

## CAT. CON-C-1 (INDEX 1)

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MICRO SATA 7+9+7 PIN CONNECTOR-----	C0918
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SAS 32 PIN CONNECTOR-----	C0959
MINI SAS 36 PIN CONNECTOR-----	C0961~C0964

## CAT. CON-C-1 (INDEX 2)

### DESCRIPTION

### PAGE

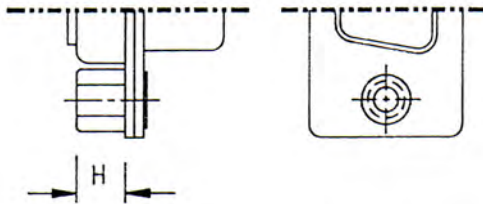
#### ACCESSORIES

PLASTIC HOOD FOR D-SUB. & CENTRONIC CONNECTOR-----	C0971~C0976
METAL HOOD FOR D-SUB. & CENTRONIC CONNECTOR-----	C0977~C0984
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DUST COVER-----	C0989
METAL BRACKET FOR D-SUB. CONNECTOR-----	C0990~C0991
THUMBS SCREWS-----	C0992

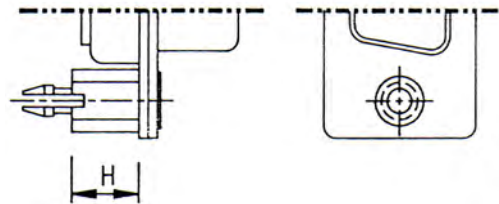
- TECHNICAL ALTERATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
- ALL ARTICLES ARE RoHS & REACH/SVHC COMPLIANT.

## MOUNTING OPTION FOR D-SUB. SOLDER, CRIMP & STRAIGHT PCB MOUNT TYPE

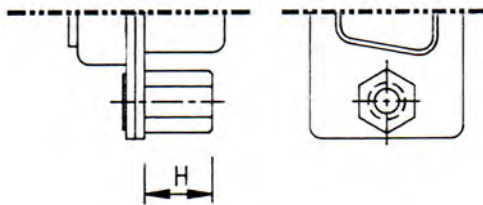
OPTION K (H= 4.0MM)  
 OPTION K3 (H= 3.2MM)  
 OPTION K6 (H= 5.8MM)  
 WITH #4-40 THREADED  
 RIVETED CLINCH NUTS



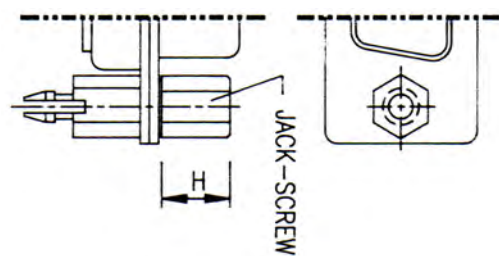
OPTION BR  
 WITH #4-40 THREADED  
 RIVETED BRACKETS



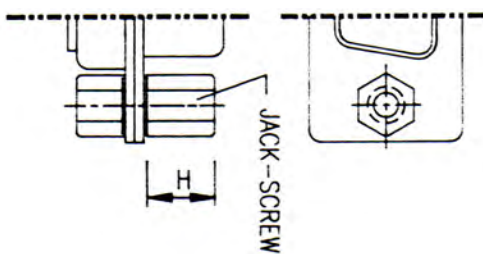
OPTION J (NON-THROUGH HOLE H= 5.8MM)  
 OPTION J4 (H= 4.0MM)  
 OPTION JT (THROUGH HOLE)  
 WITH #4-40  
 THREADED FIXED  
 JACK SCREWS (H= 5.8MM or 4.0MM)



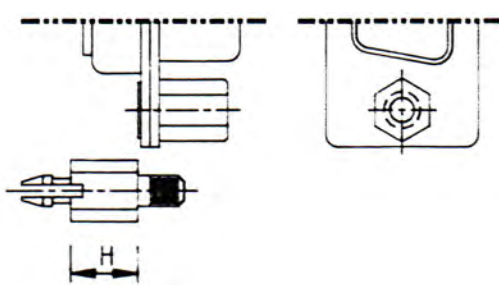
OPTION BRJ  
 WITH #4-40 THREADED  
 RIVETED BRACKET  
 AND JACKSCREWS  
 ASSEMBLED TO CONNECTOR



OPTION KJ  
 WITH #4-40 THREADED  
 RIVETED CLINCH NUTS  
 AND JACK SCREWS  
 ASSEMBLED TO CONNECTOR



OPTION JBR  
 WITH #4-40 THREADED RIVETED  
 NUTS AND BRACKETS  
 ASSEMBLED TO CONNECTOR



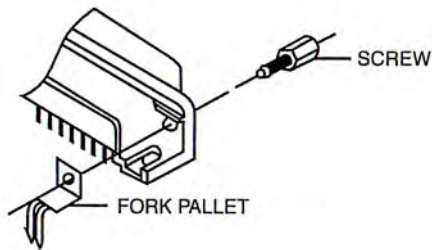
### ORDERING INFORMATION:

1. FOR SOLDER TYPE: OPTION K, K3, K6, J, JT, KJ, J4
2. FOR CRIMP TYPE: OPTION J, JT, J4
3. FOR STRAIGHT PCB TYPE: ALL MOUNTING OPTIONS

## MOUNTING OPTIONS FOR D-SUB. CONNECTOR RIGHT ANGLE TYPE

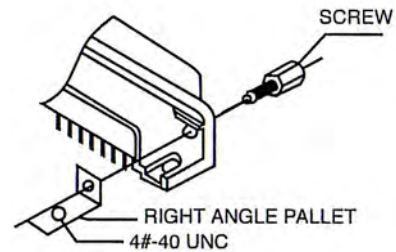
### STANDARD (BLANK):

Boardlocks assembled by  
#4-40UNC Hex Screw Bolts



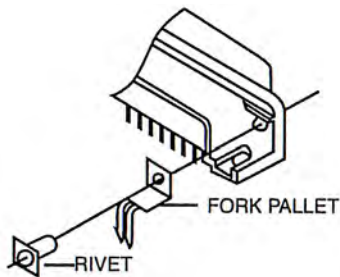
### OPTION NA:

L-shape Tabs assembled by  
#4-40UNC Hex Screw Bolts



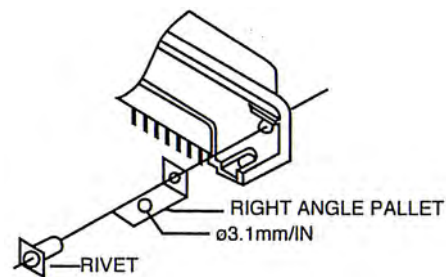
### OPTION N:

Riveted Boardlocks  
with #4-40UNC Open



### OPTION NB:

Riveted L-shape Tabs  
with #4-40UNC Open

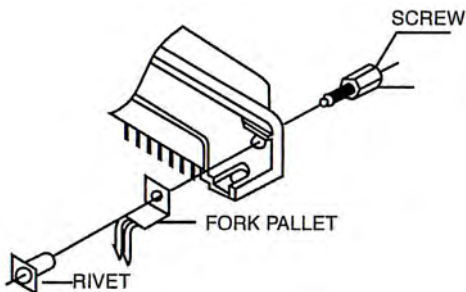


### OPTION NJ:

Riveted Boardlocks with  
Assembled #4-40UNC Hex Screw Bolts

### OPTION NH:

Riveted Boardlocks with  
Loose #4-40UNC Hex Screw Bolts

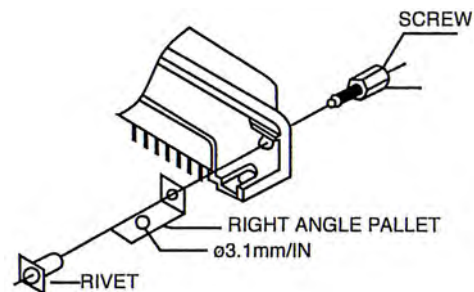


### OPTION NK:

Riveted L-shape Tabs with  
Assembled #4-40UNC Hex Screw Bolts

### OPTION NL:

Riveted L-shape Tabs with  
Loose #4-40UNC Hex Screw Bolts



## ORDERING INFORMATION:

FOR EXAMPLE:

STANDARD: 5262-25TB

OPTION N: 5262-25TB/N

OPTION NH: 5262-25TB/NH

OPTION NJ: 5262-25TB/NJ

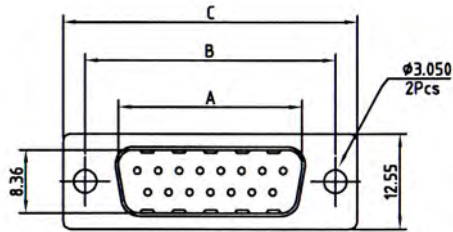
OPTION NA: 5262-25TB/NA

OPTION NB: 5262-25TB/NB

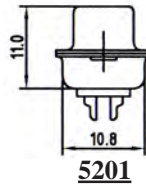
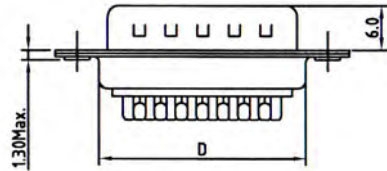
OPTION NL: 5262-25TB/NL

OPTION NK: 5262-25TB/NK

## D-SUB. CONNECTOR SOLDER TYPE



No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.92	24.99	30.81	19.23
15	25.25	33.32	39.14	27.56
25	38.96	47.04	53.04	41.28
37	55.42	63.50	69.32	57.33



**5201**

### SPECIFICATIONS

**Current Rating:** 3A or 5A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

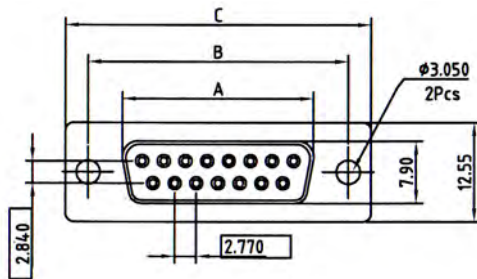
**Contact:** Brass

**Shell:** Brass, Steel

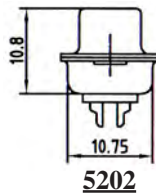
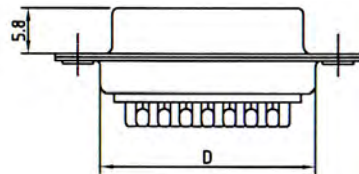
**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

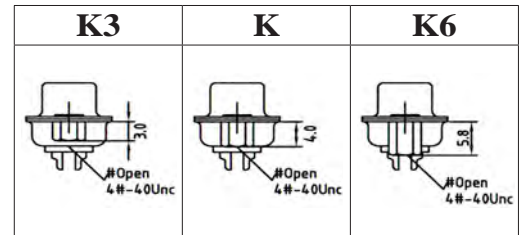
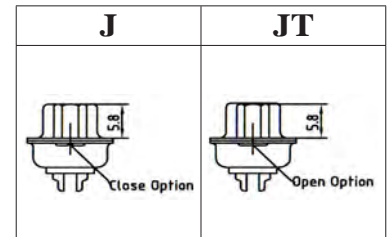
\*RoHS & REACH compliant.



No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.33	24.99	30.81	19.23
15	24.66	33.32	39.14	27.56
25	38.38	47.04	53.04	41.28
37	54.84	63.50	69.32	57.33



**5202**



## ORDERING INFORMATION:

P/N 5 2  $\frac{XX}{1}$  -  $\frac{XX}{2}$   $\frac{T}{3}$   $\frac{W}{4}$  /  $\frac{XX}{5}$

### 1. CONNECTOR TYPE:

- "01" MALE WITH FULL GOLD PLATED STAMPED CONTACTS (3A)
- "02" FEMALE WITH FULL GOLD PLATED STAMPED CONTACTS (3A)
- "05" MALE WITH SELECTIVE GOLD PLATED STAMPED CONTACTS (3A)
- "06" FEMALE WITH SELECTIVE GOLD PLATED STAMPED CONTACTS (3A)
- "07" MALE WITH FULL GOLD PLATED MACHINED CONTACTS (5A)
- "08" FEMALE WITH FULL GOLD PLATED MACHINED CONTACTS (5A)

### 2. NO. OF CONTACTS:

09, 15, 25, 37, 50

### 3. SHELL FINISH:

"T" TIN PLATED

### 4. INSULATOR COLOR:

"W" WHITE (STANDARD)

"B" BLACK

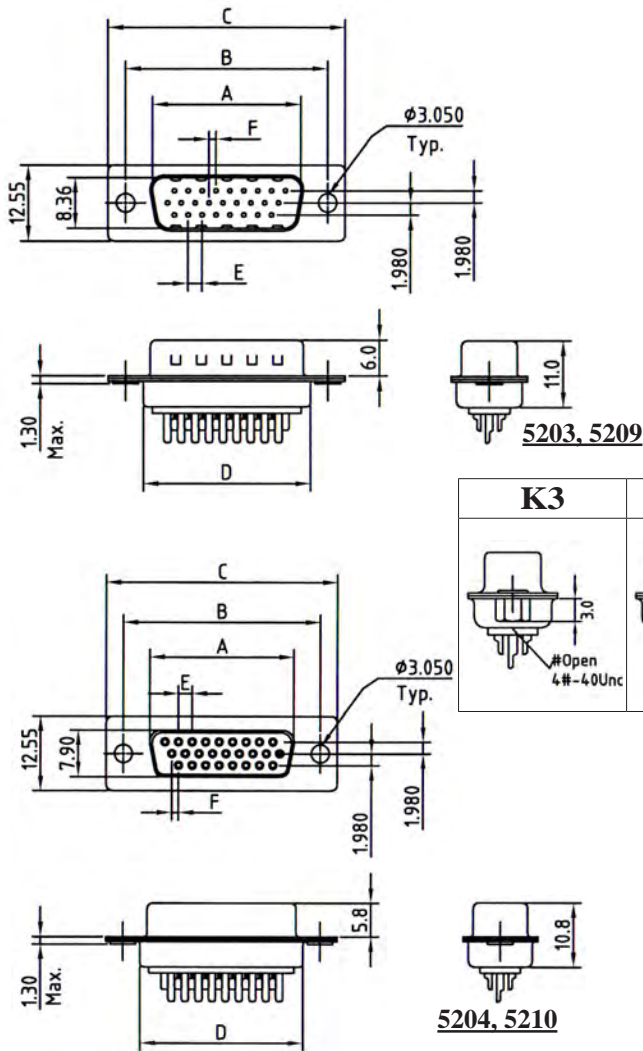
"U" BLUE

### 5. MOUNTING OPTION:

" " Ø3.05MM THROUGH HOLES

OTHERS: K, K3, K6, J, JT, J4

# D-SUB. HIGH DENSITY CONNECTOR SOLDER TYPE



## SPECIFICATIONS

**Current Rating:** 3A or 5A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.

K3	K	K6	J	JT
#Open 4#-40Unc	#Open 4#-40Unc	#Open 4#-40Unc	Close Option	Open Option

## 5203, 5209

No. of Contacts	Dimensions(mm)					
	A	B	C	D	E	F
15	16.92	24.99	30.81	19.23	2.29	1.145
26	25.25	33.32	39.14	27.56	2.29	1.145
44	38.96	47.04	53.04	41.28	2.29	1.145
62	55.42	63.50	69.32	57.33	2.41	1.205

## 5204, 5210

No. of Contacts	Dimensions(mm)					
	A	B	C	D	E	F
15	16.33	24.99	30.81	19.23	2.29	1.145
26	24.66	33.32	39.14	27.56	2.29	1.145
44	38.38	47.04	53.04	41.28	2.29	1.145
62	54.84	63.50	69.32	57.33	2.41	1.205

## ORDERING INFORMATION:

P/N 5 2  $\frac{XX}{1}$  -  $\frac{XX}{2}$   $\frac{T}{3}$   $\frac{W}{4}$  /  $\frac{XX}{5}$

### 1. CONNECTOR TYPE:

- "03" MALE WITH FULL GOLD PLATED STAMPED CONTACTS (3A)
- "04" FEMALE WITH FULL GOLD PLATED STAMPED CONTACTS (3A)
- "09" MALE WITH SELECTIVE GOLD PLATED STAMPED CONTACTS (3A)
- "10" FEMALE WITH SELECTIVE GOLD PLATED STAMPED CONTACTS (3A)
- "87" MALE WITH FULL GOLD PLATED MACHINED CONTACTS (5A)
- "88" FEMALE WITH FULL GOLD PLATED MACHINED CONTACTS (5A)

### 2. NO. OF CONTACTS:

15, 26, 44, 62, 78

### 3. SHELL FINISH:

"T" TIN PLATED

### 4. INSULATOR COLOR:

"W" WHITE (STANDARD)

"B" BLACK

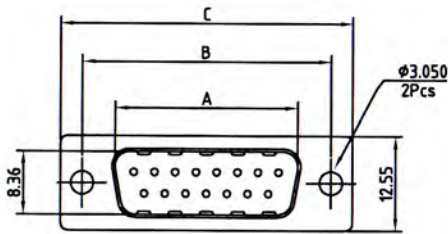
"U" BLUE

### 5. MOUNTING OPTION:

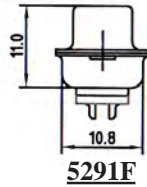
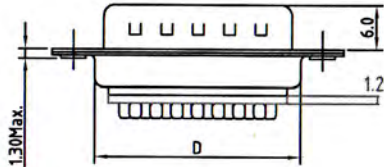
" " Ø3.05MM THROUGH HOLES

OTHERS: K, K3, K6, J, JT, J4

## D-SUB. CONNECTOR SOLDER TYPE WITH FERRITE (EMI)



No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.92	24.99	30.81	19.23
15	25.25	33.32	39.14	27.56
25	38.96	47.04	53.04	41.28
37	55.42	63.50	69.32	57.33



### SPECIFICATIONS

**Current Rating:** 3A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

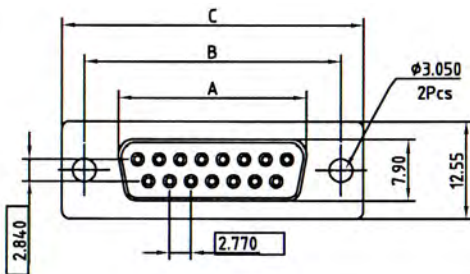
**Contact:** Brass

**Shell:** Brass, Steel

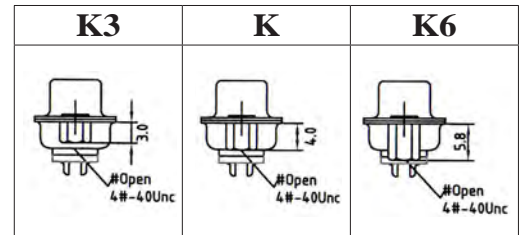
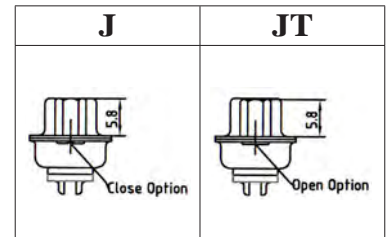
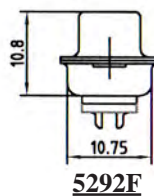
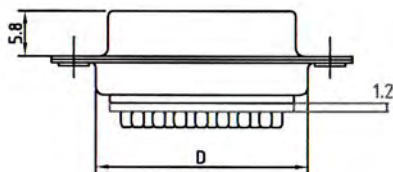
**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.



No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.33	24.99	30.81	19.23
15	24.66	33.32	39.14	27.56
25	38.38	47.04	53.04	41.28
37	54.84	63.50	69.32	57.33



### ORDERING INFORMATION:

P/N 5 2  $\frac{XX}{1}$  F -  $\frac{XX}{2}$  T B /  $\frac{XX}{3}$

1. CONNECTOR TYPE:

"91" MALE

"92" FEMALE

2. NO. OF CONTACTS:

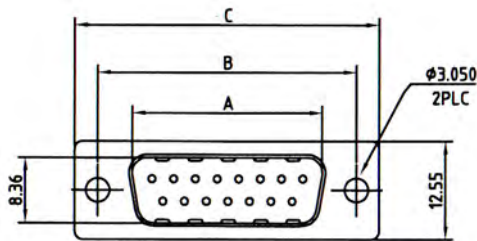
09, 15, 25, 37

3. MOUNTING OPTION:

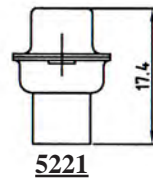
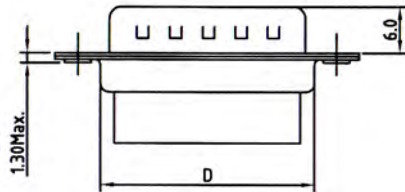
" " Ø3.05MM THROUGH HOLES

OTHERS: K, K3, K6, J, JT, J4

## D-SUB. CONNECTOR CRIMP TYPE TERMINAL & HOUSING



No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.92	24.99	30.81	19.23
15	25.25	33.32	39.14	27.56
25	38.96	47.04	53.04	41.28
37	55.42	63.50	69.32	57.33



### SPECIFICATIONS

**Current Rating:** 3A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

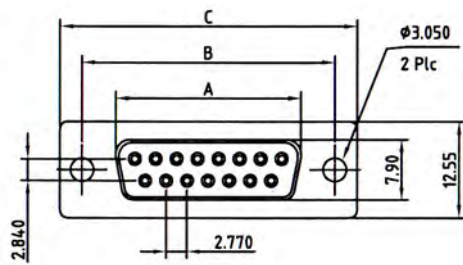
**Contact:** Brass

**Shell:** Brass, Steel

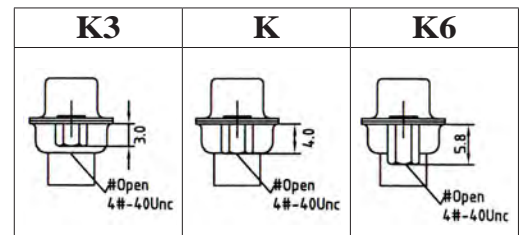
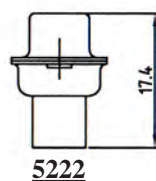
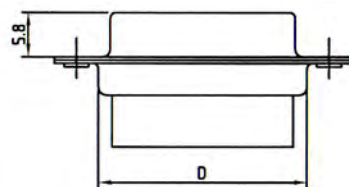
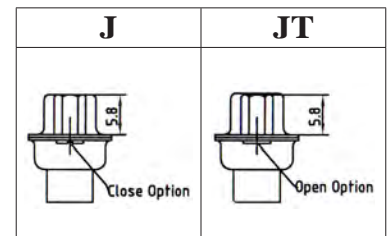
**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.



No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.33	24.99	30.81	19.23
15	24.66	33.32	39.14	27.56
25	38.38	47.04	53.04	41.28
37	54.84	63.50	69.32	57.33



### ORDERING INFORMATION:

P/N 5 2  $\frac{xx}{1}$  -  $\frac{xx}{2}$  T B /  $\frac{xx}{3}$

**1. CONNECTOR TYPE:**

"21" MALE

"22" FEMALE

**2. NO. OF CONTACTS:**

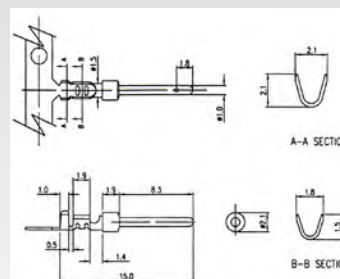
09, 15, 25, 37, 50

**3. MOUNTING OPTION:**

" " Ø3.05MM THROUGH HOLES

OTHERS: K, K3, K6, J, JT, J4

NOTE: CRIMPING TOOL P/N HT-213  
INSERTION & EXTRACTION  
TOOL P/N HT-101



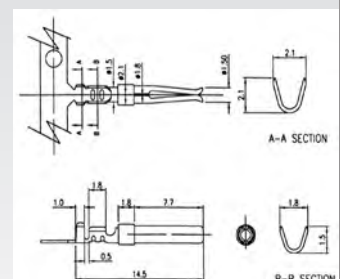
**MALE TERMINAL:**

5221-01 (per piece)

5221-0.5K (500pcs/Reel)

5221-10K (10000pcs/Reel)

FOR AWG24-26



**FEMALE TERMINAL:**

5222-01 (per piece)

5222-0.5K (500pcs/Reel)

5222-10K (10000pcs/Reel)

FOR AWG24-26

NOTE: P/N 5221-xxx/2024 & 5222-xxx/2024  
FOR AWG20~24



## D-SUB. 9 PIN FEMALE CONNECTOR SET CRIMP & ASSEMBLY TYPE

### SPECIFICATIONS

**Rating:** 100V AC Max or 12V DC 2A Max

**Insulation Resistance:** 500M OHMS Min at 250V DC

**Withstanding:** 250V AC at 1 Minute

### MATERIALS

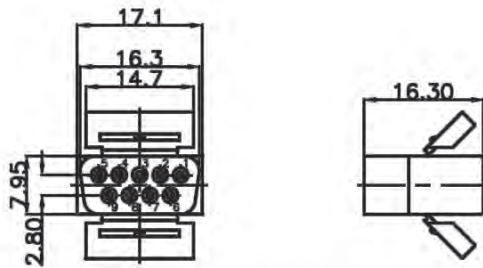
**Housing:** Nylon 66

**Plastic Cover:** Nylon 66

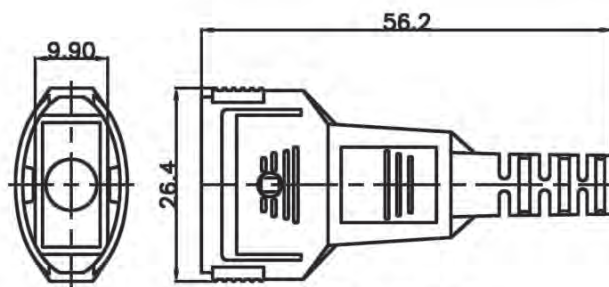
**Contacts:** Phosphor Bronze

**Plating:** Gold Flash Plated

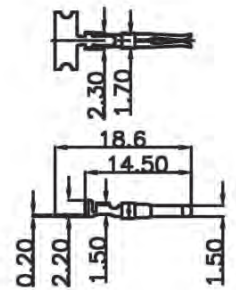
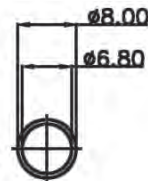
**\*RoHS & REACH compliant.**



HOUSING



PLASTIC COVER



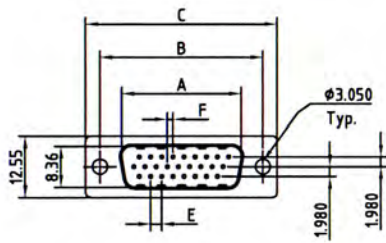
CRIMP TERMINAL

### ORDERING INFORMATION:

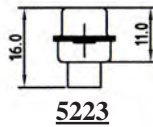
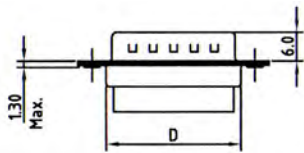
#### P/N 5 2 2 2 - 0 9 A S S Y

ONE SET INCLUDING ONE 9 PIN BLACK FEMALE HOUSING,  
9 PCS CRIMP TERMINALS & ONE BLACK PLASTIC COVER

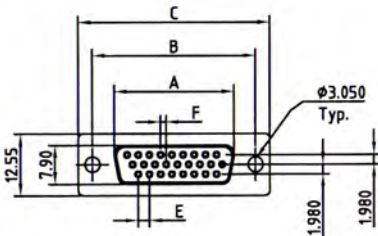
# D-SUB. HIGH DENSITY CONNECTOR CRIMP TYPE TERMINAL & HOUSING



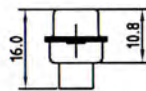
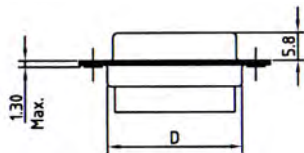
No. of Contacts	Dimensions(mm)					
	A	B	C	D	E	F
15	16.92	24.99	30.81	19.23	2.29	1.145
26	25.25	33.32	39.14	27.56	2.29	1.145
44	38.96	47.04	53.04	41.28	2.29	1.145
62	55.42	63.50	69.32	57.33	2.41	1.205



**5223**



No. of Contacts	Dimensions(mm)					
	A	B	C	D	E	F
09	16.33	24.99	30.81	19.23	2.29	1.145
15	24.66	33.32	39.14	27.56	2.29	1.145
25	38.38	47.04	53.04	41.28	2.29	1.145
37	54.84	63.50	69.32	57.33	2.41	1.205



**5224**

## SPECIFICATIONS

**Current Rating:** 3A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated

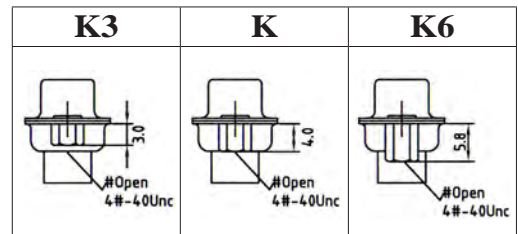
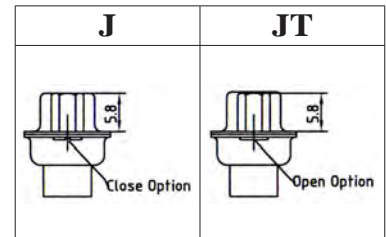
**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.

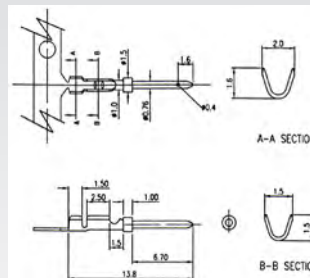


## ORDERING INFORMATION:

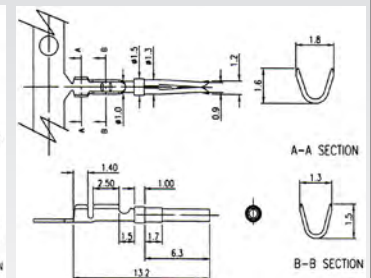
P/N 5 2  $\frac{XX}{1}$  -  $\frac{XX}{2}$  T B /  $\frac{XX}{3}$

- CONNECTOR TYPE:  
"23" MALE  
"24" FEMALE
- NO. OF CONTACTS:  
15, 26, 44, 62, 78
- MOUNTING OPTION:  
" " Ø3.05MM THROUGH HOLES  
OTHERS: K, K3, K6, J, JT

NOTE: CRIMPING TOOL P/N HT-213  
INSERTION & EXTRACTION  
TOOL P/N HT-101

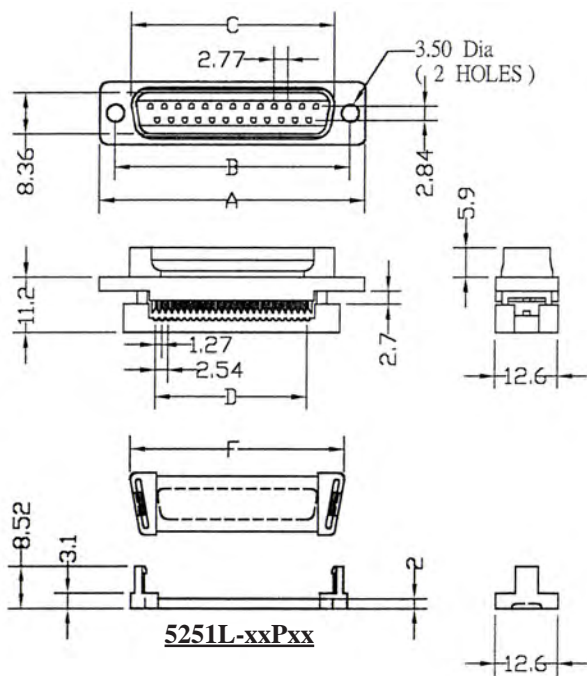


**MALE TERMINAL:**  
5223-01 (per piece)  
5223-0.5K (500pcs/Reel)  
5223-10K (10000pcs/Reel)  
FOR AWG26-28

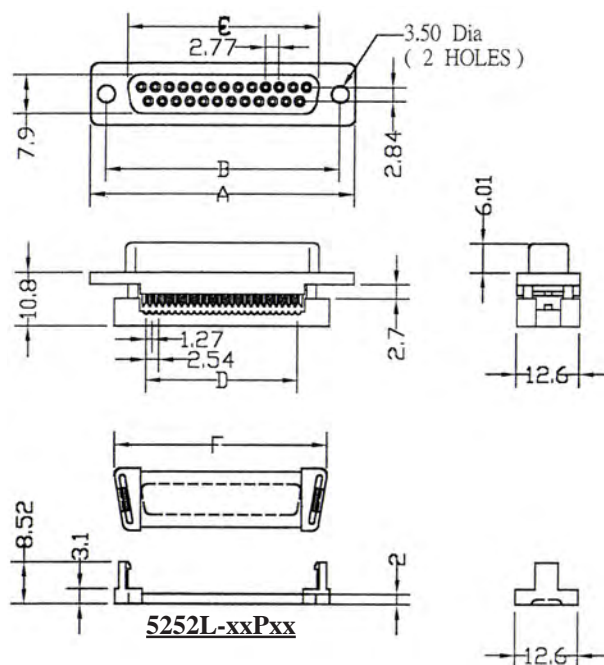


**FEMALE TERMINAL:**  
5224-01 (per piece)  
5224-0.5K (500pcs/Reel)  
5224-10K (10000pcs/Reel)  
FOR AWG26-28

## LOW PROFILE D-SUB. CONNECTOR ALL PLASTIC I.D.C. TYPE



No. of Contacts	Dimensions(mm)					
	A	B	C	D	E	F
09	30.89	24.99	16.92	10.16	16.33	21.78
15	39.14	33.32	25.25	17.78	24.66	29.62
25	53.09	47.04	38.96	30.48	38.38	43.35
37	69.39	63.50	55.45	45.72	54.84	59.92



### SPECIFICATIONS

**Current Rating:** 3A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N 5 2  $\frac{xx}{1}$  L -  $\frac{xx}{2}$  P  $\frac{xx}{34}$

1. CONNECTOR TYPE:

"51" MALE

"52" FEMALE

2. NO. OF CONTACTS:

09, 15, 25, 37

3. INSULATOR COLOR:

"B" BLACK (STANDARD)

"U" BLUE (STANDARD)

"A" GRAY (OPTIONAL)

"N" DARK GREEN (OPTIONAL)

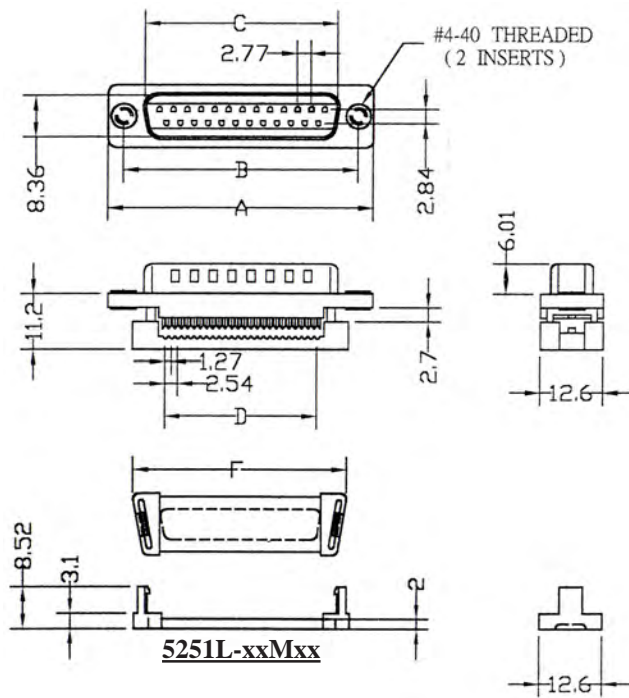
"R" DARK RED (OPTIONAL)

4. MOUNTING TYPE:

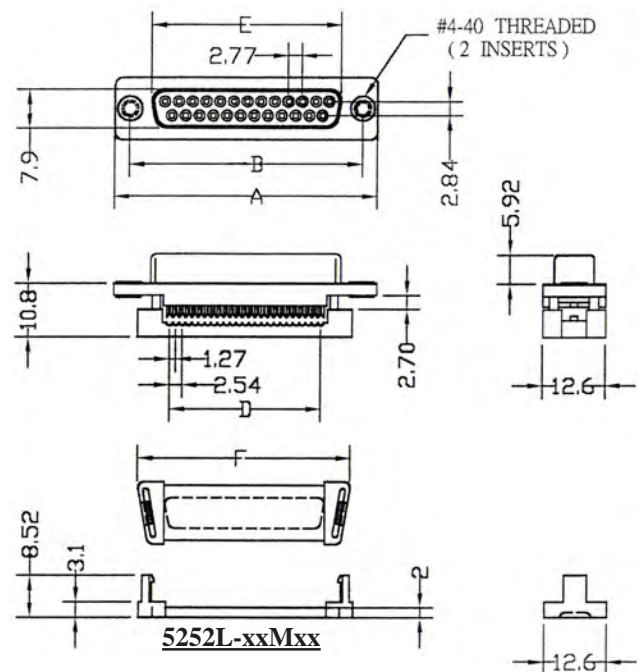
"0" Ø3.50MM THROUGH HOLES



# LOW PROFILE D-SUB. CONNECTOR I.D.C. TYPE WITH METAL SHELL & THREADED INSERTS



No. of Contacts	Dimensions(mm)					
	A	B	C	D	E	F
09	30.89	24.99	16.92	10.16	16.33	21.78
15	39.14	33.32	25.25	17.78	24.66	29.62
25	53.09	47.04	38.96	30.48	38.38	43.35
37	69.39	63.50	55.45	45.72	54.84	59.92



## SPECIFICATIONS

**Current Rating:** 3A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5 2  $\frac{xx}{1}$  L -  $\frac{xx}{2}$  M  $\frac{xx}{34}$

### 1. CONNECTOR TYPE:

"51" MALE

"52" FEMALE

### 2. NO. OF CONTACTS:

09, 15, 25, 37

### 3. INSULATOR COLOR:

"B" BLACK (STANDARD)

"U" BLUE (STANDARD)

"A" GRAY (OPTIONAL)

"N" DARK GREEN (OPTIONAL)

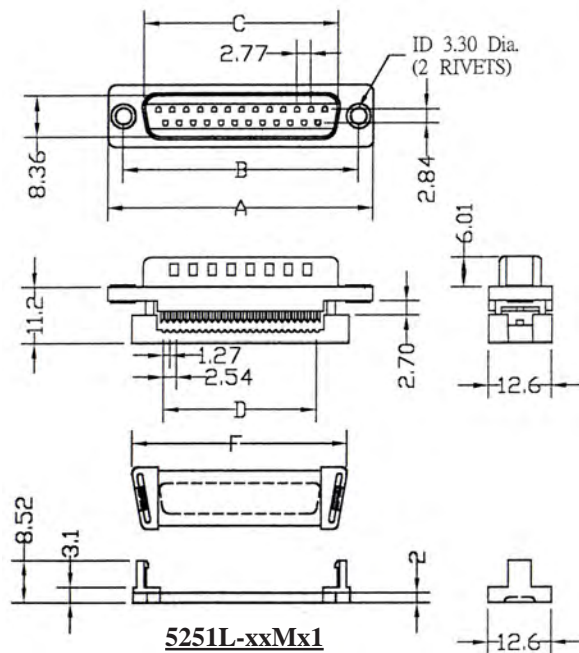
"R" DARK RED (OPTIONAL)

### 4. MOUNTING TYPE:

"N" UNC4-40 THREADED INSERTS

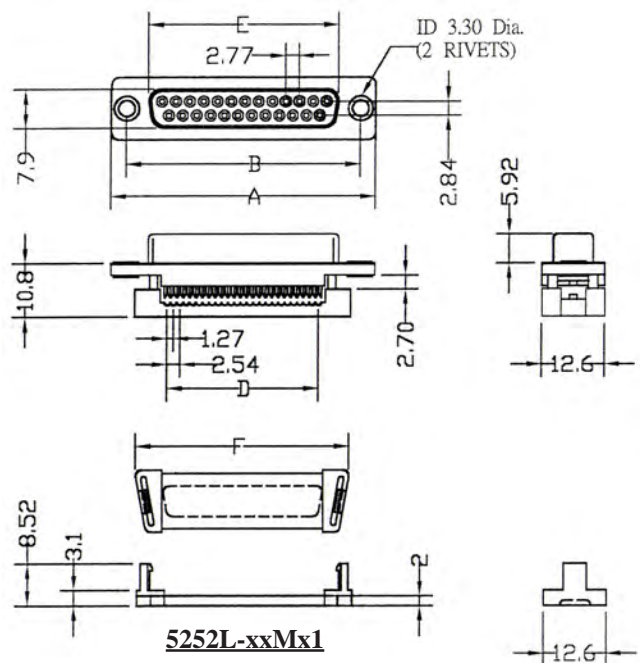
"3" M3\*0.5 THREADED INSERTS

## LOW PROFILE D-SUB. CONNECTOR I.D.C. TYPE WITH METAL SHELL & THROUGH HOLES



**5251L-xxMx1**

No. of Contacts	Dimensions(mm)					
	A	B	C	D	E	F
09	30.89	24.99	16.92	10.16	16.33	21.78
15	39.14	33.32	25.25	17.78	24.66	29.62
25	53.09	47.04	38.96	30.48	38.38	43.35
37	69.39	63.50	55.45	45.72	54.84	59.92



**5252L-xxMx1**

### SPECIFICATIONS

**Current Rating:** 3.0 Ampere

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N 5 2  $\frac{xx}{1}$  L -  $\frac{xx}{2}$  M  $\frac{x}{3}$   $\frac{1}{4}$

#### 1. CONNECTOR TYPE:

"51" MALE

"52" FEMALE

#### 2. NO. OF CONTACTS:

09, 15, 25, 37

#### 3. INSULATOR COLOR:

"B" BLACK (STANDARD)

"U" BLUE (STANDARD)

"A" GRAY (OPTIONAL)

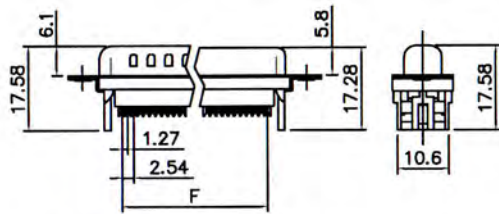
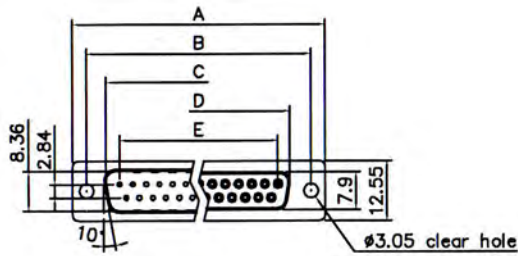
"N" DARK GREEN (OPTIONAL)

"R" DARK RED (OPTIONAL)

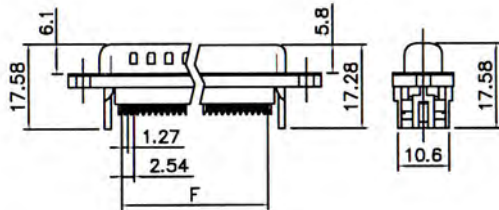
#### 4. MOUNTING TYPE:

"1" Ø3.30MM RIVETED THROUGH HOLES

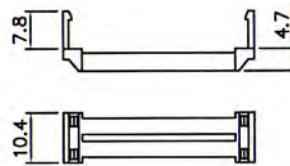
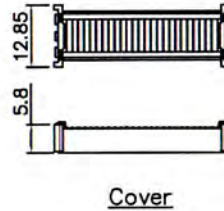
## D-SUB. CONNECTOR I.D.C. TYPE FOR FLAT CABLE ASSEMBLY



Without Insulator Support "0"



With Insulator Support "3" & "4"



Strain Relief

### SPECIFICATIONS

**Current Rating:** 3.0 Ampere  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
 \*RoHS & REACH compliant.

No. of Contacts	Dimensions(mm)					
	A	B	C	D	E	F
09	30.81	24.99	16.92	16.33	11.08	10.16
15	39.14	33.32	25.50	24.66	19.39	17.78
25	53.04	47.04	38.96	38.38	33.24	30.48
37	69.32	63.50	55.42	54.84	49.86	45.72

### ORDERING INFORMATION:

P/N 5 2  $\frac{XX}{1}$  -  $\frac{XXXX}{2345}$

#### 1. CONNECTOR TYPE:

"97" MALE  
 "98" FEMALE

#### 2. NO. OF CONTACTS:

09, 15, 25, 37

#### 3. SHELL TYPE:

"P" ALL PLASTIC TYPE  
 "M" METAL SHELL TYPE

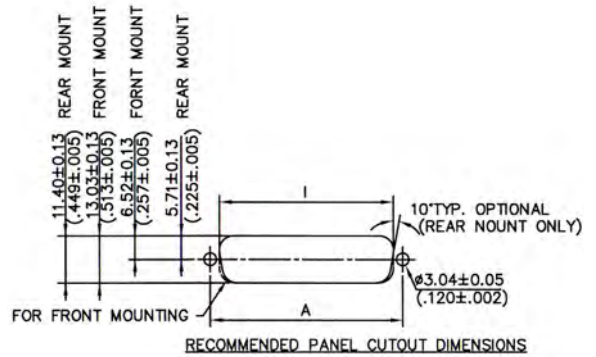
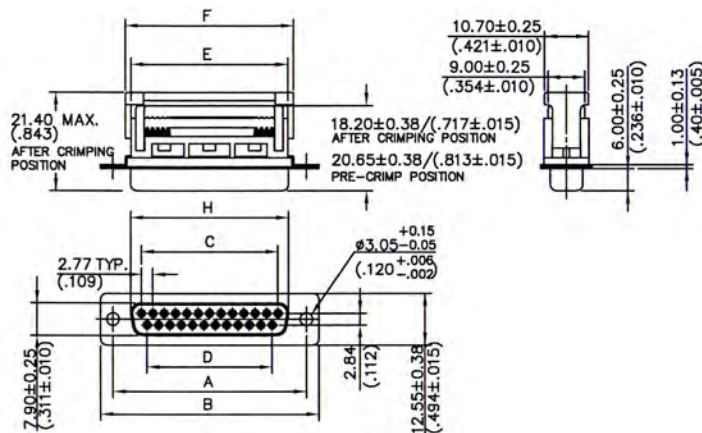
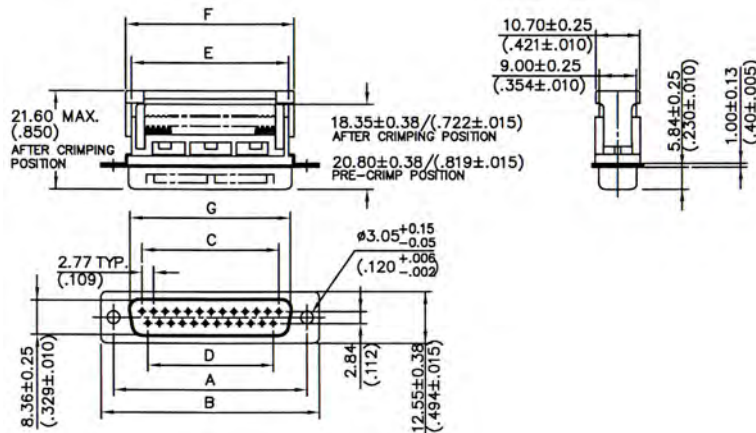
#### 4. INSULATOR COLOR:

"B" BLACK (STANDARD)  
 "U" BLUE

#### 5. MOUNTING OPTION:

"0" Ø3.05MM THROUGH HOLES  
 "4" UNC4-40 THREADED INSERT  
 "3" M3 THREADED INSERT

## D-SUB. MALE CONNECTOR WITH METAL SHELL I.D.C. TYPE



### SPECIFICATIONS

**Current Rating:** 3A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.

No. of Contacts	Dimensions(mm)									
	A±0.13	B±0.25	C±0.13	D±0.13	E±0.25	F±0.25	G±0.25	H±0.25	I±0.13 REAR MOUNTING	I±0.13 FRONT MOUNTING
09	24.99	30.80	11.08	8.31	16.10	18.60	16.92	16.33	20.47	22.20
15	33.32	39.10	19.39	16.62	24.00	26.60	25.25	24.66	28.80	30.53
25	47.04	53.09	33.24	30.47	38.14	40.90	38.96	38.38	42.52	44.27
37	63.50	69.40	49.86	47.09	54.60	57.10	55.45	54.84	59.08	60.73

### ORDERING INFORMATION:

P/N 5 2 1 3 -  $\frac{X X X X X}{1 2 3 4}$

1. NO. OF CONTACTS:

09, 15, 25, 37

2. HOUSING CONSTRUCTION TYPE:

"C" STANDARD THROUGH HOLES

"D" UNC4-40 THREADED INSERTS

3. STRAIN RELIEF TYPE:

"P" PLASTIC STRAIN RELIEF

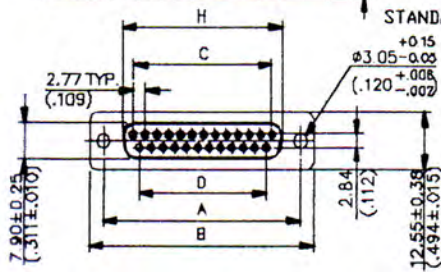
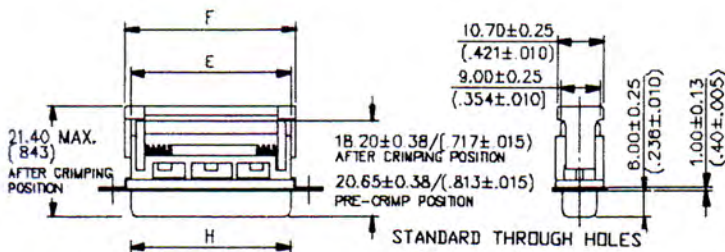
"S" STEEL STRAIN RELIEF

4. HOUSING COLOR:

" " BLUE (STANDARD)

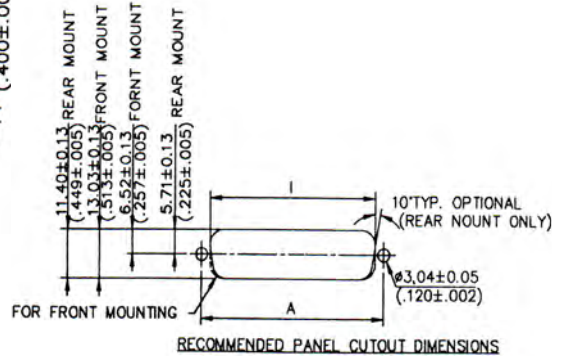
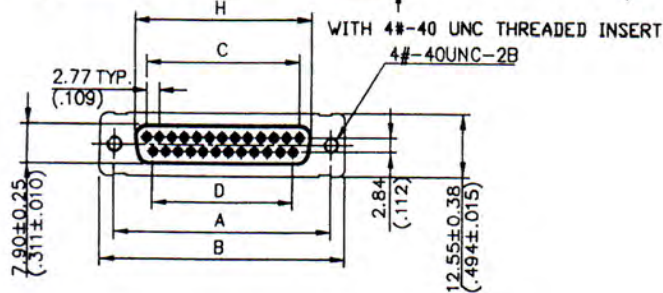
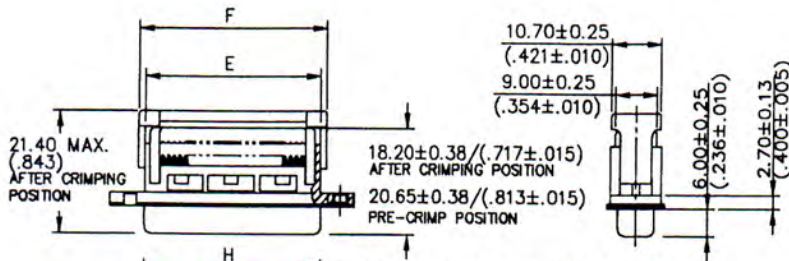
"B" BLACK

# D-SUB. FEMALE CONNECTOR WITH METAL SHELL I.D.C. TYPE



## 5214

No. of Contacts	Dimensions(mm)								
	A ±0.13	B ±0.25	C ±0.13	D ±0.13	E ±0.25	F ±0.25	H ±0.25	I ±0.13	J ±0.13
09	24.99	30.80	11.08	8.31	16.10	18.60	16.33	20.47	22.20
15	33.32	39.10	33.24	16.62	24.00	26.60	24.66	42.52	30.53
25	47.04	53.09	19.39	30.47	38.14	40.90	38.38	28.80	44.27
37	63.50	69.40	11.08	47.09	54.60	57.10	54.84	20.47	60.73



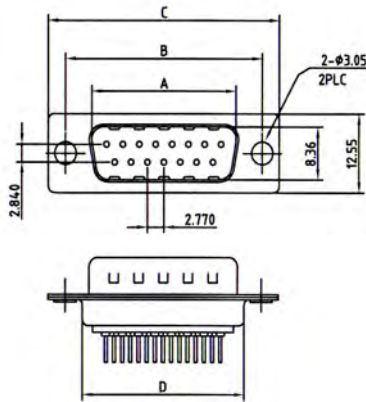
## ORDERING INFORMATION:

P/N 5 2 1 4 -  $\frac{x x x x x}{T 2 3 4}$

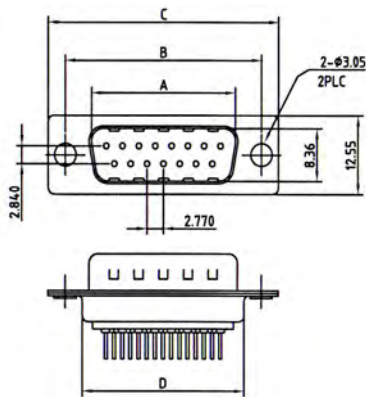
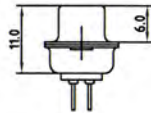
- NO. OF CONTACTS:  
09, 15, 25, 37
- HOUSING CONSTRUCTION TYPE:  
"C" STANDARD THROUGH HOLES  
"D" UNC4-40 THREADED INSERTS
- STRAIN RELIEF TYPE:  
"P" PLASTIC STRAIN RELIEF  
"S" STEEL STRAIN RELIEF
- HOUSING COLOR:  
" " BLUE(STANDARD)  
"B" BLACK



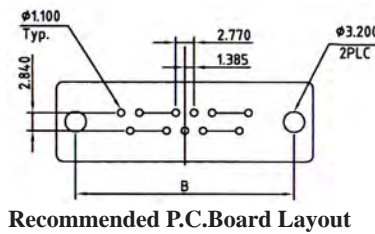
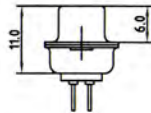
## D-SUB. CONNECTOR STRAIGHT PCB MOUNT TYPE



**5231, 5233, 5235**



**5232, 5234, 5236**



Recommended P.C.Board Layout

### SPECIFICATIONS

**Current Rating:** 3A or 5A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.

**5231, 5233, 5235**

No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.92	24.99	30.81	19.23
15	25.25	33.32	39.14	27.56
25	38.96	47.04	53.04	41.28
37	55.42	63.50	69.32	57.33

**5232, 5234, 5236**

No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.33	24.99	30.81	19.23
15	24.66	33.32	39.14	27.56
25	38.38	47.04	53.04	41.28
37	54.84	63.50	69.32	57.33

K3	K	K6	J	JT	J4T	BR	BRJ
#Open 4#-40Unc	#Open 4#-40Unc	#Open 4#-40Unc	Close 4#-40Unc	Open 4#-40Unc	Open 4#-40Unc	4#-40Unc	4#-40Unc

### ORDERING INFORMATION:

P/N 5 2  $\frac{XX}{1}$  -  $\frac{XX}{2}$   $\frac{T}{3}$   $\frac{W}{4}$  /  $\frac{XXX}{5}$

#### 1. CONNECTOR TYPE:

- "31" MALE WITH FULL GOLD PLATED MACHINED CONTACTS (5A)
- "32" FEMALE WITH FULL GOLD PLATED MACHINED CONTACTS (5A)
- "33" MALE WITH FULL GOLD PLATED STAMPED CONTACTS (3A)
- "34" FEMALE WITH FULL GOLD PLATED STAMPED CONTACTS (3A)
- "35" MALE WITH SELECTIVE GOLD PLATED STAMPED CONTACTS (3A)
- "36" FEMALE WITH SELECTIVE GOLD PLATED STAMPED CONTACTS (3A)

#### 2. NO. OF CONTACTS:

09, 15, 25, 37, 50

#### 3. SHELL FINISH:

"T" TIN PLATED

#### 4. INSULATOR COLOR:

"W" WHITE (STANDARD)

"B" BLACK

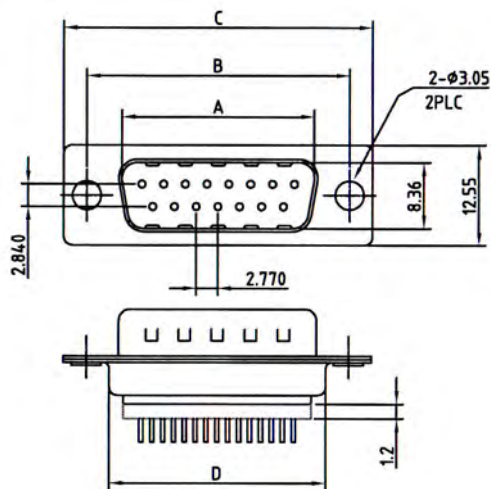
"U" BLUE

#### 5. MOUNTING OPTION:

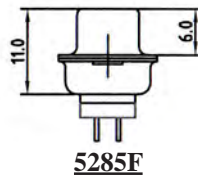
" " Ø3.05MM THROUGH HOLES

OTHERS: K, K3, K6, J, JT, J4T, BR, BRJ

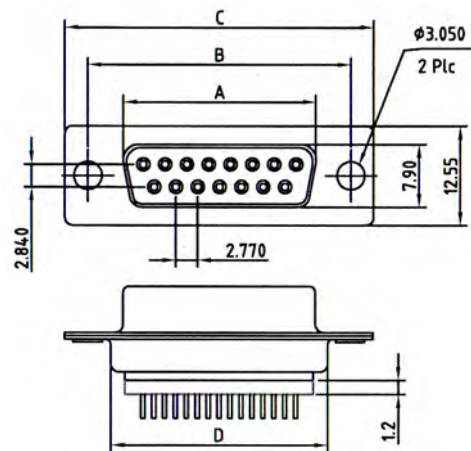
# D-SUB. CONNECTOR WITH STAMPED CONTACTS STRAIGHT PCB TYPE WITH FERRITE (EMI)



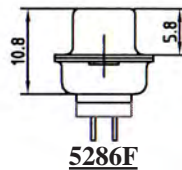
No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.92	24.99	30.81	19.23
15	25.25	33.32	39.14	27.56
25	38.96	47.04	53.04	41.28
37	55.42	63.50	69.32	57.33



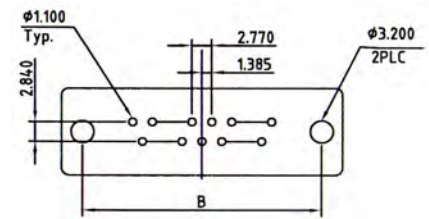
**5285F**



No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.33	24.99	30.81	19.23
15	24.66	33.32	39.14	27.56
25	38.38	47.04	53.04	41.28
37	54.84	63.50	69.32	57.33



**5286F**



**Recommended P.C.Board Layout**

K3	K	K6	J	JT	J4T	BR	BRJ
#Open 4#-40Unc	#Open 4#-40Unc	#Open 4#-40Unc	Close 4#-40Unc	Open 4#-40Unc	Open 4#-40Unc	4#-40Unc	4#-40Unc

## ORDERING INFORMATION:

P/N 5 2  $\frac{x}{1}$   $\frac{x}{2}$  F -  $\frac{x}{2}$  T B /  $\frac{x}{3}$

- CONNECTOR TYPE:  
"85" MALE  
"86" FEMALE
- NO. OF CONTACTS:  
09, 15, 25, 37, 50
- MOUNTING OPTION:  
" " Ø3.05MM THROUGH HOLES  
OTHERS: K, K3, K6, J, JT, J4T, BR, BRJ

## SPECIFICATIONS

**Current Rating:** 3A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

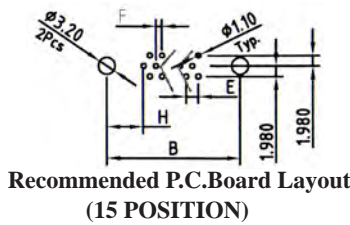
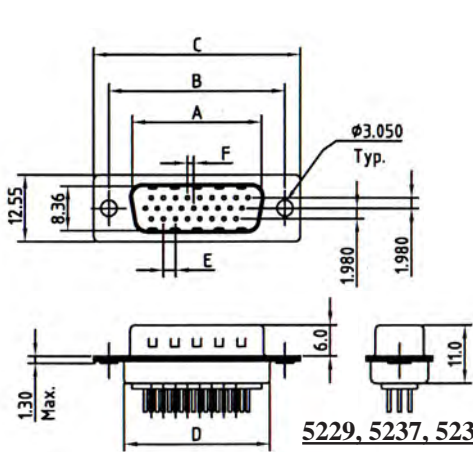
**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.

# D-SUB. HIGH DENSITY CONNECTOR STRAIGHT PCB MOUNT TYPE



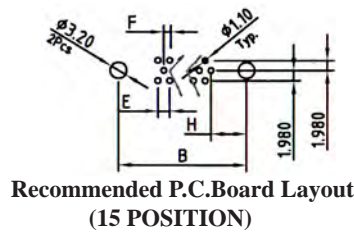
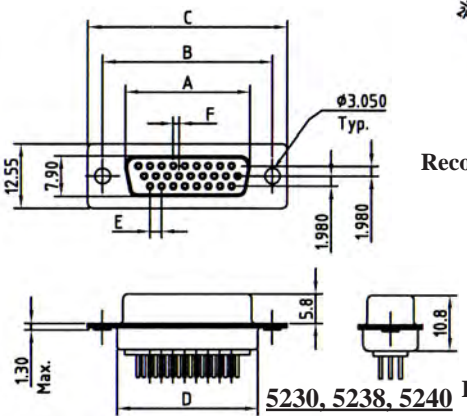
Recommended P.C.Board Layout  
(26, 44, 62 POSITION)

## SPECIFICATIONS

**Current Rating:** 3A or 5A  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
 \*RoHS & REACH compliant.



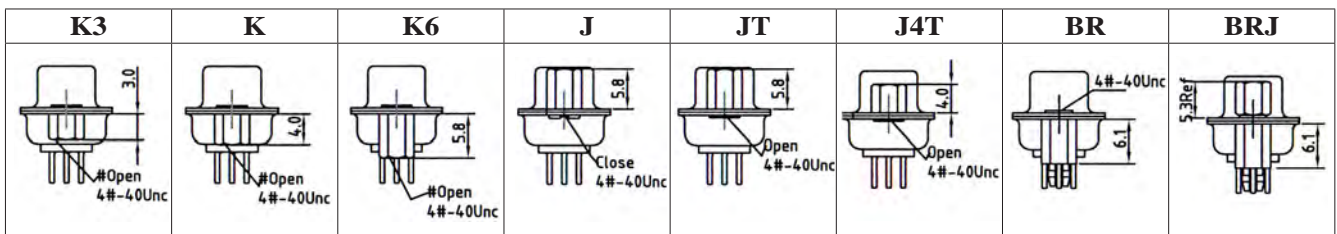
Recommended P.C.Board Layout  
(26, 44, 62 POSITION)

### 5229, 5237, 5239

No. of Contacts	Dimensions(mm)						
	A	B	C	D	E	F	H
15	16.92	24.99	30.81	19.23	2.29	1.145	7.04
26	25.25	33.32	39.14	27.56	2.29	1.145	6.88
44	38.96	47.04	53.04	41.28	2.29	1.145	6.88
62	55.42	63.50	69.32	57.33	2.41	1.205	7.00

### 5230, 5238, 5240

No. of Contacts	Dimensions(mm)						
	A	B	C	D	E	F	H
15	16.33	24.99	30.81	19.23	2.29	1.145	7.04
26	24.66	33.32	39.14	27.56	2.29	1.145	6.88
44	38.38	47.04	53.04	41.28	2.29	1.145	6.88
62	54.84	63.50	69.32	57.33	2.41	1.205	7.00



## ORDERING INFORMATION:

P/N 5 2  $\frac{XX}{1}$  -  $\frac{XX}{2}$   $\frac{T}{3}$   $\frac{W}{4}$  /  $\frac{XXX}{5}$

### 1. CONNECTOR TYPE:

- "29" MALE WITH SELECTIVE GOLD PLATED STAMPED CONTACTS (3A)
- "30" FEMALE WITH SELECTIVE GOLD PLATED STAMPED CONTACTS (3A)
- "37" MALE WITH FULL GOLD PLATED MACHINED CONTACTS (5A)
- "38" FEMALE WITH FULL GOLD PLATED MACHINED CONTACTS (5A)
- "39" MALE WITH FULL GOLD PLATED STAMPED CONTACTS (3A)
- "40" FEMALE WITH FULL GOLD PLATED STAMPED CONTACTS (3A)

### 2. NO. OF CONTACTS:

15, 26, 44, 62, 78

### 3. SHELL FINISH:

"T" TIN PLATED

### 4. INSULATOR COLOR:

"W" WHITE (STANDARD)

"B" BLACK

"U" BLUE

### 5. MOUNTING OPTION:

" " Ø3.05MM THROUGH HOLES

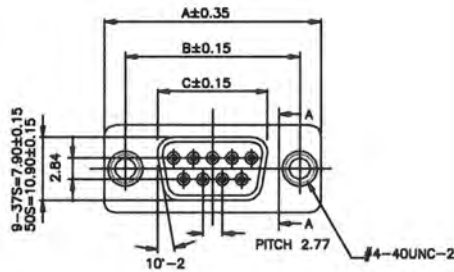
OTHERS: K, K3, K6, J, JT, J4T, BR, BRJ



# D-SUB. CONNECTOR WITH STAMPED PINS HIGH PROFILE STRAIGHT PCB MOUNT TYPE

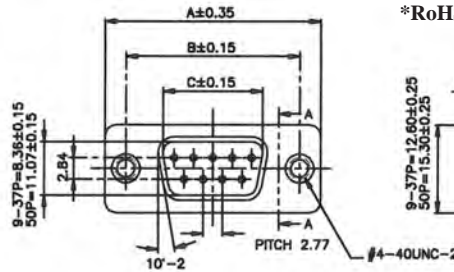
## 5294

No. of Contacts	Dimensions(mm)				
	A	B	C	D	T
09	30.80	24.99	16.34	19.20	
15	39.15	33.32	24.70	27.70	3.6
25	53.00	47.04	38.40	41.10	4.8
37	69.30	63.50	54.80	57.30	5.4
50	67.60	61.00	52.20	55.10	7.2



## 5293

No. of Contacts	Dimensions(mm)				
	A	B	C	D	T
09	30.80	24.99	16.34	19.20	
15	39.15	33.32	24.70	27.70	3.6
25	53.00	47.04	38.40	41.10	4.8
37	69.30	63.50	54.80	57.30	5.4
50	67.60	61.00	52.20	55.10	7.2



## SPECIFICATIONS

**Current Rating:** 3A

**Contact Resistance:** 15mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 500V at 1 Minute

**Operating Temperature:** -50°C to +100°C

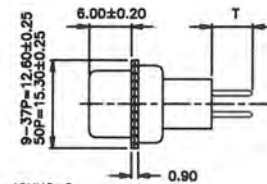
**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass, Stamped-Pin

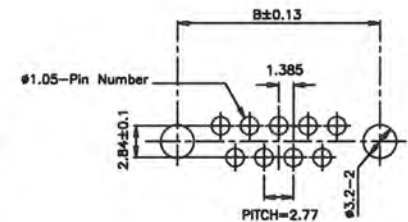
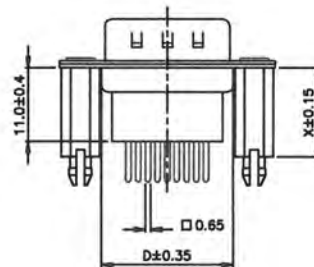
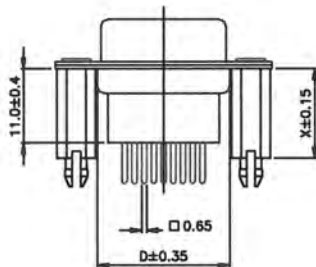
Selective Gold Plated

**Shell:** Steel, Tin Plated

\*RoHS & REACH compliant.



SECTION: A-A



Recommended P.C.Board Layout

## ORDERING INFORMATION:

P/N 5 2  $\frac{XX}{1}$  -  $\frac{XXX}{23}$  /  $\frac{XXXXXX}{45}$

### 1. CONNECTOR TYPE:

"93" MALE WITH STAMPED PINS

"94" FEMALE WITH STAMPED PINS

### 2. NO. OF CONTACTS:

09, 15, 25, 37, 50

### 3. PIN LATCH & CONTACT TYPE:

"N" T=3.6MM FOR FEMALE & MALE

"Q" T=5.4MM FOR FEMALE & MALE

"R" T=7.2MM FOR FEMALE & MALE

"S" T=4.8MM FOR FEMALE & MALE

### 4. MOUNTING OPTION:

" " Ø3.05MM THROUGH HOLES

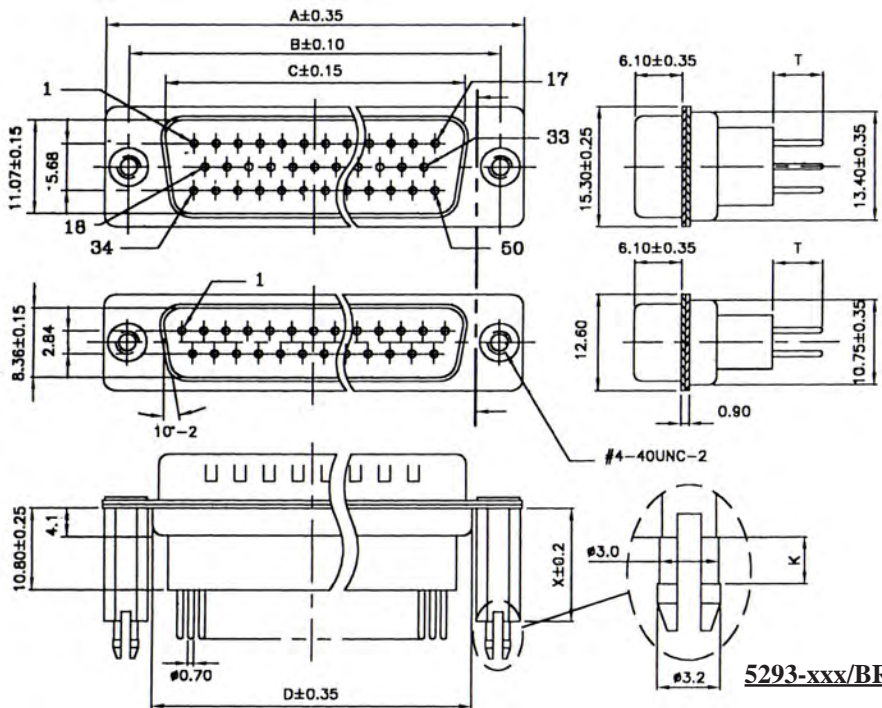
"BR" BOARD-LOCK

"BRJ" BOARD-LOCK & SCREW

### 5. LENGTH X:

11.0, 12.0, 12.7, 13.7, 14.5, 15.0

# D-SUB. MALE CONNECTOR WITH MACHINED PINS HIGH PROFILE STRAIGHT PCB MOUNT TYPE



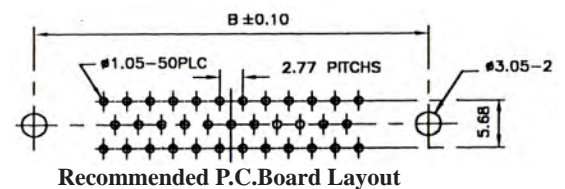
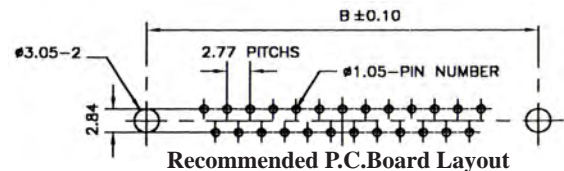
## SPECIFICATIONS

Current Rating: 5A  
 Contact Resistance: 25mΩ Max.  
 Insulation Resistance: 1000MΩ Min. at 500V  
 Dielectric Voltage: 1000V at 1 Minute  
 Operating Temperature: -55°C to +105°C

## MATERIALS

Insulator: PBT, UL94V-0 Rated  
 Contact: Brass  
 Shell: Brass, Steel  
 Contact Plating: Gold Over Nickel Plated  
 Shell Plating: Tin Over Copper Plated  
 \*RoHS & REACH compliant.

Part No.	Dimensions(mm)						
	A	B	C	D	X	T	K
5293-09A/xx	30.80	24.99	16.92	19.20	11.00	3.60	1.60
5293-09B/xx	30.80	24.99	16.92	19.20	12.70	5.40	2.40
5293-09C/xx	30.80	24.99	16.92	19.20	14.50	7.20	3.20
5293-15A/xx	39.15	33.32	25.25	27.62	11.00	3.60	1.60
5293-15B/xx	39.15	33.32	25.25	27.62	12.70	5.40	2.40
5293-15C/xx	39.15	33.32	25.25	27.62	14.50	7.20	3.20
5293-25A/xx	53.00	47.04	38.96	41.18	11.00	3.60	1.60
5293-25B/xx	53.00	47.04	38.96	41.18	12.70	5.40	2.40
5293-25C/xx	53.00	47.04	38.96	41.18	14.50	7.20	3.20
5293-37A/xx	69.30	63.50	55.42	57.34	11.00	3.60	1.60
5293-37B/xx	69.30	63.50	55.42	57.34	12.70	5.40	2.40
5293-37C/xx	69.30	63.50	55.42	57.34	14.50	7.20	3.20
5293-50A/xx	67.00	61.00	52.80	55.16	11.00	3.60	1.60
5293-50B/xx	67.00	61.00	52.80	55.16	12.70	5.40	2.40
5293-50C/xx	67.00	61.00	52.80	55.16	14.50	7.20	3.20



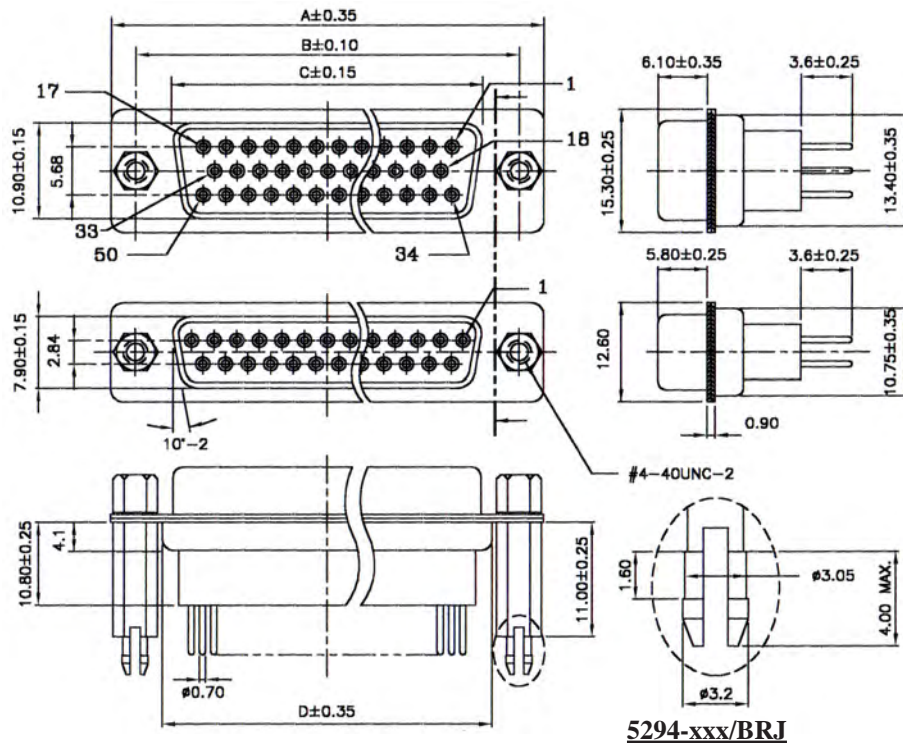
## ORDERING INFORMATION:

P/N 5 2 9 3 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{x}{3}$   $\frac{x}{4}$

- CONNECTOR TYPE:  
"93" MALE WITH MACHINED PINS
- NO. OF CONTACTS:  
09, 15, 25, 37, 50
- PIN LENGTH & CONTACT TYPE:  
"A" T= 3.6MM MACHINED PINS  
"B" T= 5.4MM MACHINED PINS  
"C" T= 7.2MM MACHINED PINS

- MOUNTING OPTION:  
" " Ø3.05MM THROUGH HOLES  
"BR" BOARD LOCK  
"BRJ" BOARD LOCK & SCREW

# D-SUB. FEMALE CONNECTOR WITH MACHINED PINS HIGH PROFILE STRAIGHT PCB MOUNT TYPE



## SPECIFICATIONS

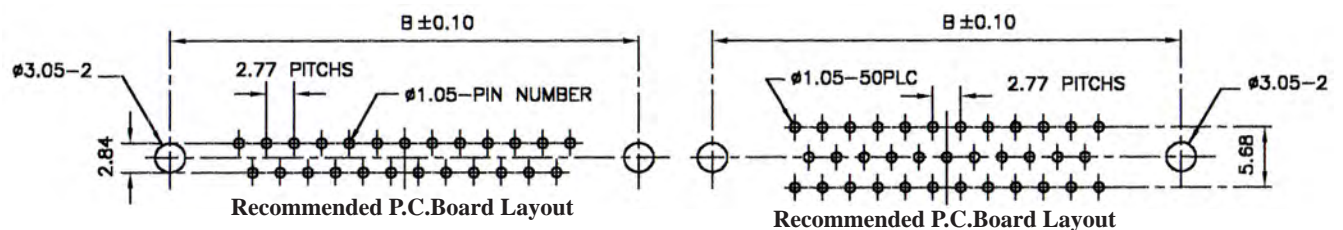
**Current Rating:** 5A  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
 \*RoHS & REACH compliant.

No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	30.80	24.99	16.30	19.20
15	39.15	33.32	24.65	27.62
25	53.00	47.04	38.40	41.18
37	69.30	63.50	54.80	57.34
50	67.00	61.00	52.20	55.16

5294-xxx/BRJ



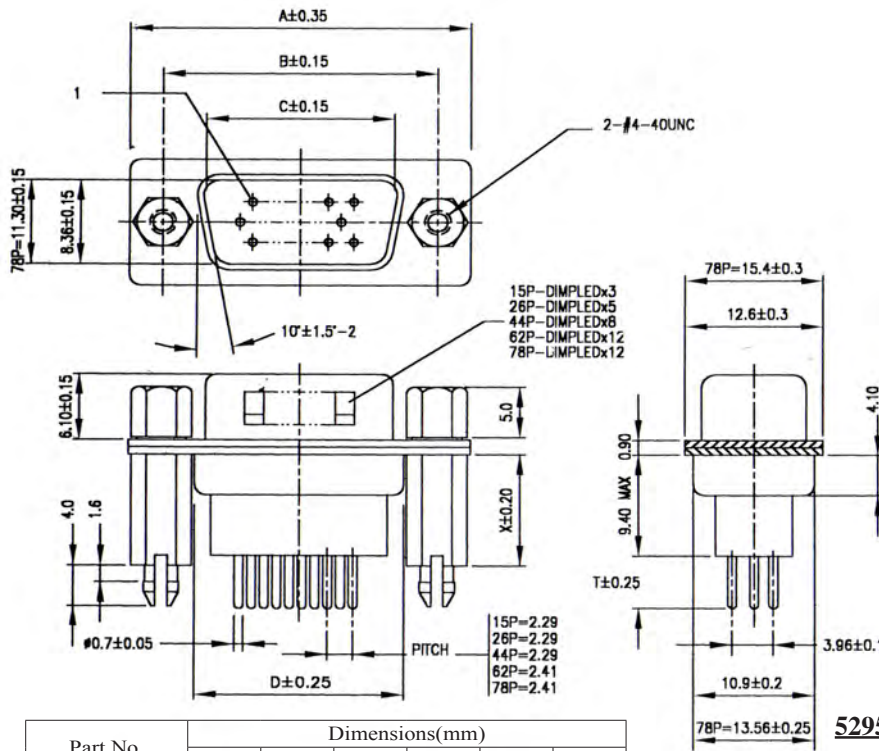
## ORDERING INFORMATION:

P/N 5 2 9 4 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{x}{3}$   $\frac{x}{4}$

- CONNECTOR TYPE:  
"94" FEMALE WITH MACHINED PINS
- NO. OF CONTACTS:  
09, 15, 25, 37, 50
- PIN LENGTH & CONTACT TYPE:  
"A" T= 3.6MM MACHINED PINS  
"B" T= 5.4MM MACHINED PINS  
"C" T= 7.2MM MACHINED PINS

- MOUNTING OPTION:  
" " Ø3.05MM THROUGH HOLES  
"BR" BOARD LOCK  
"BRJ" BOARD LOCK & SCREW

# D-SUB. HIGH DENSITY MALE CONNECTOR WITH MACHINED PINS HIGH PROFILE STRAIGHT PCB MOUNT TYPE



## SPECIFICATIONS

Current Rating: 5A  
 Contact Resistance: 25mΩ Max.  
 Insulation Resistance: 1000MΩ Min. at 500V  
 Dielectric Voltage: 1000V at 1 Minute  
 Operating Temperature: -55°C to +105°C

## MATERIALS

Insulator: PBT, UL94V-0 Rated  
 Contact: Brass  
 Shell: Brass, Steel  
 Contact Plating: Gold Over Nickel Plated  
 Shell Plating: Tin Over Copper Plated  
 \*RoHS & REACH compliant.

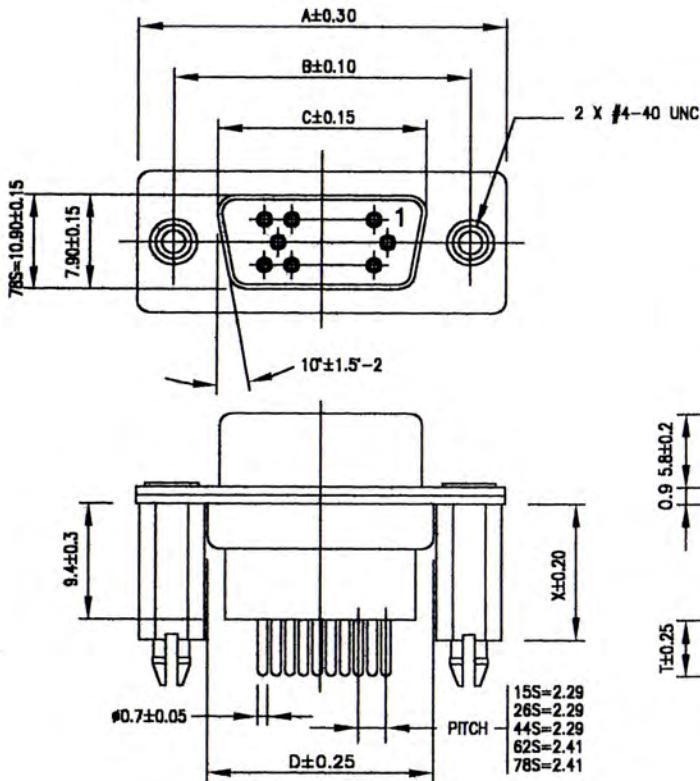
Part No.	Dimensions(mm)					
	A	B	C	D	T	X
5295-15A/xx	30.80	24.99	16.92	19.20	3.60	9.60
5295-15B/xx	30.80	24.99	16.92	19.20	5.40	11.00
5295-15C/xx	30.80	24.99	16.92	19.20	7.20	12.70
5295-26A/xx	39.20	33.32	25.25	27.70	3.60	9.60
5295-26B/xx	39.20	33.32	25.25	27.70	5.40	11.00
5295-26C/xx	39.20	33.32	25.25	27.70	7.20	12.70
5295-44A/xx	53.00	47.04	38.95	41.10	3.60	9.60
5295-44B/xx	53.00	47.04	38.95	41.10	5.40	11.00
5295-44C/xx	53.00	47.04	38.95	41.10	7.20	12.70
5295-62A/xx	69.40	63.50	55.40	57.30	3.60	9.60
5295-62B/xx	69.40	63.50	55.40	57.30	5.40	11.00
5295-62C/xx	69.40	63.50	55.40	57.30	7.20	12.70
5295-78A/xx	67.00	61.10	52.80	55.10	3.60	9.60
5295-78B/xx	67.00	61.10	52.80	55.10	5.40	11.00
5295-78C/xx	67.00	61.10	52.80	55.10	7.20	12.70

## ORDERING INFORMATION:

P/N 5 2 9 5 -  $\frac{xx}{1}$   $\frac{xx}{2}$   $\frac{xx}{3}$   $\frac{xx}{4}$

- CONNECTOR TYPE:  
"95" MALE WITH MACHINED PINS
- NO. OF CONTACTS:  
15, 26, 44, 62, 78
- PIN LENGTH & CONTACT TYPE:  
"A" T= 3.6MM MACHINED PINS  
"B" T= 5.4MM MACHINED PINS  
"C" T= 7.2MM MACHINED PINS
- MOUNTING OPTION:  
" " Ø3.05MM THROUGH HOLES  
"BR" BOARD LOCK  
"BRJ" BOARD LOCK & SCREW

# D-SUB. HIGH DENSITY FEMALE CONNECTOR HIGH PROFILE STRAIGHT PCB MOUNT TYPE

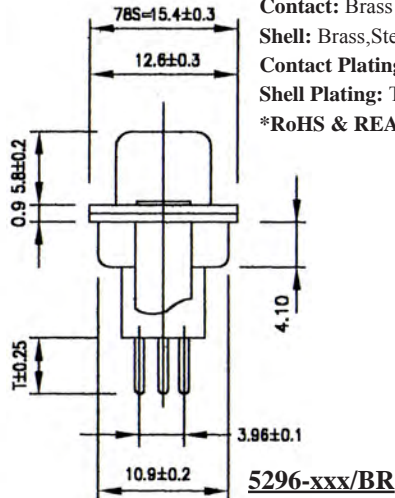


## SPECIFICATIONS

Current Rating: 3A or 5A  
 Contact Resistance: 25mΩ Max.  
 Insulation Resistance: 1000MΩ Min. at 500V  
 Dielectric Voltage: 1000V at 1 Minute  
 Operating Temperature: -55°C to +105°C

## MATERIALS

Insulator: PBT, UL94V-0 Rated  
 Contact: Brass  
 Shell: Brass, Steel  
 Contact Plating: Gold Over Nickel Plated  
 Shell Plating: Tin Over Copper Plated  
 \*RoHS & REACH compliant.



Part No.	Dimensions(mm)					
	A	B	C	D	T	X
5296-15A(D)/xx	30.80	24.99	16.34	19.20	3.60	9.60
5296-15B(E)/xx	30.80	24.99	16.34	19.20	5.40	11.00
5296-15C(F)/xx	30.80	24.99	16.34	19.20	7.20	12.70
5296-26A(D)/xx	39.20	33.32	24.70	27.70	3.60	9.60
5296-26B(E)/xx	39.20	33.32	24.70	27.70	5.40	11.00
5296-26C(F)/xx	39.20	33.32	24.70	27.70	7.20	12.70
5296-44A(D)/xx	53.00	47.04	38.40	41.10	3.60	9.60
5296-44B(E)/xx	53.00	47.04	38.40	41.10	5.40	11.00
5296-44C(F)/xx	53.00	47.04	38.40	41.10	7.20	12.70
5296-62A(D)/xx	69.40	63.50	54.80	57.30	3.60	9.60
5296-62B(E)/xx	69.40	63.50	54.80	57.30	5.40	11.00
5296-62C(F)/xx	69.40	63.50	54.80	57.30	7.20	12.70
5296-78A(D)/xx	67.00	61.10	52.20	55.10	3.60	9.60
5296-78B(E)/xx	67.00	61.10	52.20	55.10	5.40	11.00
5296-78C(F)/xx	67.00	61.10	52.20	55.10	7.20	12.70

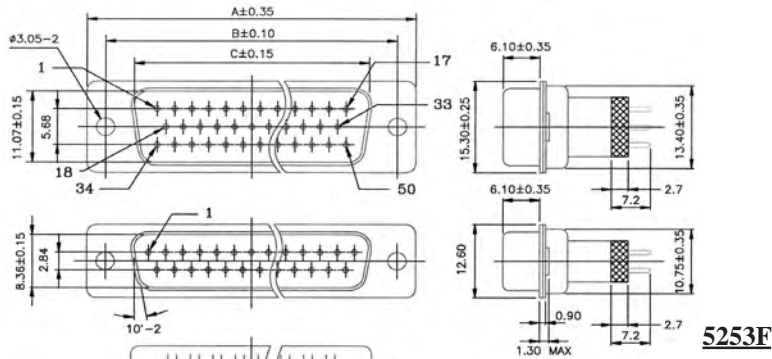
## ORDERING INFORMATION:

P/N 5 2 9 6 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{x}{3}$   $\frac{x}{4}$

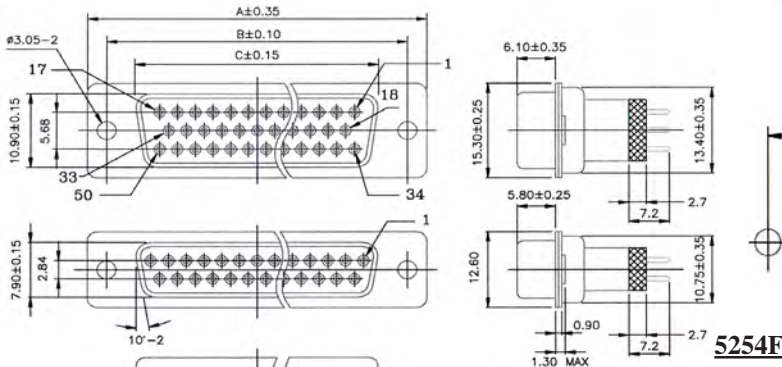
- CONNECTOR TYPE:  
"96" FEMALE
- NO. OF CONTACTS:  
15, 26, 44, 62, 78
- PIN LENGTH & CONTACT TYPE:  
"A" T= 3.6MM MACHINED PINS (5A)  
"B" T= 5.4MM MACHINED PINS (5A)  
"C" T= 7.2MM MACHINED PINS (5A)  
"D" T= 3.6MM STAMPED PINS (3A)  
"E" T= 5.4MM STAMPED PINS (3A)  
"F" T= 7.2MM STAMPED PINS (3A)
- MOUNTING OPTION:  
" " Ø3.05MM THROUGH HOLES  
"BR" BOARD LOCK  
"BRJ" BOARD LOCK & SCREW



# D-SUB. CONNECTOR HIGH PROFILE STRAIGHT PCB MOUNT TYPE WITH MACHINED PINS & FERRITE



No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	30.80	24.99	16.92	19.20
15	39.15	33.32	25.25	27.62
25	53.00	47.04	38.96	41.18
37	69.30	63.50	55.42	57.34
50	67.00	61.00	52.80	55.16



No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	30.80	24.99	16.30	19.20
15	39.15	33.32	24.65	27.62
25	53.00	47.04	38.40	41.18
37	69.30	63.50	54.80	57.34
50	67.00	61.00	52.20	55.16

## SPECIFICATIONS

Current Rating: 5A

Contact Resistance: 25mΩ Max.

Insulation Resistance: 1000MΩ Min. at 500V

Dielectric Voltage: 1000V at 1 Minute

Operating Temperature: -55°C to +105°C

## MATERIALS

Insulator: PBT, UL94V-0 Rated

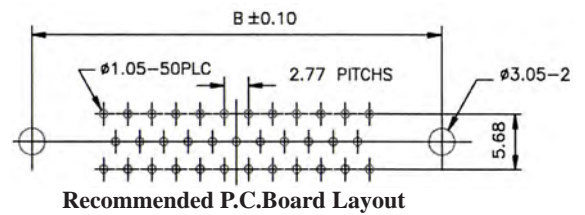
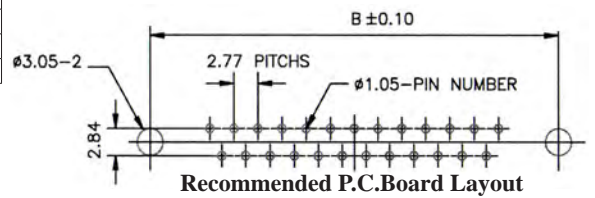
Contact: Brass

Shell: Brass, Steel

Contact Plating: Gold Over Nickel Plated

Shell Plating: Tin Over Copper Plated

\*RoHS & REACH compliant.



## ORDERING INFORMATION:

P/N 5 2  $\frac{1}{X X}$  F -  $\frac{2}{X X}$  T B /  $\frac{3}{X X X}$

### 1. CONNECTOR TYPE:

"53" MALE

"54" FEMALE

### 2. NO. OF CONTACTS:

09, 15, 25, 37

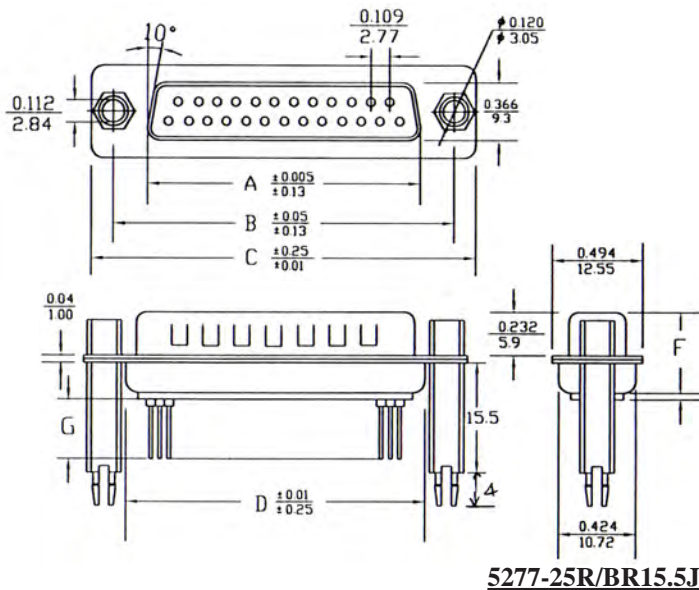
### 3. MOUNTING OPTION:

" " Ø3.05MM THROUGH HOLES

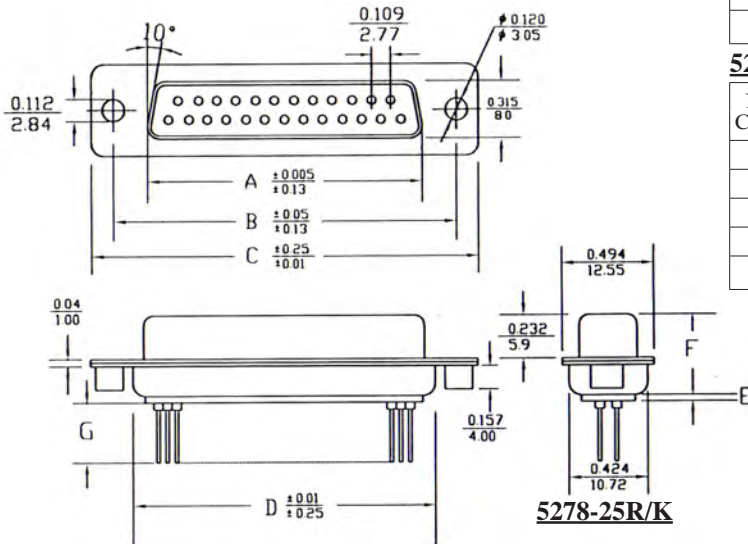
"BR" BOARD LOCK

"BRJ" BOARD LOCK & SCREW

## D-SUB. CONNECTOR STRAIGHT PCB TYPE WITH LONG MACHINED TAILS



**5277-25R/BR15.5J**



**5278-25R/K**

### SPECIFICATIONS

**Current Rating:** 5A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

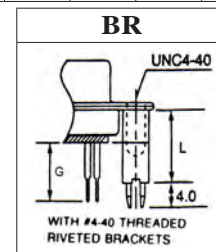
\*RoHS & REACH compliant.

### 5277

No. of Contacts	Dimensions(mm)						
	A	B	C	D	E	F	G
09	16.92	24.99	30.81	19.28	1.20	11.00	13.00
15	25.25	33.32	39.14	27.51	1.20	11.00	13.00
25	38.96	47.04	53.04	41.30	1.20	11.00	13.00
37	55.42	63.50	69.32	57.71	1.20	11.00	13.00
50	52.86	61.11	66.92	55.30	1.20	11.00	13.00

### 5278

No. of Contacts	Dimensions(mm)						
	A	B	C	D	E	F	G
09	16.33	24.99	30.81	19.28	1.20	11.00	13.00
15	24.66	33.32	39.14	27.51	1.20	11.00	13.00
25	38.38	47.04	53.04	41.30	1.20	11.00	13.00
37	54.84	63.50	69.32	57.71	1.20	11.00	13.00
50	52.34	61.11	66.92	55.30	1.20	11.00	13.00



### ORDERING INFORMATION:

P/N 5 2  $\frac{xx}{1}$  -  $\frac{xx}{2}$   $\frac{x}{3}$  /  $\frac{xxx}{4}$

#### 1. CONNECTOR TYPE:

"77" MALE

"78" FEMALE

#### 2. NO. OF CONTACTS:

09, 15, 25, 37, 50

#### 3. PIN LENGTH:

"Q" G=10.0MM

"R" G=13.0MM

#### 4. MOUNTING OPTION:

K, J, KJ, BRxx, BRxxJ

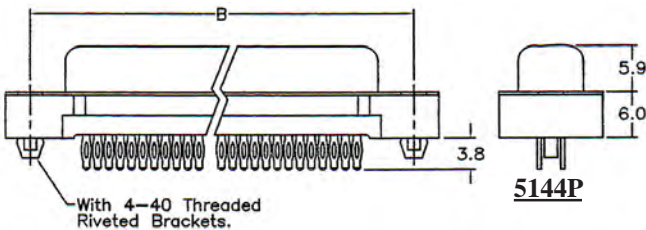
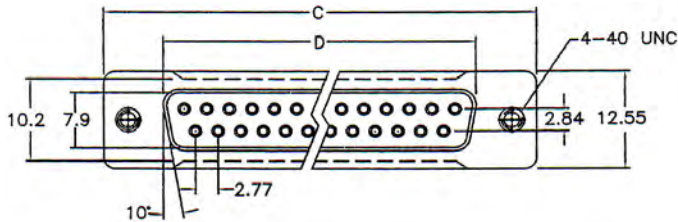
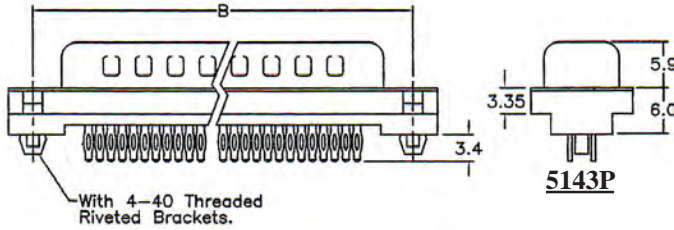
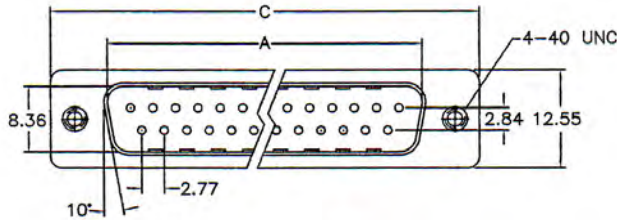
"BR14.5" L= 14.50MM

"BR15.5" L= 15.50MM

OTHER LENGTHES:

8.4, 11, 9.5, 12.5, 15.5, 10.5MM...ETC.

## D-SUB. CONNECTOR STRAIGHT PRESS FIT TYPE



### SPECIFICATIONS

**Current Rating:** 3.0 Amperes

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

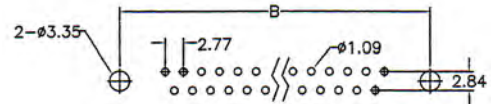
**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.



Recommended P.C. Board Layout

No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.92	24.99	30.81	16.33
15	25.50	33.32	39.14	24.66
25	38.96	47.04	53.04	38.36
37	55.42	63.50	69.32	54.84

### ORDERING INFORMATION:

P/N 5 1  $\frac{xx}{1}$  P -  $\frac{xx}{2}$  T  $\frac{B}{3}$  /  $\frac{xx}{4}$

#### 1. CONNECTOR TYPE:

"43" MALE

"44" FEMALE

#### 2. NO. OF CONTACTS:

09, 15, 25, 37

#### 3. INSERT COLOR:

"B" BLACK

#### 4. MOUNTING OPTION:

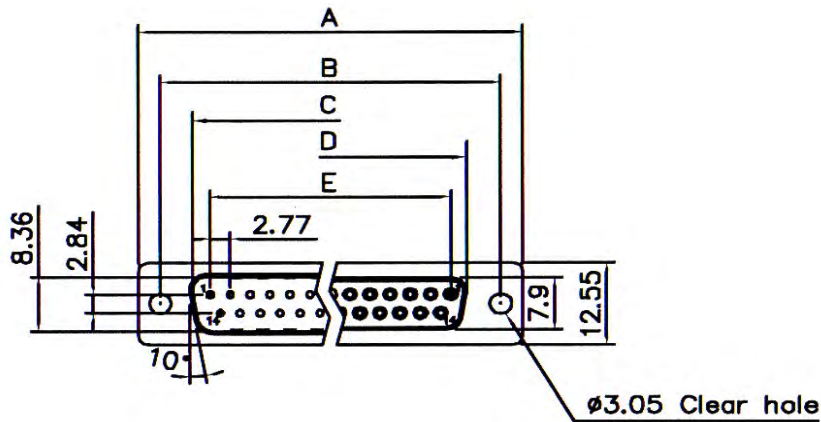
" " Ø3.05MM THROUGH HOLES

"J" FRONT RIVETED NUTS UNC4-40

"JM3" FRONT RIVETED NUTS M3

"BR" WITH BOARDLOCKS

## D-SUB. CONNECTORS STRAIGHT PCB TYPE WITHOUT METAL REAR SHELL



### SPECIFICATIONS

**Current Rating:** 3.0 Amperes

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

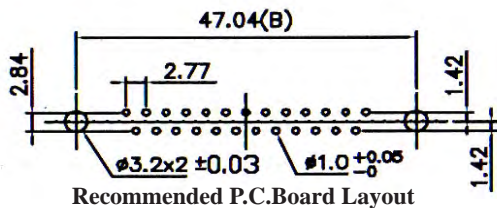
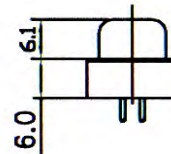
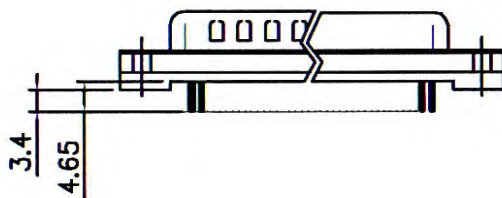
**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.



Recommended P.C.Board Layout

No. of Contacts	Dimensions(mm)				
	A	B	C	D	E
09	30.81	24.99	16.92	16.33	11.08
15	39.14	33.32	25.50	24.66	19.39
25	53.04	47.04	38.96	38.38	33.24
37	69.32	63.50	55.42	54.84	49.86

### ORDERING INFORMATION:

P/N 5 1  $\frac{XX}{1}$  -  $\frac{XX}{2}$  T  $\frac{B}{3}$  /  $\frac{XX}{4}$

#### 1. CONNECTOR TYPE:

"35" MALE

"36" FEMALE

#### 2. NO. OF CONTACTS:

09, 15, 25, 37

#### 3. INSERT COLOR:

"B" BLACK

#### 4. MOUNTING OPTION:

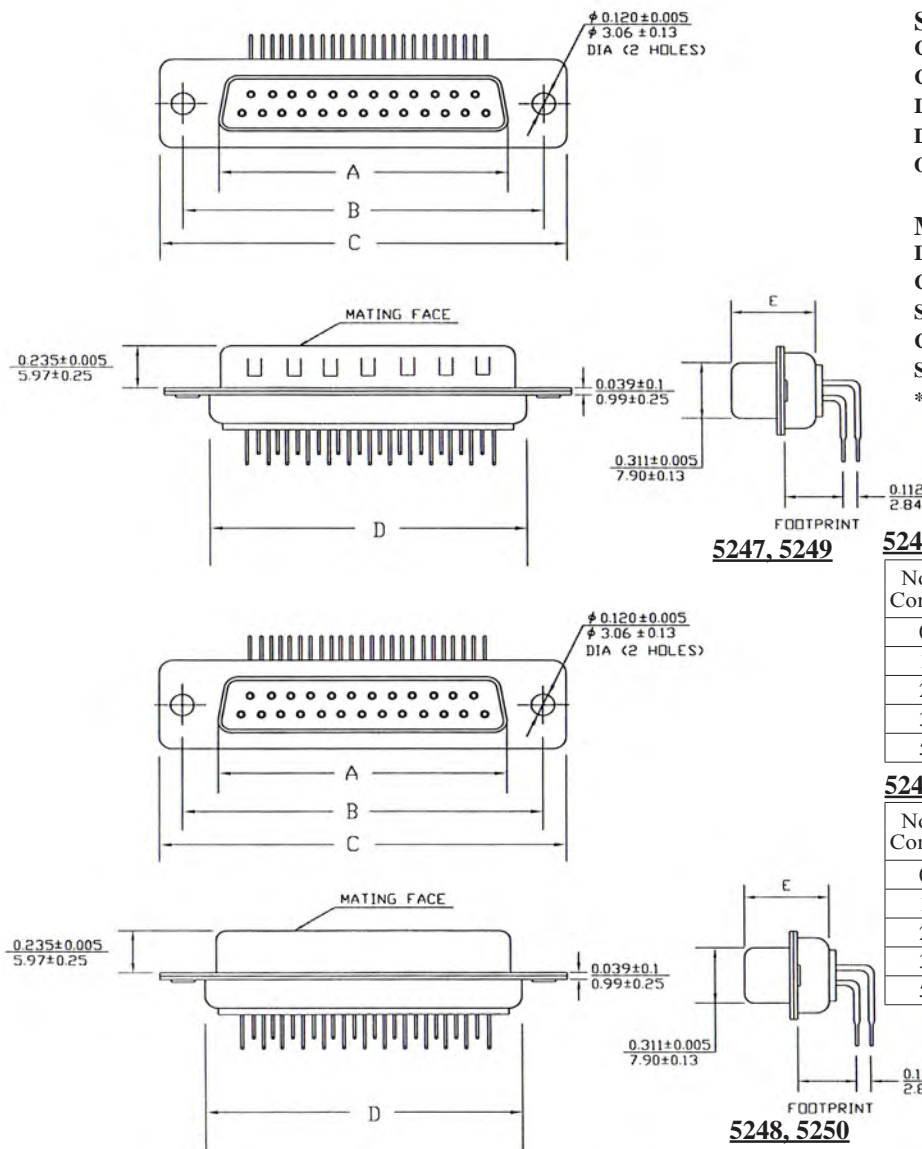
" " Ø3.05MM THROUGH HOLES

"J" FRONT RIVETED NUTS UNC4-40

"JM3" FRONT RIVETED NUTS M3

"BR" WITH BOARDLOCKS

## D-SUB. RIGHT ANGLE CONNECTOR WITH MACHINED CONTACTS



### SPECIFICATIONS

**Current Rating:** 5A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

**\*RoHS & REACH compliant.**

### 5247, 5249

No. of Contacts	Dimensions(mm)				
	A	B	C	D	E
09	16.92	24.99	30.81	19.28	10.82
15	25.25	33.32	39.14	27.51	10.82
25	38.96	47.04	53.04	41.28	10.82
37	55.42	63.50	69.32	57.71	10.90
50	52.81	61.10	66.93	55.32	10.90

### 5248, 5250

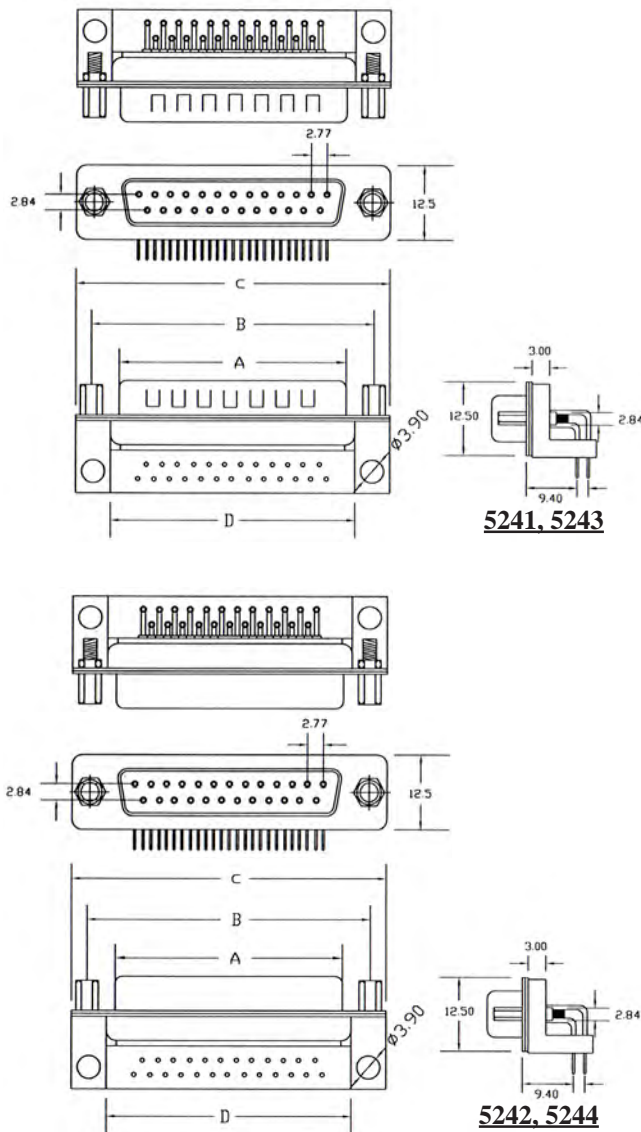
No. of Contacts	Dimensions(mm)				
	A	B	C	D	E
09	16.33	24.99	30.81	19.28	10.90
15	24.66	33.32	39.14	27.51	10.90
25	38.38	47.04	53.04	41.28	10.90
37	54.84	63.50	69.32	57.71	10.90
50	52.43	61.10	66.93	55.32	10.90

### ORDERING INFORMATION:

P/N 52  $\frac{xx}{1}$  -  $\frac{xx}{2}$   $\frac{T}{3}$  W

- CONNECTOR TYPE & FOOTPRINT:  
 "47" MALE WITH FOOTPRINT= 7.2MM  
 "48" FEMALE WITH FOOTPRINT= 7.2MM  
 "49" MALE WITH FOOTPRINT= 9.4MM  
 "50" FEMALE WITH FOOTPRINT= 9.4MM
- NO. OF CONTACTS:  
 09, 15, 25, 37, 50
- SHELL FINISH:  
 "T" FULL TIN PLATED

## D-SUB. RIGHT ANGLE CONNECTOR WITH MACHINED PINS & PLASTIC BRACKET



### SPECIFICATIONS

**Current Rating:** 5A

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.

### 5241, 5243

No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.92	24.99	30.81	18.20
15	25.25	33.32	39.14	26.30
25	38.96	47.04	53.04	40.30
37	55.42	63.50	69.32	56.50

### 5242, 5244

No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	16.33	24.99	30.81	18.20
15	24.66	33.32	39.14	26.30
25	38.38	47.04	53.04	40.30
37	54.84	63.50	69.32	56.50

### ORDERING INFORMATION:

P/N 5 2  $\frac{XX}{1}$  -  $\frac{XX}{2}$   $\frac{T}{3}$   $\frac{W}{4}$  /  $\frac{XX}{5}$

1. CONNECTOR TYPE & FOOTPRINT:

"41" MALE WITH FOOTPRINT= 7.2MM

"42" FEMALE WITH FOOTPRINT= 7.2MM

"43" MALE WITH FOOTPRINT= 9.4MM

"44" FEMALE WITH FOOTPRINT= 9.4MM

2. NO. OF CONTACTS:

09, 15, 25, 37

3. SHELL FINISH:

"T" FULL TIN PLATED

4. INSULATOR COLOR:

"W" WHITE

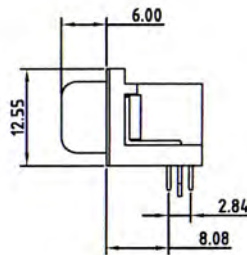
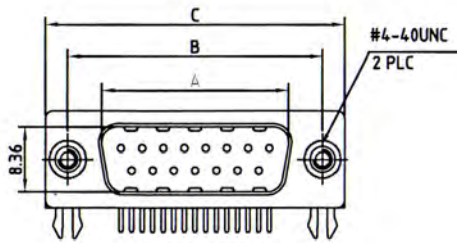
"B" BLACK

5. MOUNTING OPTION:

" " W/O BOARDLOCKS

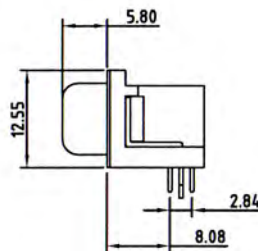
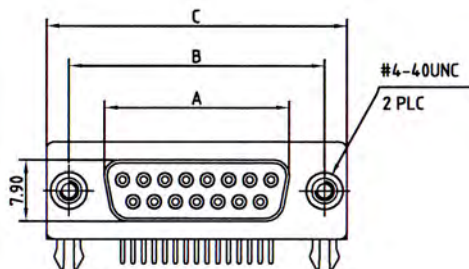
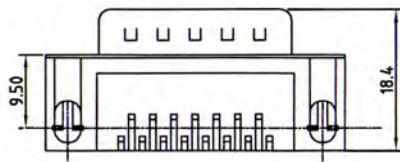
"BL" WITH BOARDLOCKS

# D-SUB. CONNECTOR RIGHT ANGLE TYPE WITH BOARDLOCKS (CONTACT EXTENSION: 7.2MM STANDARD)



**5259, 5261**

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.92	24.99	30.81
15	25.25	33.32	39.14
25	38.96	47.04	53.04
37	55.42	63.50	69.32



**5260, 5262**

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.33	24.99	30.81
15	24.66	33.32	39.14
25	38.38	47.04	53.04
37	54.84	63.50	69.32

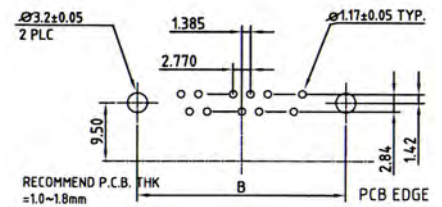


## SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
**\*RoHS & REACH compliant.**



**Recommended P.C. Board Layout**

N	(BLANK)
NJ	NH

## ORDERING INFORMATION:

P/N 5 2  $\frac{xx}{1}$  -  $\frac{xx}{2}$  T B /  $\frac{xx}{3}$

### 1. CONNECTOR TYPE:

- "59" MALE WITH SELECTIVE GOLD PLATED CONTACTS
- "60" FEMALE WITH SELECTIVE GOLD PLATED CONTACTS
- "61" MALE WITH FULL GOLD PLATED CONTACTS
- "62" FEMALE WITH FULL GOLD PLATED CONTACTS

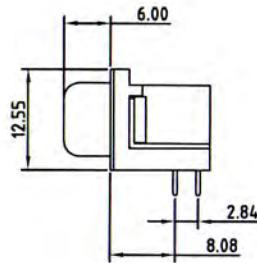
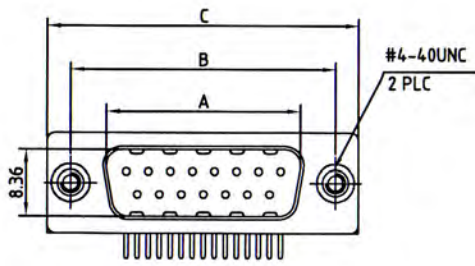
### 2. NO. OF CONTACTS:

09, 15, 25, 37

### 3. MOUNTING OPTION:

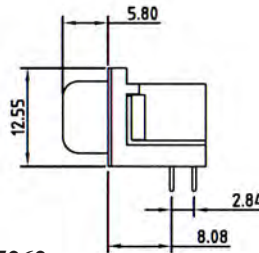
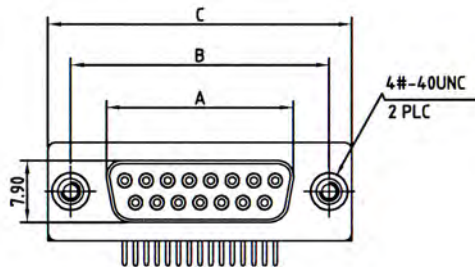
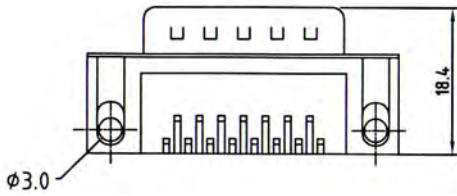
- " " LOCKED SCREWS (4.8MM)
- "N" WITHOUT SCREWS (5.8MM)
- "NH" LOOSE SCREWS (4.8MM)
- "NJ" ASSEMBLED SCREWS (4.8MM)

# D-SUB. CONNECTOR RIGHT ANGLE TYPE WITHOUT BOARDLOCKS (CONTACT EXTENSION: 7.2MM)



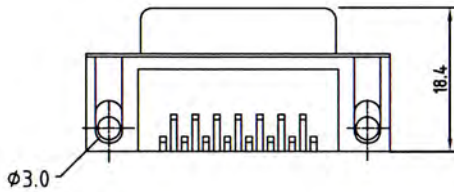
### 5259, 5261

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.92	24.99	30.81
15	25.25	33.32	39.14
25	38.96	47.04	53.04
37	55.42	63.50	69.32



### 5260, 5262

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.33	24.99	30.81
15	24.66	33.32	39.14
25	38.38	47.04	53.04
37	54.84	63.50	69.32

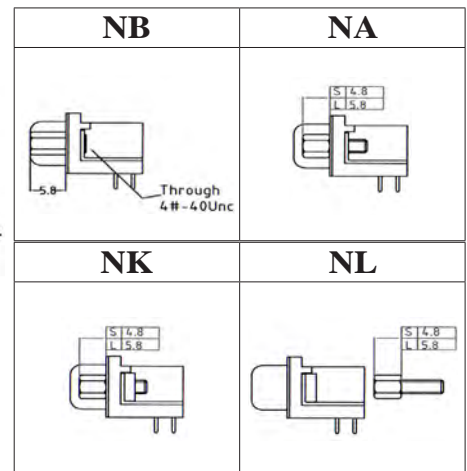
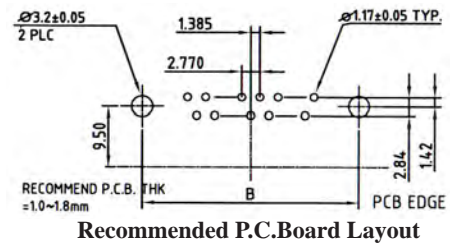


## SPECIFICATIONS

Current Rating: 3.0 Amperes  
 Contact Resistance: 25mΩ Max.  
 Insulation Resistance: 1000MΩ Min. at 500V  
 Dielectric Voltage: 1000V at 1 Minute  
 Operating Temperature: -55°C to +105°C

## MATERIALS

Insulator: PBT, UL94V-0 Rated  
 Contact: Brass  
 Shell: Brass, Steel  
 Contact Plating: Gold Over Nickel Plated  
 Shell Plating: Tin Over Copper Plated  
 \*RoHS & REACH compliant.



## ORDERING INFORMATION:

P/N 5 2  $\frac{XX}{1}$  -  $\frac{XX}{2}$  T B /  $\frac{XX}{3}$

### 1. CONNECTOR TYPE:

- "59" MALE WITH SELECTIVE GOLD PLATED CONTACTS
- "60" FEMALE WITH SELECTIVE GOLD PLATED CONTACTS
- "61" MALE WITH FULL GOLD PLATED CONTACTS
- "62" FEMALE WITH FULL GOLD PLATED CONTACTS

### 2. NO. OF CONTACTS:

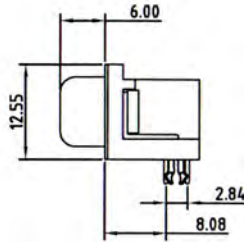
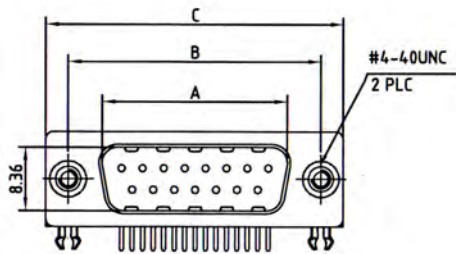
09, 15, 25, 37

### 3. MOUNTING OPTION:

- "NA" LOCKED SCREWS (4.8MM)
- "NB" WITHOUT SCREWS (5.8MM)
- "NL" LOOSE SCREWS (4.8MM)
- "NK" ASSEMBLED SCREWS (4.8MM)

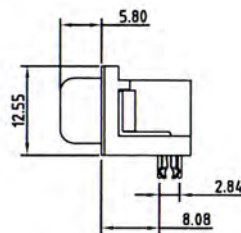
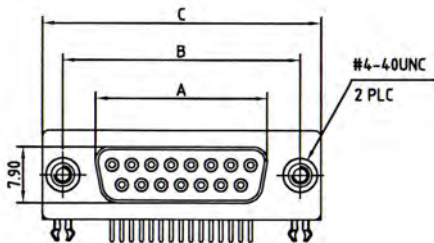


# D-SUB. CONNECTOR RIGHT ANGLE TYPE WITH 4 PRONGED BOARDLOCKS (CONTACT EXTENSION: 7.2MM)



**5113**

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.92	24.99	30.81
15	25.25	33.32	39.14
25	38.96	47.04	53.04
37	55.42	63.50	69.32



**5114**

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.33	24.99	30.81
15	24.66	33.32	39.14
25	38.38	47.04	53.04
37	54.84	63.50	69.32

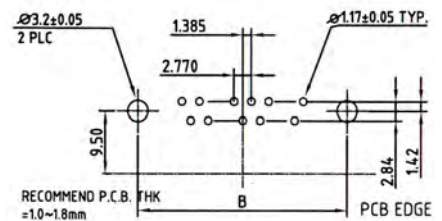


## SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
**\*RoHS & REACH compliant.**



**Recommended P.C. Board Layout**

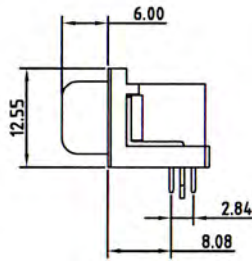
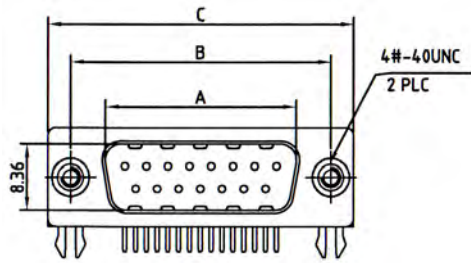
N	(BLANK)
NJ	NH

## ORDERING INFORMATION:

P/N 5 1  $\frac{XX}{1}$  -  $\frac{XX}{2}$  T B /  $\frac{XX}{3}$

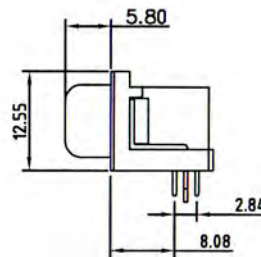
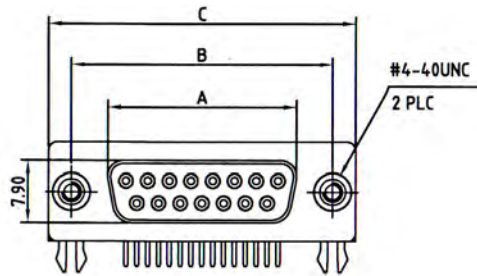
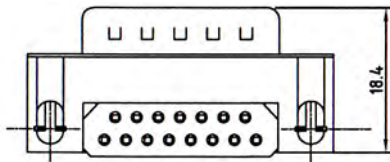
- CONNECTOR TYPE:  
 "13" MALE  
 "14" FEMALE
- NO. OF CONTACTS:  
 09, 15, 25, 37
- MOUNTING OPTION:  
 " " LOCKED SCREWS (4.8MM)  
 "N" WITHOUT SCREWS (5.8MM)  
 "NH" LOOSE SCREWS (4.8MM)  
 "NJ" ASSEMBLED SCREWS (4.8MM)

# D-SUB. CONNECTOR RIGHT ANGLE TYPE WITH STAMPED CONTACTS & FERRITE (CONTACT EXTENSION: 7.2MM)



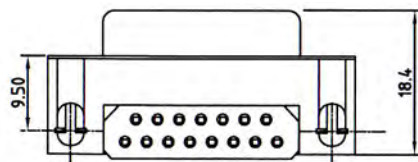
## 5265F

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.92	24.99	30.81
15	25.25	33.32	39.14
25	38.96	47.04	53.04
37	55.42	63.50	69.32



## 5266F

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.33	24.99	30.81
15	24.66	33.32	39.14
25	38.38	47.04	53.04
37	54.84	63.50	69.32



## SPECIFICATIONS

Current Rating: 3.0 Amperes

Contact Resistance: 25mΩ Max.

Insulation Resistance: 1000MΩ Min. at 500V

Dielectric Voltage: 1000V at 1 Minute

Operating Temperature: -55°C to +105°C

## MATERIALS

Insulator: PBT, UL94V-0 Rated

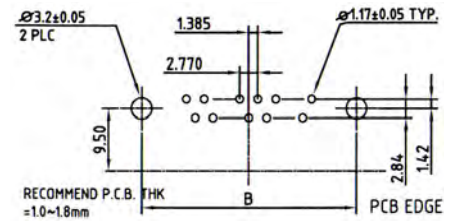
Contact: Brass

Shell: Brass, Steel

Contact Plating: Gold Over Nickel Plated

Shell Plating: Tin Over Copper Plated

\*RoHS & REACH compliant.



Recommended P.C. Board Layout

N	(BLANK)
NJ	NH

## ORDERING INFORMATION:

P/N 5 2  $\frac{x}{1}$  F -  $\frac{x}{2}$  T B /  $\frac{x}{3}$

### 1. CONNECTOR TYPE:

"65" MALE

"66" FEMALE

### 2. NO. OF CONTACTS:

09, 15, 25, 37

### 3. MOUNTING OPTION:

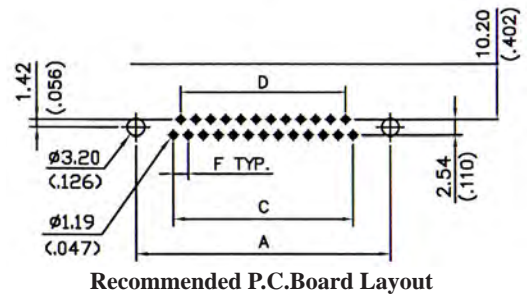
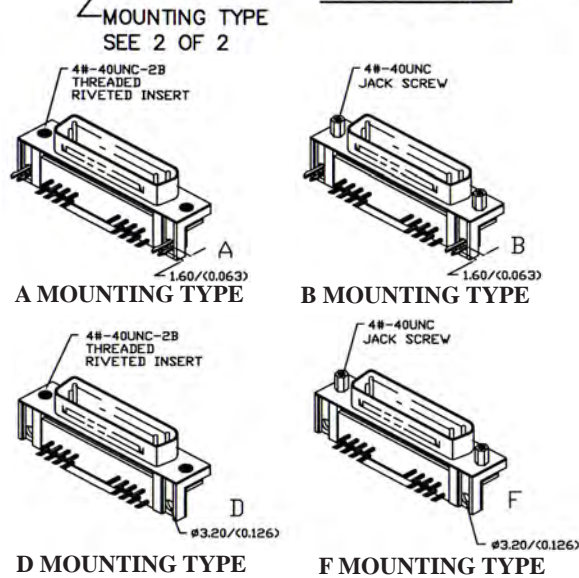
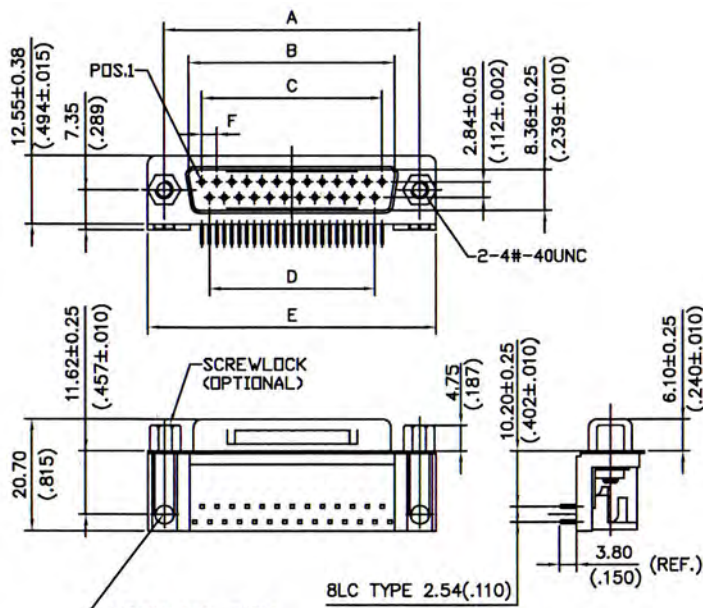
" " LOCKED SCREWS (4.8MM)

"N" WITHOUT SCREWS (5.8MM)

"NH" LOOSE SCREWS (4.8MM)

"NJ" ASSEMBLED SCREWS (4.8MM)

# EUROPEAN STANDARD D-SUB. MALE CONNECTOR RIGHT ANGLE TYPE (9.4MM)



## SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
 \*RoHS & REACH compliant.

No. of Contacts	Dimensions(mm)					
	A±0.13	B±0.25	C±0.13	D±0.13	E±0.38	F±0.05
09	24.99	16.92	10.96	8.22	30.89	2.74
15	33.32	25.25	19.19	16.44	39.10	2.74
25	47.04	38.96	33.24	30.47	53.09	2.77
37	63.50	55.42	49.86	47.09	69.40	2.77

## ORDERING INFORMATION:

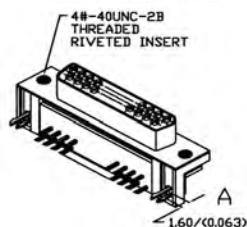
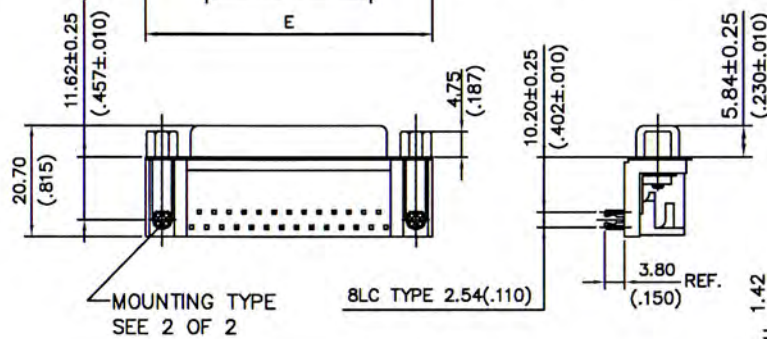
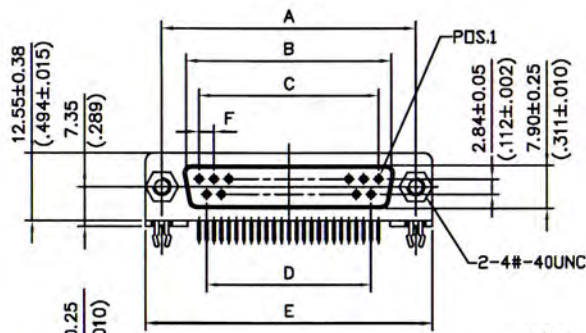
P/N 5 2 7 1 -  $\frac{X X X}{T} \frac{X}{2}$

1. NO. OF CONTACTS:  
09, 15, 25, 37
2. MOUNTING TYPE:  
 "A" WITH BOARDLOCK GROUNDING BRACKET & WITH UNC4-40 THREADED RIVETED INSERT  
 "B" WITH BOARDLOCK GROUNDING BRACKET & SCREW LOCK  
 "D" WITH Ø3.2MM MOUNTING HOLE & UNC4-40 THREADED RIVETED INSERT  
 "F" WITH Ø3.2MM MOUNTING HOLE & WITH SCREW LOCK

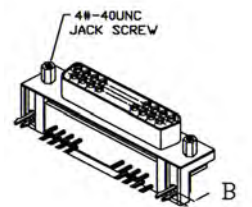
NOTE: THE SPECIFICATION CONFORMS TO EUROPEAN STANDARD:

- \* CONTACT EXTENTION: 9.4MM
- \* CONTACT CENTER SPACING: 2.54MM

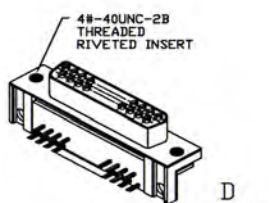
# EUROPEAN STANDARD D-SUB. FEMALE CONNECTOR RIGHT ANGLE TYPE (9.4MM)



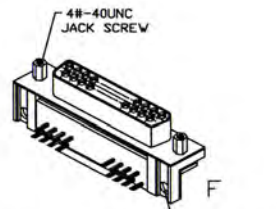
A MOUNTING TYPE



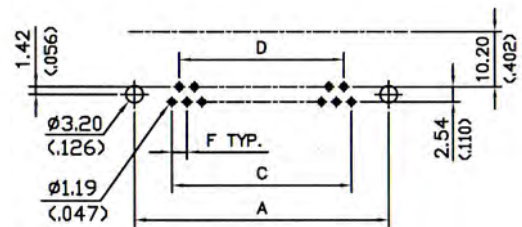
B MOUNTING TYPE



D MOUNTING TYPE



F MOUNTING TYPE



Recommended P.C.Board Layout

## SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
 \*RoHS & REACH compliant.

No. of Contacts	Dimensions(mm)					
	A±0.13	B±0.25	C±0.13	D±0.13	E±0.38	F±0.05
09	24.99	16.33	10.96	8.22	30.89	2.74
15	33.32	24.66	19.19	16.44	39.10	2.74
25	47.04	38.38	33.24	30.47	53.09	2.77
37	63.50	54.84	49.86	47.09	69.40	2.77

## ORDERING INFORMATION:

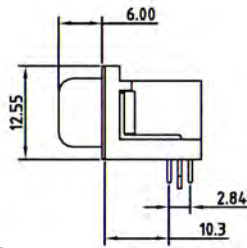
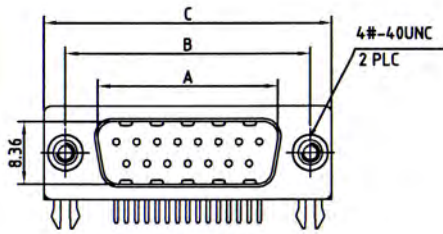
P/N 5 2 7 2 -  $\frac{X X X}{T} 2$

1. NO. OF CONTACTS:  
09, 15, 25, 37
2. MOUNTING TYPE:  
 "A" WITH BOARDLOCK GROUNDING BRACKET & WITH UNC4-40 THREADED RIVETED INSERT  
 "B" WITH BOARDLOCK GROUNDING BRACKET & SCREW LOCK  
 "D" WITH Ø3.2MM MOUNTING HOLE & UNC4-40 THREADED RIVETED INSERT  
 "F" WITH Ø3.2MM MOUNTING HOLE & WITH SCREW LOCK

NOTE: THE SPECIFICATION CONFORMS TO EUROPEAN STANDARD:

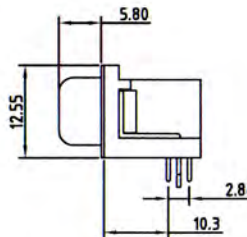
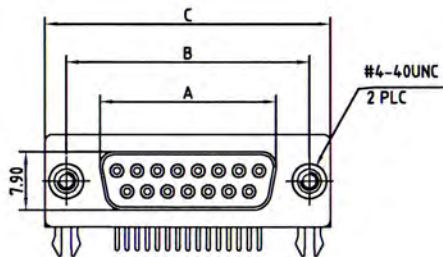
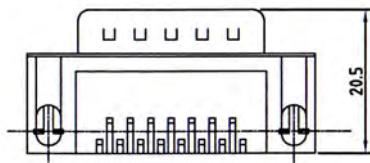
- \* CONTACT EXTENTION: 9.4MM
- \* CONTACT CENTER SPACING: 2.54MM

# D-SUB. CONNECTOR RIGHT ANGLE WITH BOARDLOCKS (CONTACT EXTENSION: 9.4MM STANDARD)



**5273**

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.92	24.99	30.81
15	25.25	33.32	39.14
25	38.96	47.04	53.04
37	55.42	63.50	69.32



**5274**

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.33	24.99	30.81
15	24.66	33.32	39.14
25	38.38	47.04	53.04
37	54.84	63.50	69.32

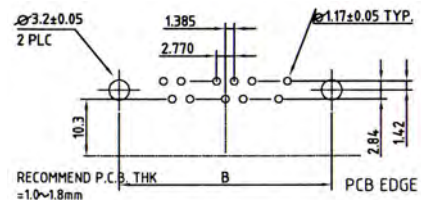


## SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
**\*RoHS & REACH compliant.**



**Recommended P.C. Board Layout**

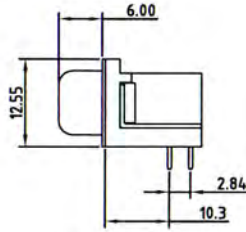
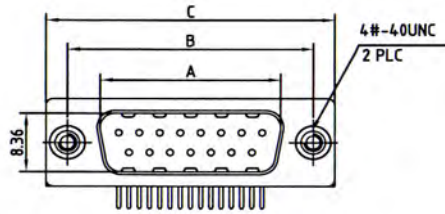
N	(BLANK)
NJ	NH

## ORDERING INFORMATION:

P/N 5 2  $\frac{XX}{1}$  -  $\frac{XX}{2}$  T B /  $\frac{XX}{3}$

- CONNECTOR TYPE:  
 "73" MALE  
 "74" FEMALE
- NO. OF CONTACTS:  
 09, 15, 25, 37
- MOUNTING OPTION:  
 " " LOCKED SCREWS (4.8MM)  
 "N" WITHOUT SCREWS (5.8MM)  
 "NH" LOOSE SCREWS (4.8MM)  
 "NJ" ASSEMBLED SCREWS (4.8MM)

# D-SUB. CONNECTOR RIGHT ANGLE WITHOUT BOARDLOCKS (CONTACT EXTENSION: 9.4MM)



**5273**

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.92	24.99	30.81
15	25.25	33.32	39.14
25	38.96	47.04	53.04
37	55.42	63.50	69.32

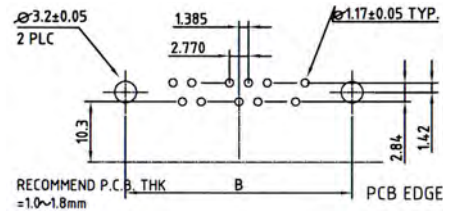


## SPECIFICATIONS

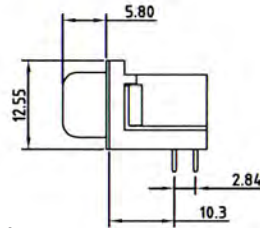
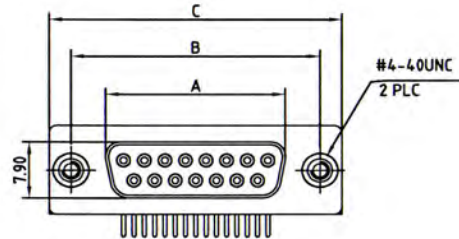
- Current Rating:** 3.0 Amperes
- Contact Resistance:** 25mΩ Max.
- Insulation Resistance:** 1000MΩ Min. at 500V
- Dielectric Voltage:** 1000V at 1 Minute
- Operating Temperature:** -55°C to +105°C

## MATERIALS

- Insulator:** PBT, UL94V-0 Rated
- Contact:** Brass
- Shell:** Brass, Steel
- Contact Plating:** Gold Over Nickel Plated
- Shell Plating:** Tin Over Copper Plated
- \*RoHS & REACH compliant.**

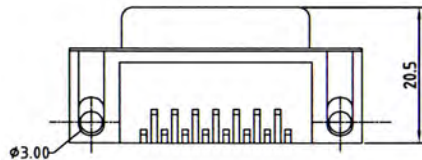


**Recommended P.C.Board Layout**



**5274**

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.33	24.99	30.81
15	24.66	33.32	39.14
25	38.38	47.04	53.04
37	54.84	63.50	69.32



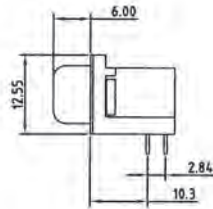
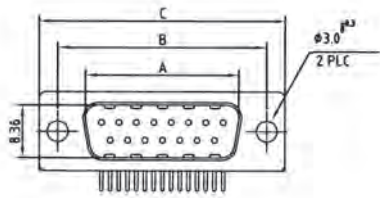
NB	NA
NK	NL

## ORDERING INFORMATION:

P/N 5 2  $\frac{XX}{1}$  -  $\frac{XX}{2}$  T B /  $\frac{XX}{3}$

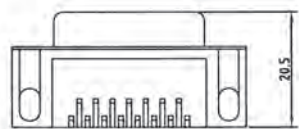
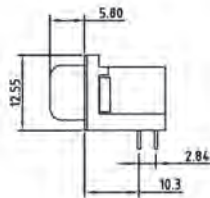
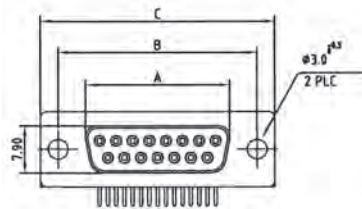
- CONNECTOR TYPE:  
"73" MALE  
"74" FEMALE
- NO. OF CONTACTS:  
09, 15, 25, 37
- MOUNTING OPTION:  
"NA" LOCKED SCREWS (4.8MM)  
"NB" WITHOUT SCREWS (5.8MM)  
"NL" LOOSE SCREWS (4.8MM)  
"NK" ASSEMBLED SCREWS (4.8MM)

## D-SUB. RIGHT ANGLE CONNECTOR WITH 2 THROUGH HOLES (CONTACT EXTENSION=9.4MM)



### 5273

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.92	24.99	30.81
15	25.25	33.32	39.14
25	38.96	47.04	53.04
37	55.42	63.50	69.32



### 5274

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.33	24.99	30.81
15	24.66	33.32	39.14
25	38.38	47.04	53.04
37	54.83	63.50	69.32

### SPECIFICATIONS

**Current Rating:** 3.0 Amperes

**Contact Resistance:** 30mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT

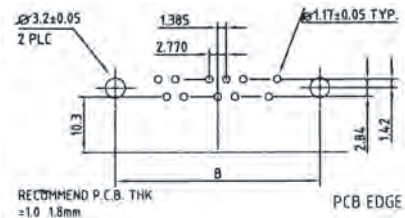
**Contact:** Copper Alloy

**Shell:** SPCC

**Z-Piece:** Copper Alloy

**Rivet:** Copper Alloy or Zinc

**\*RoHS & REACH compliant.**



Recommended P.C. Board Layout

### ORDERING INFORMATION:

P/N 52  $\frac{XX}{1}$  -  $\frac{XX}{2}$  T B 2 H O

1. CONNECTOR TYPE:

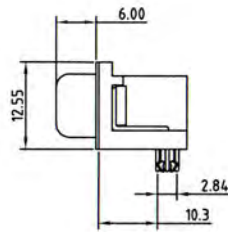
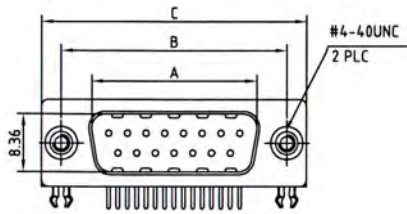
"73" MALE

"74" FEMALE

2. NO. OF CONTACTS:

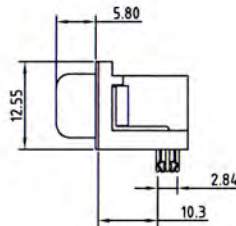
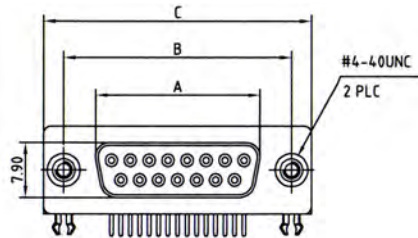
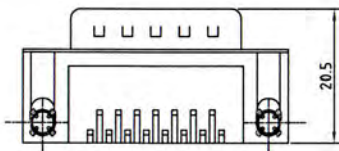
09, 15, 25, 37

# D-SUB. CONNECTOR RIGHT ANGLE WITH STAMPED CONTACTS WITH 4 PRONGED BOARDLOCKS (CONTACT EXTENSION: 9.4MM)



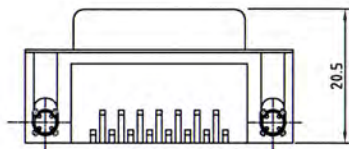
## 5189

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.92	24.99	30.81
15	25.25	33.32	39.14
25	38.96	47.04	53.04
37	55.42	63.50	69.32



## 5190

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.33	24.99	30.81
15	24.66	33.32	39.14
25	38.38	47.04	53.04
37	54.84	63.50	69.32



## SPECIFICATIONS

**Current Rating:** 3.0 Amperes

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated

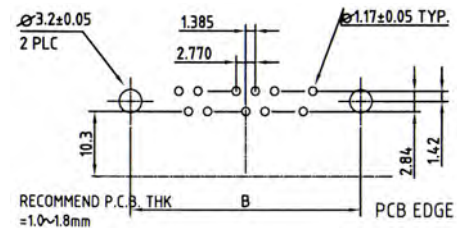
**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

**\*RoHS & REACH compliant.**



## Recommended P.C. Board Layout

N	(BLANK)
NJ	NH

## ORDERING INFORMATION:

P/N 5 1  $\frac{XX}{1}$  -  $\frac{XX}{2}$  T B /  $\frac{XX}{3}$

### 1. CONNECTOR TYPE:

"89" MALE

"90" FEMALE

### 2. NO. OF CONTACTS:

09, 15, 25, 37

### 3. MOUNTING OPTION:

" " LOCKED SCREWS (4.8MM)

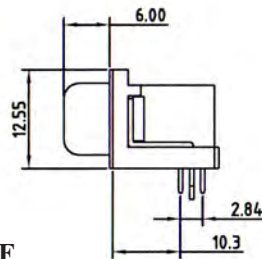
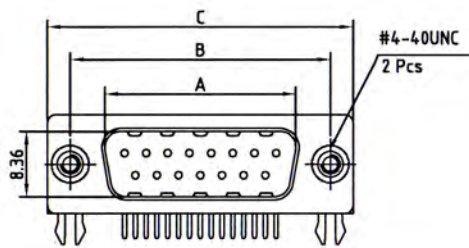
"N" WITHOUT SCREWS (5.8MM)

"NH" LOOSE SCREWS (4.8MM)

"NJ" ASSEMBLED SCREWS (4.8MM)

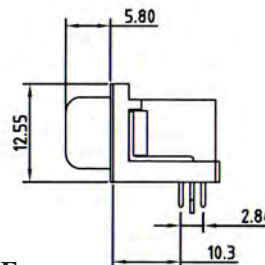
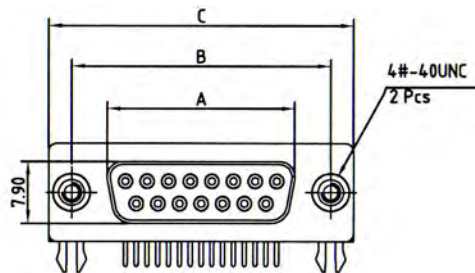
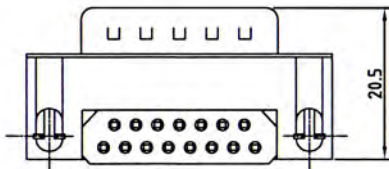


## D-SUB. CONNECTOR RIGHT ANGLE TYPE WITH FERRITE (CONTACT EXTENSION: 9.4MM)



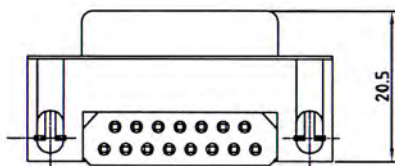
**5141F**

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.92	24.99	30.81
15	25.25	33.32	39.14
25	38.96	47.04	53.04
37	55.42	63.50	69.32



**5142F**

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.33	24.99	30.81
15	24.66	33.32	39.14
25	38.38	47.04	53.04
37	54.84	63.50	69.32

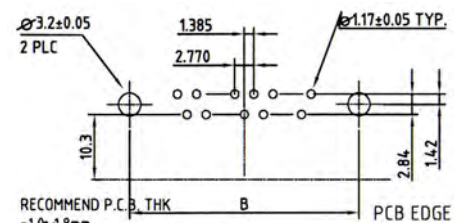


### SPECIFICATIONS

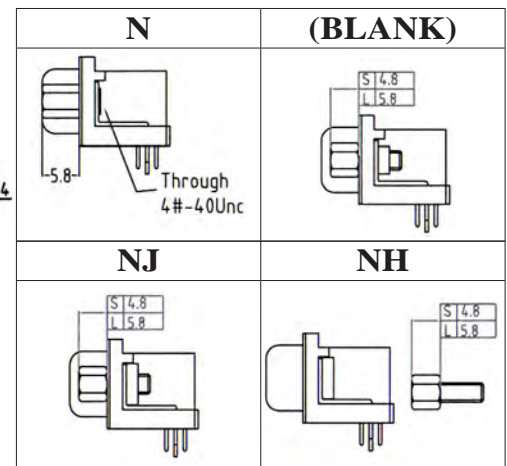
**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
**\*RoHS & REACH compliant.**



**Recommended P.C.Board Layout**

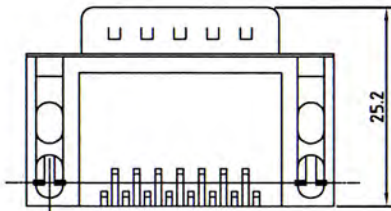
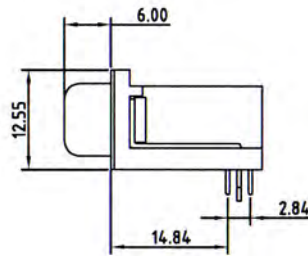
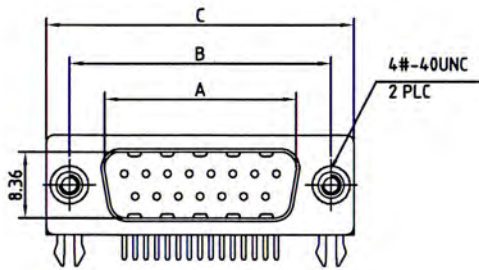


### ORDERING INFORMATION:

P/N 5 1  $\frac{XX}{1}$  F -  $\frac{XX}{2}$  T B /  $\frac{XX}{3}$

- CONNECTOR TYPE:  
 "41" MALE  
 "42" FEMALE
- NO. OF CONTACTS:  
 09, 15, 25, 37
- MOUNTING OPTION:  
 " " LOCKED SCREWS (4.8MM)  
 "N" WITHOUT SCREWS (5.8MM)  
 "NH" LOOSE SCREWS (4.8MM)  
 "NJ" ASSEMBLED SCREWS (4.8MM)

# D-SUB. CONNECTOR RIGHT ANGLE TYPE WITH STAMPED CONTACTS (CONTACT EXTENSION: 13.84MM)



## 5263

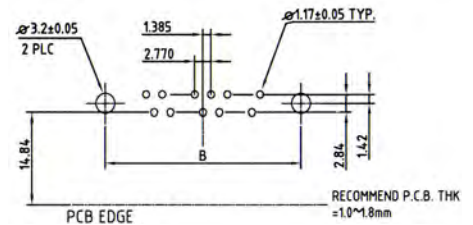
No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.92	24.99	30.81
15	25.25	33.32	39.14
25	38.96	47.04	53.04
37	55.42	63.50	69.32

## SPECIFICATIONS

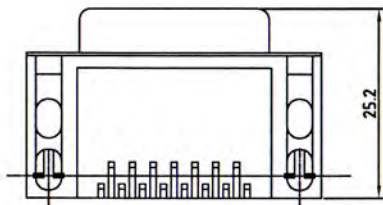
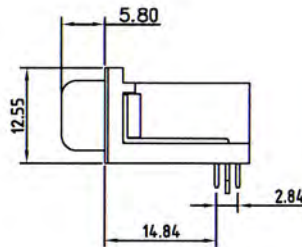
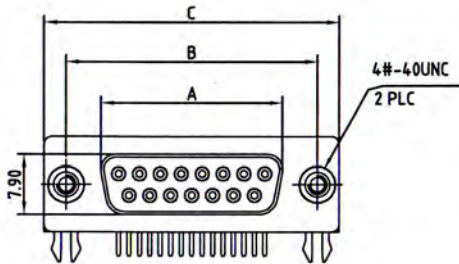
**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
**\*RoHS & REACH compliant.**

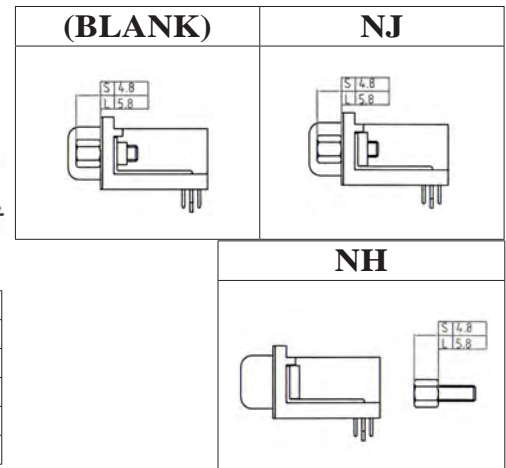


## Recommended P.C.Board Layout



## 5264

No. of Contacts	Dimensions(mm)		
	A	B	C
09	16.33	24.99	30.81
15	24.66	33.32	39.14
25	38.38	47.04	53.04
37	54.84	63.50	69.32



## ORDERING INFORMATION:

P/N 5 2  $\frac{x}{1}$  -  $\frac{x}{2}$  T B /  $\frac{x}{3}$

### 1. CONNECTOR TYPE:

"63" MALE  
 "64" FEMALE

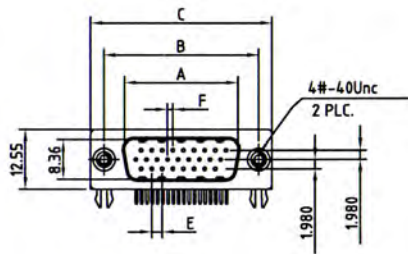
### 2. NO. OF CONTACTS:

09, 15, 25, 37

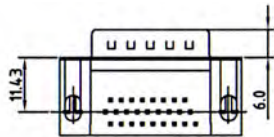
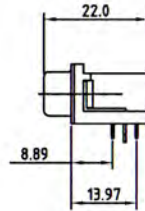
### 3. MOUNTING OPTION:

" " LOCKED SCREWS (4.8MM)  
 "N" WITHOUT SCREWS (5.8MM)  
 "NH" LOOSE SCREWS (4.8MM)  
 "NJ" ASSEMBLED SCREWS (4.8MM)

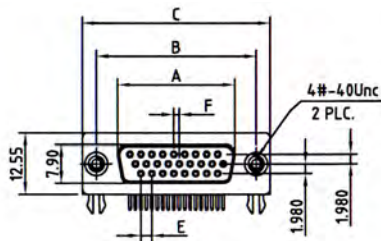
# D-SUB. HIGH DENSITY CONNECTOR RIGHT ANGLE TYPE WITH BOARDLOCKS (8.89MM STANDARD)



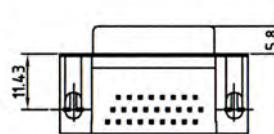
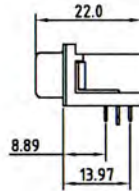
**5267**



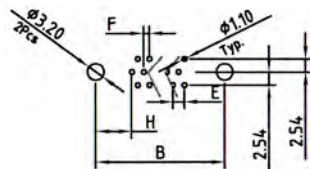
No. of Contacts	Dimensions(mm)					
	A	B	C	E	F	H
15	16.92	24.99	30.81	2.29	1.145	7.04
26	25.25	33.32	39.14	2.29	1.145	6.88
44	38.96	47.04	53.04	2.29	1.145	6.88
62	55.42	63.50	69.32	2.41	1.205	7.00



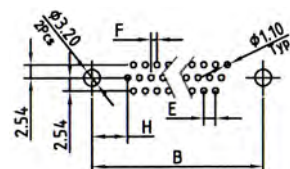
**5268**



No. of Contacts	Dimensions(mm)					
	A	B	C	E	F	H
15	16.33	24.99	30.81	2.29	1.145	7.04
26	24.66	33.32	39.14	2.29	1.145	6.88
44	38.38	47.04	53.04	2.29	1.145	6.88
62	54.84	63.50	69.32	2.41	1.205	7.00



Recommended P.C. Board Layout  
(15 POSITION)



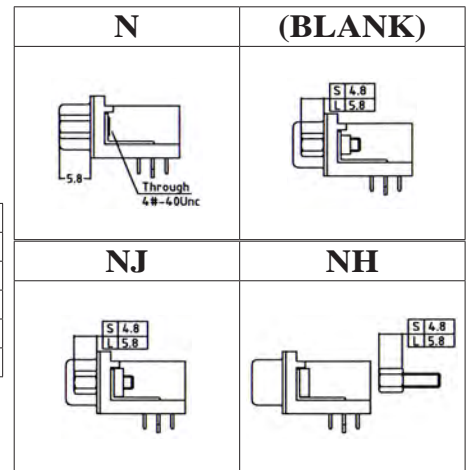
Recommended P.C. Board Layout  
(26, 44, 62 POSITION)

## SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
**\*RoHS & REACH compliant.**



## ORDERING INFORMATION:

P/N 5 2  $\frac{xx}{1}$  -  $\frac{xx}{2}$  T B /  $\frac{xx}{3}$

### 1. CONNECTOR TYPE:

"67" MALE  
 "68" FEMALE

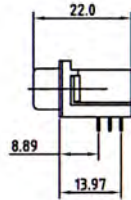
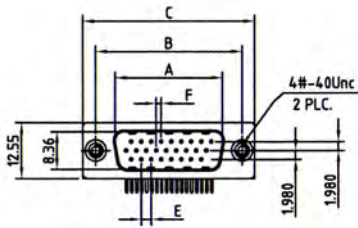
### 2. NO. OF CONTACTS:

15, 26, 44, 62

### 3. MOUNTING OPTION:

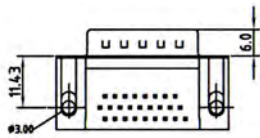
" " LOCKED SCREWS (4.8MM)  
 "N" WITHOUT SCREWS (5.8MM)  
 "NH" LOOSE SCREWS (4.8MM)  
 "NJ" ASSEMBLED SCREWS (4.8MM)

# D-SUB. HIGH DENSITY CONNECTOR RIGHT ANGLE TYPE WITHOUT BOARDLOCKS (8.89MM)



**5267**

No. of Contacts	Dimensions(mm)					
	A	B	C	E	F	H
15	16.92	24.99	30.81	2.29	1.145	7.04
26	25.25	33.32	39.14	2.29	1.145	6.88
44	38.96	47.04	53.04	2.29	1.145	6.88
62	55.42	63.50	69.32	2.41	1.205	7.00

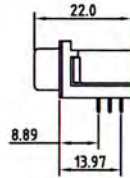
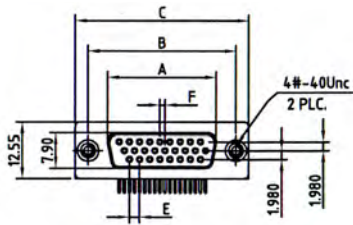


## SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

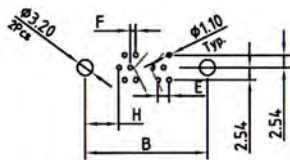
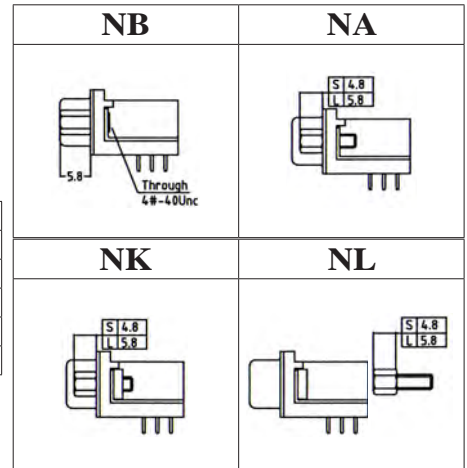
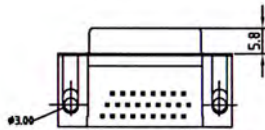
## MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass,Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
**\*RoHS & REACH compliant.**

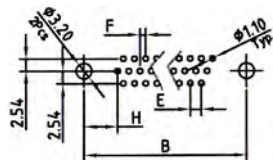


**5268**

No. of Contacts	Dimensions(mm)					
	A	B	C	E	F	H
15	16.33	24.99	30.81	2.29	1.145	7.04
26	24.66	33.32	39.14	2.29	1.145	6.88
44	38.38	47.04	53.04	2.29	1.145	6.88
62	54.84	63.50	69.32	2.41	1.205	7.00



Recommended P.C.Board Layout (15 POSITION)



Recommended P.C.Board Layout (26, 44, 62 POSITION)

## ORDERING INFORMATION:

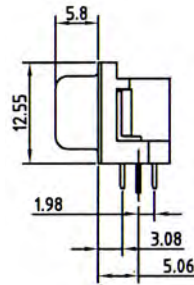
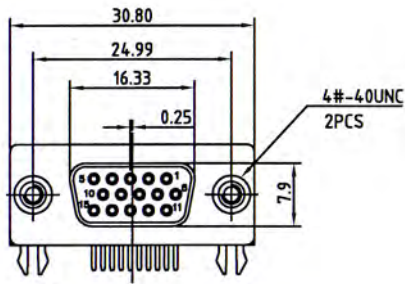
P/N 5 2  $\frac{xx}{1}$  -  $\frac{xx}{2}$  T B /  $\frac{xx}{3}$

- CONNECTOR TYPE:  
 "67" MALE  
 "68" FEMALE
- NO. OF CONTACTS:  
 15, 26, 44, 62, 78

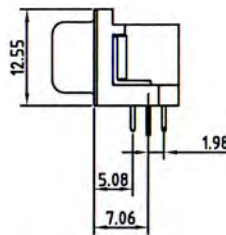
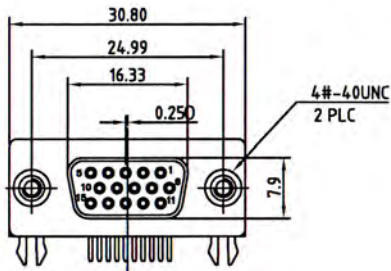
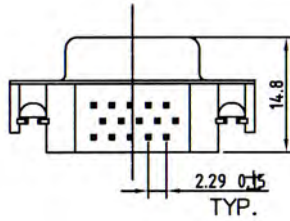
- MOUNTING OPTION:  
 "NA" LOCKED SCREWS (4.8MM)  
 "NB" WITHOUT SCREWS (5.8MM)  
 "NL" LOOSE SCREWS (4.8MM)  
 "NK" ASSEMBLED SCREWS (4.8MM)



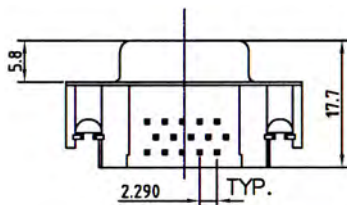
## D-SUB. HIGH DENSITY FEMALE CONNECTOR RIGHT ANGLE TYPE (OPTIONAL: 3.08MM & 5.08MM)



5180



5186



### SPECIFICATIONS

**Current Rating:** 3.0 Amperes

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

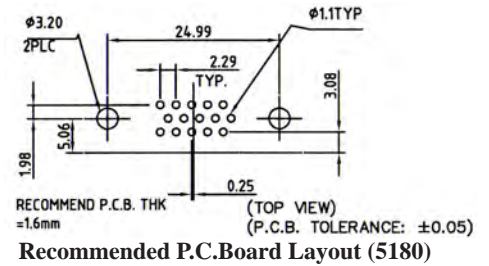
**Contact:** Brass

**Shell:** Brass, Steel

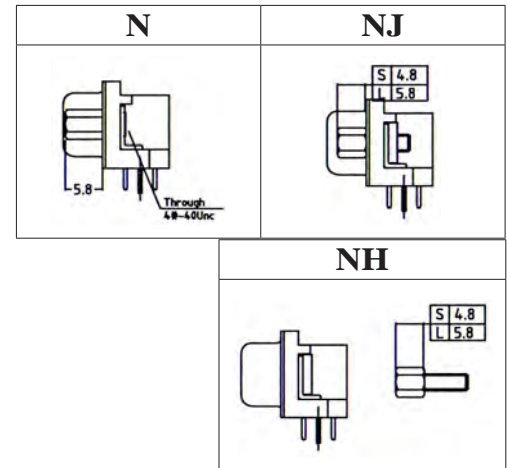
**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.



Recommended P.C. Board Layout (5180)



### ORDERING INFORMATION:

P/N 5 1  $\frac{xx}{1}$  - 1.5 T B /  $\frac{xx}{3}$

#### 1. CONNECTOR TYPE:

"80" FEMALE WITH EXTENSION= 3.08MM

"86" FEMALE WITH EXTENSION= 5.08MM

#### 2. NO. OF CONTACTS:

15

#### 3. MOUNTING OPTION:

" " LOCKED SCREWS (4.8MM)

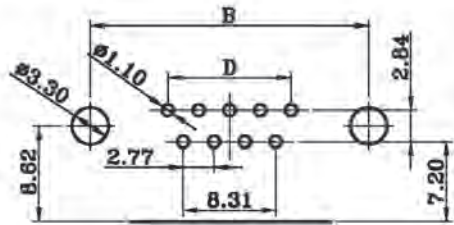
"N" WITHOUT SCREWS (5.8MM)

"NH" LOOSE SCREWS (4.8MM)

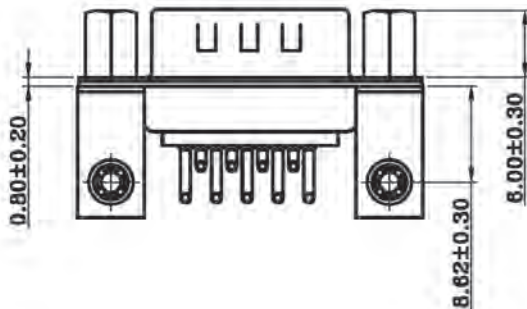
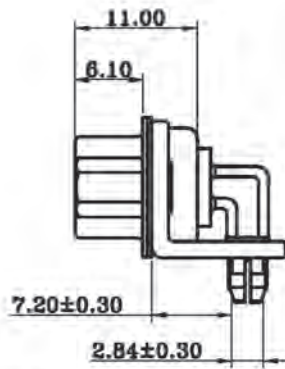
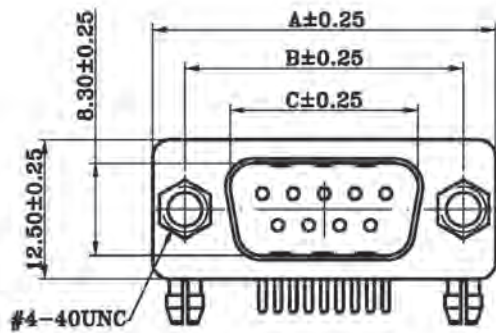
"NJ" ASSEMBLED SCREWS (4.8MM)



# D-SUB. 9, 15, 25, 37 PIN RIGHT ANGLE MALE CONNECTOR WITH MACHINED CONTACTS & METAL BRACKETS (7.2MM)



Recommended P.C.Board Layout



## SPECIFICATIONS

- Current Rating:** 5 Amp
- Contact Resistance:** 10MΩ Max.
- Dielectric Withstanding Voltage:** 1000V AC Min.
- Insulation Resistance:** 5GΩ Min.
- Operating Temperature:** -55°C to +125°C

## MATERIALS

- Shell:** Steel, Front Shell Tin Finished  
Back Shell Tin Finished
- Insulator:** PBT Thermoplastic, 30% Glass Filled, UL94V-0
- Single Contact:** Copper Alloy, Gold Flash
- \*RoHS & REACH compliant.

No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	30.80	25.00	16.90	11.08
15	39.20	33.30	25.25	19.39
25	53.05	47.05	38.95	33.24
37	69.40	63.50	55.40	49.86

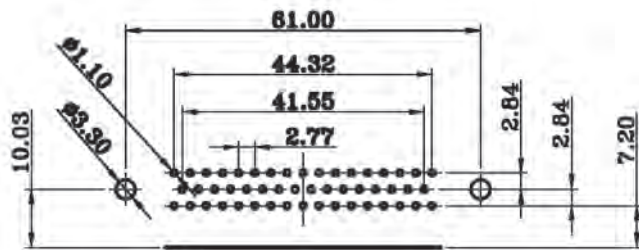
## ORDERING INFORMATION:

P/N 5747 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{T}{3}$   $\frac{x}{4}$  /  $\frac{RV}{5}$

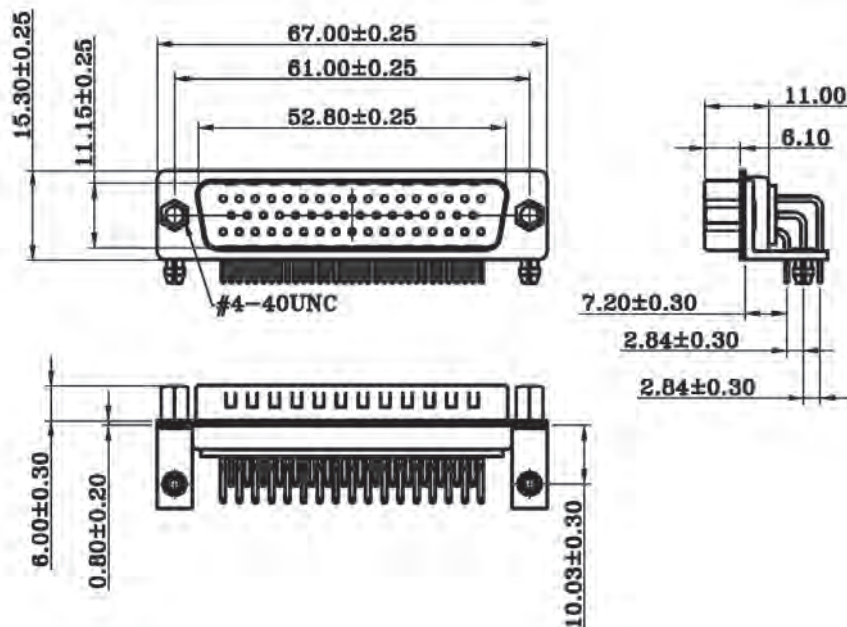
1. CONNECTOR TYPE & FOOTPRINT:  
"47" MALE WITH FOOTPRINT=7.2MM
2. NO. OF CONTACTS:  
09, 15, 25, 37
3. SHELL FINISH:  
"T" FULL TIN PLATED
4. INSULATOR COLOR:  
"B" BLACK  
"W" WHITE
5. MOUNTING TYPE:  
"RV" METAL BRACKET #4-40 UNC WITH NUTS



## D-SUB. 50 PIN RIGHT ANGLE MALE CONNECTOR WITH MACHINED CONTACTS & METAL BRACKETS (7.2MM)



Recommended P.C.Board Layout



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Contact Resistance:** 10MΩ Max.

**Dielectric Withstanding Voltage:**  
1000V AC Min.

**Insulation Resistance:** 5GΩ Min.

**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Shell:** Steel, Front Shell Tin Finished  
Back Shell Tin Finished

**Insulator:** PBT Thermoplastic, 30% Glass  
Filled, UL94V-0

**Single Contact:** Copper Alloy, Gold Flash

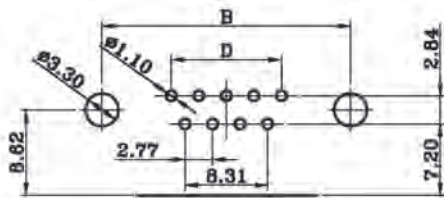
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

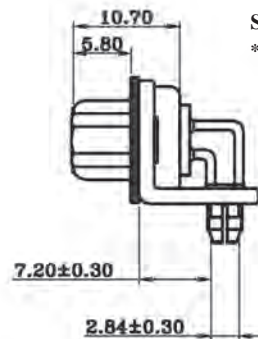
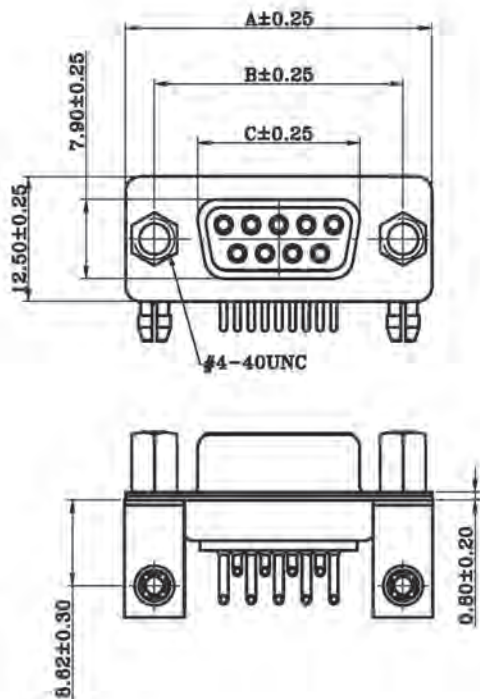
P/N 5747-50T<sub>1</sub>x/RV<sub>5</sub>

1. CONNECTOR TYPE & FOOTPRINT:  
"47" MALE WITH FOOTPRINT=7.2MM
2. NO. OF CONTACTS:  
50
3. SHELL FINISH:  
"T" FULL TIN PLATED
4. INSULATOR COLOR:  
"B" BLACK  
"W" WHITE
5. MOUNTING TYPE:  
"RV" METAL BRACKET #4-40 UNC  
WITH NUTS

## D-SUB. 9, 15, 25, 37 PIN RIGHT ANGLE FEMALE CONNECTOR WITH MACHINED CONTACTS & METAL BRACKETS (7.2MM)



Recommended P.C.Board Layout



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Contact Resistance:** 10MΩ Max.

**Dielectric Withstanding Voltage:** 1000V AC Min.

**Insulation Resistance:** 5GΩ Min.

**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Shell:** Steel, Front Shell Tin Finished  
Back Shell Tin Finished

**Insulator:** PBT Thermoplastic, 30% Glass Filled, UL94V-0

**Single Contact:** Copper Alloy, Gold Flash

\*RoHS & REACH compliant.

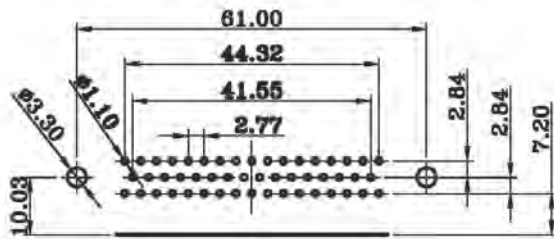
No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	30.80	25.00	16.90	11.08
15	39.20	33.30	24.60	19.39
25	53.05	47.05	38.40	33.24
37	69.40	63.50	55.80	49.86

### ORDERING INFORMATION:

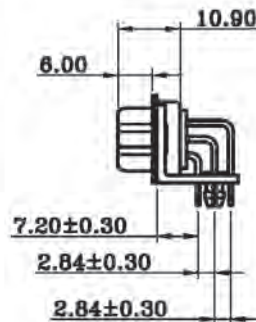
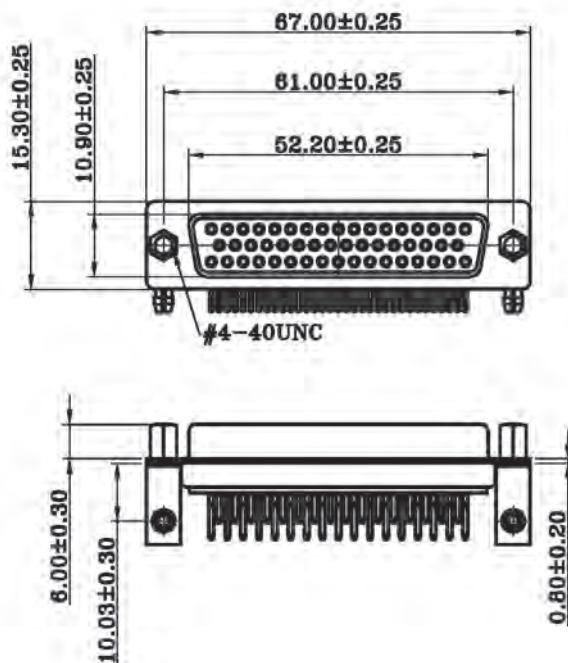
P/N 5 7 4 8 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{T}{3}$   $\frac{x}{4}$  /  $\frac{R}{5}$   $\frac{V}{5}$

- CONNECTOR TYPE & FOOTPRINT:  
"48" FEMALE WITH FOOTPRINT=7.2MM
- NO. OF CONTACTS:  
09, 15, 25, 37
- SHELL FINISH:  
"T" FULL TIN PLATED
- INSULATOR COLOR:  
"B" BLACK  
"W" WHITE
- MOUNTING TYPE:  
"RV" METAL BRACKET #4-40 UNC WITH NUTS

## D-SUB. 50 PIN RIGHT ANGLE FEMALE CONNECTOR WITH MACHINED CONTACTS & METAL BRACKETS (7.2MM)



Recommended P.C.Board Layout



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Contact Resistance:** 10MΩ Max.

**Dielectric Withstanding Voltage:**  
1000V AC Min.

**Insulation Resistance:** 5GΩ Min.

**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Shell:** Steel, Front Shell Tin Finished

Back Shell Tin Finished

**Insulator:** PBT Thermoplastic, 30% Glass  
Filled, UL94V-0

**Single Contact:** Copper Alloy, Gold Flash

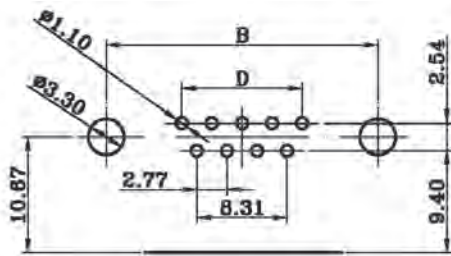
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

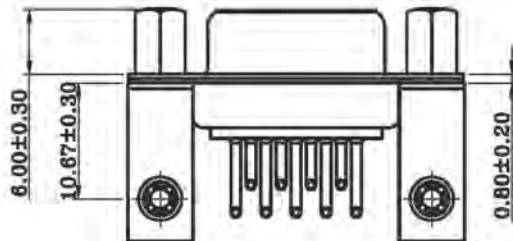
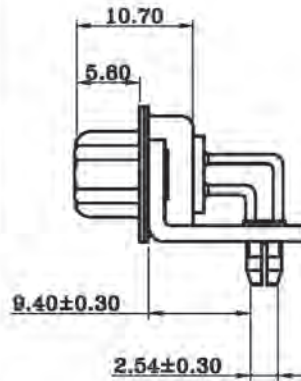
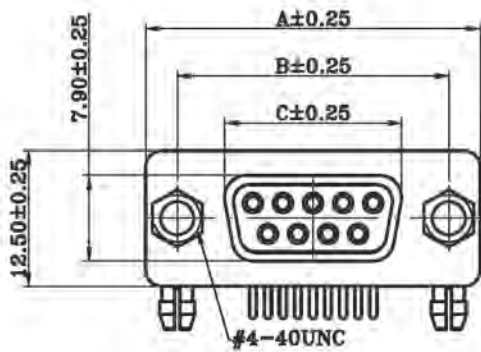
P/N  $\frac{5}{1} \frac{7}{2} \frac{4}{3} \frac{8}{4} - \frac{50}{5} \frac{T}{x} / \frac{R}{V}$

1. CONNECTOR TYPE & FOOTPRINT:  
"48" FEMALE WITH FOOTPRINT=7.2MM
2. NO. OF CONTACTS:  
50
3. SHELL FINISH:  
"T" FULL TIN PLATED
4. INSULATOR COLOR:  
"B" BLACK  
"W" WHITE
5. MOUNTING TYPE:  
"RV" METAL BRACKET #4-40 UNC  
WITH NUTS

# D-SUB. 9, 15, 25, 37 PIN RIGHT ANGLE MALE CONNECTOR WITH MACHINED CONTACTS & METAL BRACKETS (9.4MM)



Recommended P.C.Board Layout



## SPECIFICATIONS

**Current Rating:** 5 Amp

**Contact Resistance:** 10MΩ Max.

**Dielectric Withstanding Voltage:** 1000V AC Min.

**Insulation Resistance:** 5GΩ Min.

**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Shell:** Steel, Front Shell Tin Finished

Back Shell Tin Finished

**Insulator:** PBT Thermoplastic, 30% Glass Filled, UL94V-0

**Single Contact:** Copper Alloy, Gold Flash

\*RoHS & REACH compliant.

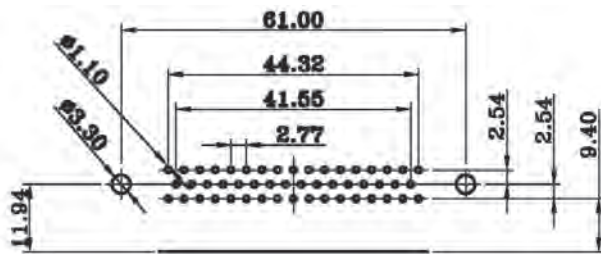
No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	30.80	25.00	16.90	11.08
15	39.20	33.30	25.25	19.39
25	53.05	47.05	38.95	33.24
37	69.40	63.50	55.40	49.86

## ORDERING INFORMATION:

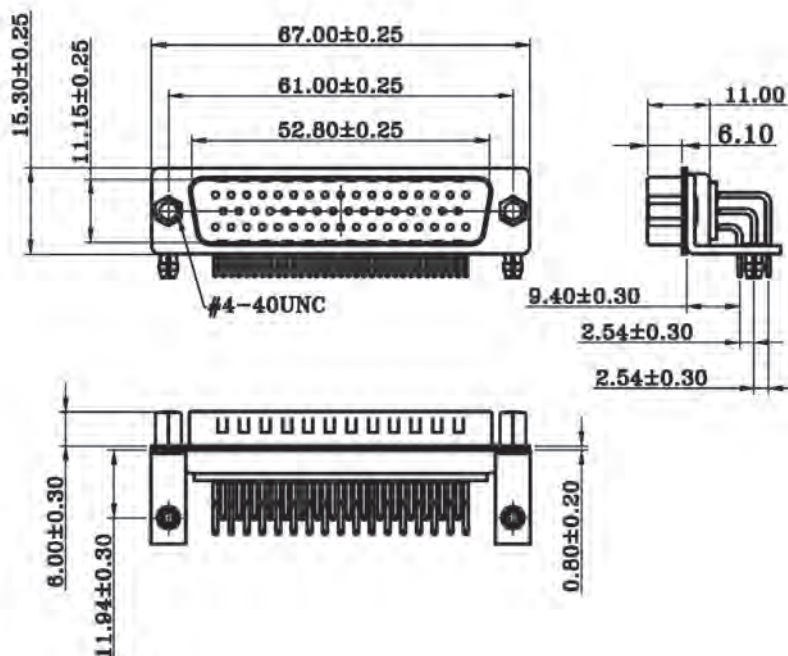
P/N 5749 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{T}{3}$   $\frac{x}{4}$  /  $\frac{R}{5}$  V

- CONNECTOR TYPE & FOOTPRINT:  
"49" MALE WITH FOOTPRINT=9.4MM
- NO. OF CONTACTS:  
09, 15, 25, 37
- SHELL FINISH:  
"T" FULL TIN PLATED
- INSULATOR COLOR:  
"B" BLACK  
"W" WHITE
- MOUNTING TYPE:  
"RV" METAL BRACKET #4-40 UNC WITH NUTS

## D-SUB. 50 PIN RIGHT ANGLE MALE CONNECTOR WITH MACHINED CONTACTS & METAL BRACKETS (9.4MM)



Recommended P.C.Board Layout



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Contact Resistance:** 10MΩ Max.

**Dielectric Withstanding Voltage:**  
1000V AC Min.

**Insulation Resistance:** 5GΩ Min.

**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Shell:** Steel, Front Shell Tin Finished

Back Shell Tin Finished

**Insulator:** PBT Thermoplastic, 30% Glass  
Filled, UL94V-0

**Single Contact:** Copper Alloy, Gold Flash

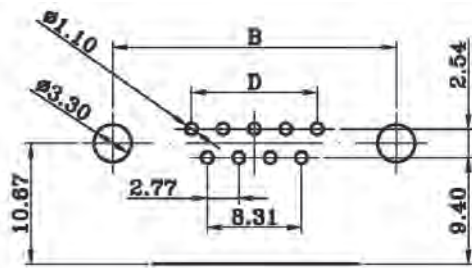
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

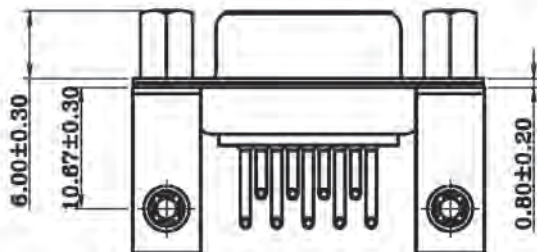
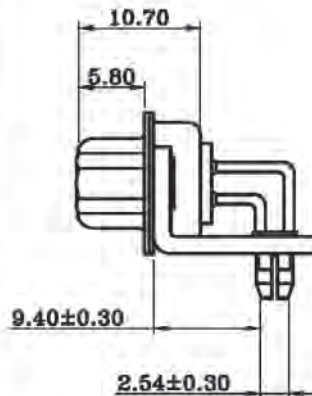
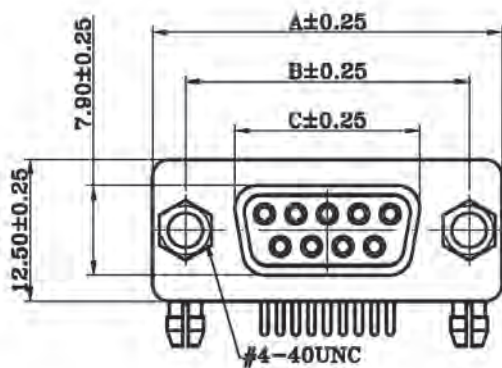
P/N 5749-50T<sub>1</sub>x/RV<sub>5</sub>

- CONNECTOR TYPE & FOOTPRINT:  
"49" MALE WITH FOOTPRINT=9.4MM
- NO. OF CONTACTS:  
50
- SHELL FINISH:  
"T" FULL TIN PLATED
- INSULATOR COLOR:  
"B" BLACK  
"W" WHITE
- MOUNTING TYPE:  
"RV" METAL BRACKET #4-40 UNC  
WITH NUTS

## D-SUB. 9, 15, 25, 37 PIN RIGHT ANGLE FEMALE CONNECTOR WITH MACHINED CONTACTS & METAL BRACKETS (9.4MM)



Recommended P.C.Board Layout



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Contact Resistance:** 10MΩ Max.

**Dielectric Withstanding Voltage:** 1000V AC Min.

**Insulation Resistance:** 5GΩ Min.

**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Shell:** Steel, Front Shell Tin Finished  
Back Shell Tin Finished

**Insulator:** PBT Thermoplastic, 30% Glass Filled, UL94V-0

**Single Contact:** Copper Alloy, Gold Flash

\*RoHS & REACH compliant.

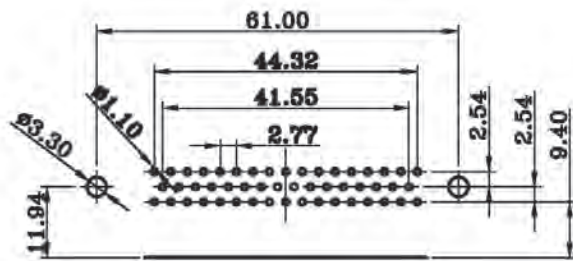
No. of Contacts	Dimensions(mm)			
	A	B	C	D
09	30.80	25.00	16.30	11.08
15	39.20	33.30	24.60	19.39
25	53.05	47.05	38.40	33.24
37	69.40	63.50	55.80	49.86

### ORDERING INFORMATION:

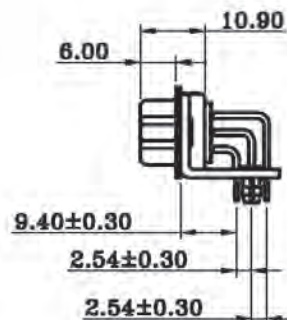
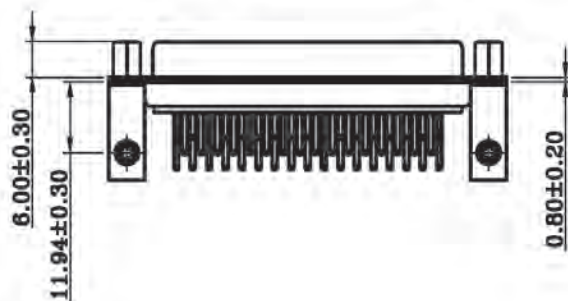
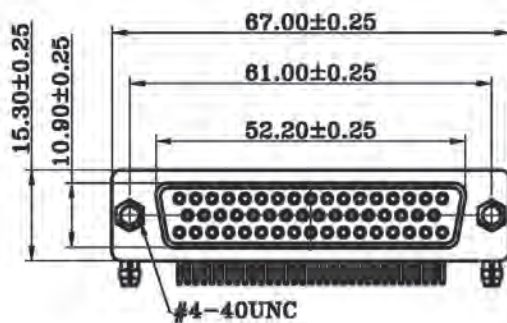
P/N 57  $\frac{50}{1}$  -  $\frac{x}{2}$   $\frac{x}{3}$   $\frac{T}{4}$   $\frac{x}{5}$  / R V

- CONNECTOR TYPE & FOOTPRINT:  
"50" FEMALE WITH FOOTPRINT=9.4MM
- NO. OF CONTACTS:  
09, 15, 25, 37
- SHELL FINISH:  
"T" FULL TIN PLATED
- INSULATOR COLOR:  
"B" BLACK  
"W" WHITE
- MOUNTING TYPE:  
"RV" METAL BRACKET #4-40 UNC WITH NUTS

## D-SUB. 50 PIN RIGHT ANGLE FEMALE CONNECTOR WITH MACHINED CONTACTS & METAL BRACKETS (9.4MM)



Recommended P.C.Board Layout



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Contact Resistance:** 10MΩ Max.

**Dielectric Withstanding Voltage:**  
1000V AC Min.

**Insulation Resistance:** 5GΩ Min.

**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Shell:** Steel, Front Shell Tin Finished  
Back Shell Tin Finished

**Insulator:** PBT Thermoplastic, 30% Glass  
Filled, UL94V-0

**Single Contact:** Copper Alloy, Gold Flash

\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N  $57 \frac{50}{1} - 50 \frac{T}{2} \frac{x}{3} \frac{RV}{4} \frac{5}{5}$

1. CONNECTOR TYPE & FOOTPRINT:  
"50" FEMALE WITH FOOTPRINT=9.4MM
2. NO. OF CONTACTS:  
50
3. SHELL FINISH:  
"T" FULL TIN PLATED
4. INSULATOR COLOR:  
"B" BLACK  
"W" WHITE
5. MOUNTING TYPE:  
"RV" METAL BRACKET #4-40 UNC  
WITH NUTS

## SLIM DB9 MALE CONNECTOR RIGHT ANGLE DIP TYPE

### SPECIFICATIONS

**Current Rating:** 5 Ampere

**Contact Resistance:** 20mΩ Max. at DC 100mA

**Insulation Resistance:** 1000MΩ Min. at 500V DC

**Withstanding Voltage:** 1000V AC

**Operating Temperature:** -55°C to +125°C

**Max Processing Temperature:**

210°C for 30-60 Seconds

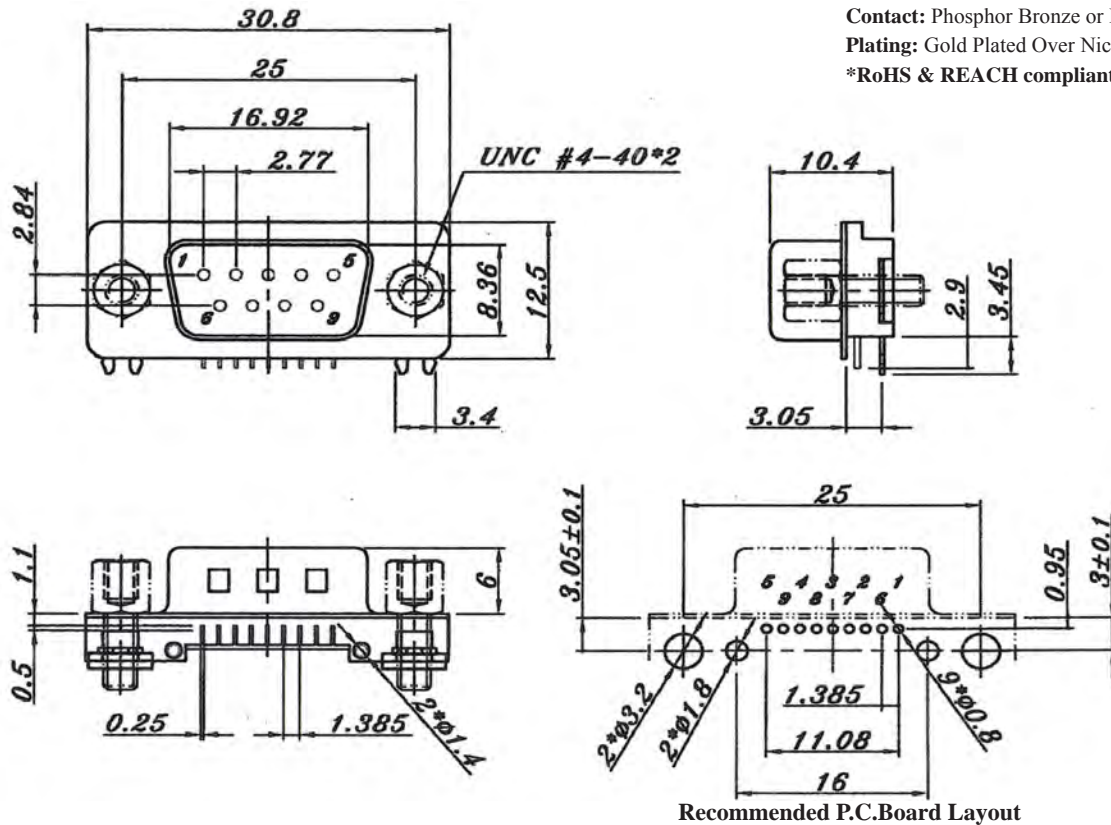
### MATERIALS

**Insulator:** NY9T, UL94V-0

**Contact:** Phosphor Bronze or Brass

**Plating:** Gold Plated Over Nickel in Contact Area

\*RoHS & REACH compliant.



### ORDERING INFORMATION:

P/N 5 299 - DB09 RA / XX

1. CONNECTOR TYPE:

"299" MALE

2. NO. OF CONTACTS:

"DB09" DB9M

3. TERMINAL TYPE:

"RA" R/A DIP TYPE

4. FLANGE MOUNTING OPTION:

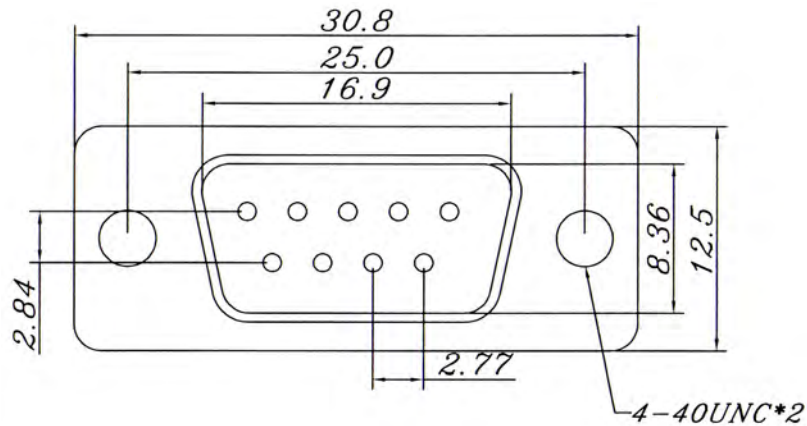
"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS

"NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS



# SLIM DB9 MALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE



## SPECIFICATIONS

**Current Rating:** 1.0 Ampere

**Contact Resistance:** 20mΩ Max. at DC 100mA

**Insulation Resistance:** 500MΩ Min. at 500V DC

**Operating Temperature:** -65°C to +125°C

**Max Processing Temperature:**

230°C for 30~60 Seconds

## MATERIALS

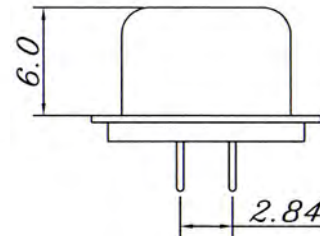
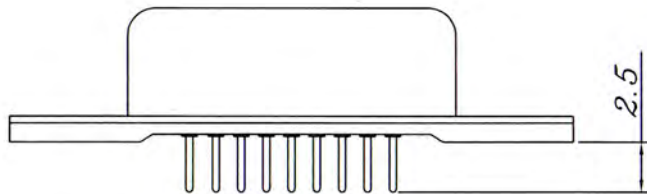
**Insulator:** High Temperature Housing (UL94V-0)

IR and VPR Soldering Methods.

**Contact:** Phosphor Bronze

**Plated:** Selective Gold Plated

\*RoHS & REACH compliant.



## ORDERING INFORMATION:

P/N 5 299 - DB09 STR

1 2 3

1. CONNECTOR TYPE:  
"299" MALE
2. NO. OF CONTACTS:  
"DB09" DB9M MACHINED PINS
3. TERMINAL TYPE:  
"STR" STRAIGHT DIP TYPE

## SLIM DB9 MALE CONNECTOR RIGHT ANGLE SMT TYPE

### SPECIFICATIONS

**Current Rating:** 5 Ampere

**Contact Resistance:** 20mΩ Max. at DC 100mA

**Insulation Resistance:** 1000MΩ Min. at 500V DC

**Withstanding Voltage:** 1000V AC

**Operating Temperature:** -55°C to +125°C

**Max Processing Temperature:**

230°C for 60 Seconds

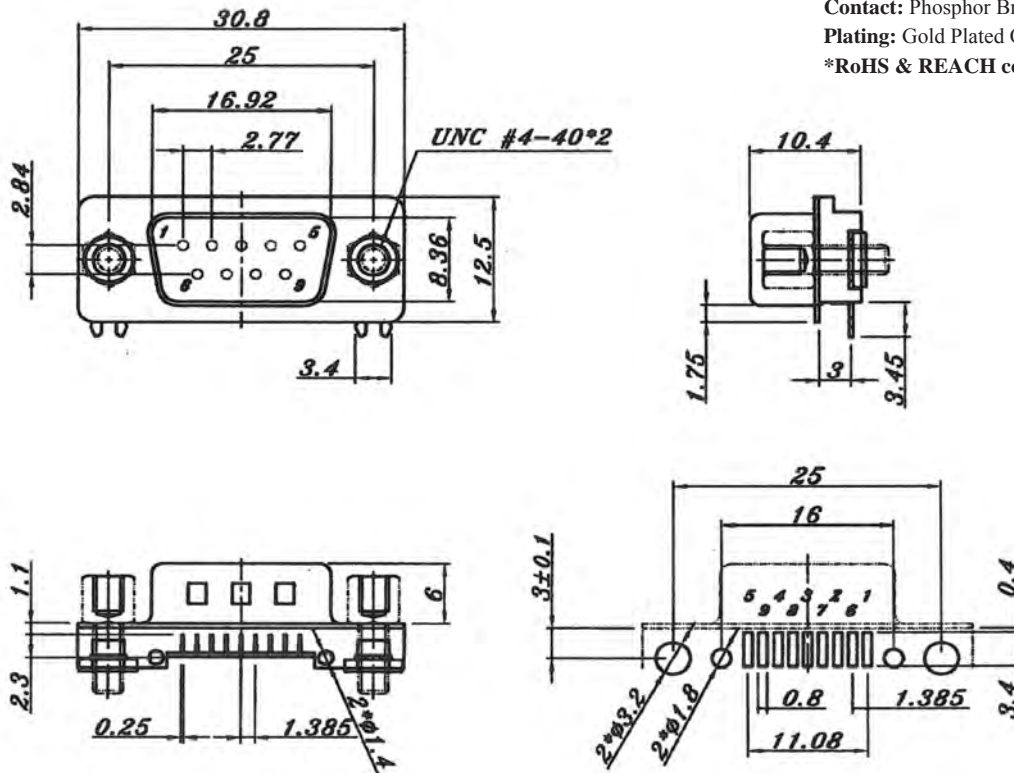
### MATERIALS

**Insulator:** NY9T, UL94V-0

**Contact:** Phosphor Bronze or Brass

**Plating:** Gold Plated Over Nickel in Contact Area

\*RoHS & REACH compliant.



Recommended P.C.Board Layout

### ORDERING INFORMATION:

P/N 5 299 - DB09 SMT / XX

1. CONNECTOR TYPE:  
"299" MALE
2. NO. OF CONTACTS:  
"DB09" DB9M
3. TERMINAL TYPE:  
"SMT" R/A SMT TYPE

4. FLANGE MOUNTING OPTION:  
"N" #4-40UNC THREADED HOLES  
WITHOUT HEX SCREW BOLTS  
"NH" #4-40UNC THREADED HOLES  
WITH BULK-PACKED (LOOSE)  
#4-40UNC HEX SCREW BOLTS  
"NJ" #4-40UNC THREADED HOLES  
WITH INSTALLED (ASSEMBLED)  
#4-40UNC HEX SCREW BOLTS

## SLIM DB9 FEMALE CONNECTOR RIGHT ANGLE DIP TYPE

### SPECIFICATIONS

**Current Rating:** 5 Ampere

**Contact Resistance:** 20mΩ Max. at DC 100mA

**Insulation Resistance:** 1000MΩ Min. at 500V DC

**Withstanding Voltage:** 1000V AC

**Operating Temperature:** -55°C to +125°C

**Max Processing Temperature:**

210°C for 30-60 Seconds

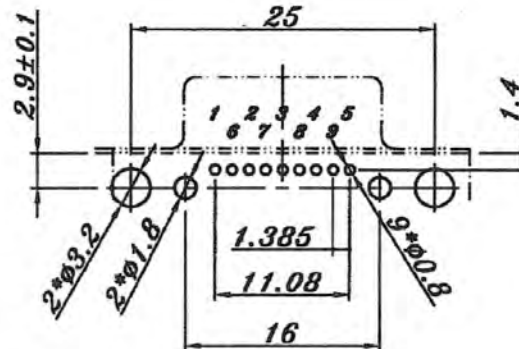
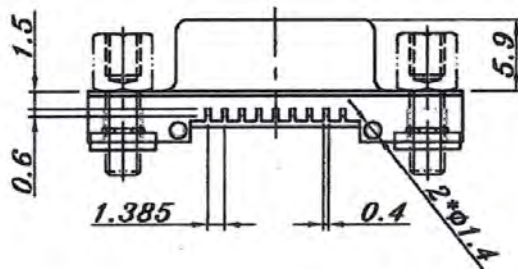
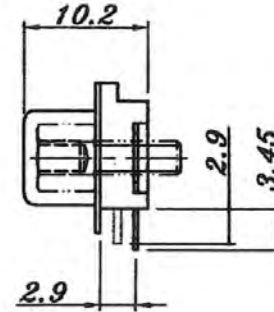
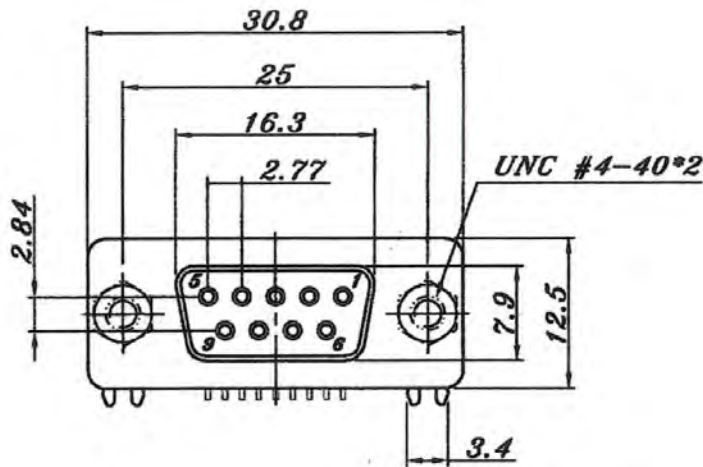
### MATERIALS

**Insulator:** NY9T, UL94V-0

**Contact:** Phosphor Bronze or Brass

**Plating:** Gold Plated Over Nickel in Contact Area

\*RoHS & REACH compliant.



Recommended P.C.Board Layout

### ORDERING INFORMATION:

P/N 5 300 - DB09 RA / XX

1. CONNECTOR TYPE:

"300" FEMALE

2. NO. OF CONTACTS:

"DB09" DB9F

3. TERMINAL TYPE:

"RA" R/A DIP TYPE

4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS

"NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

## SLIM DB9 FEMALE CONNECTOR RIGHT ANGLE SMT TYPE

### SPECIFICATIONS

**Current Rating:** 5 Ampere

**Contact Resistance:** 20mΩ Max. at DC 100mA

**Insulation Resistance:** 1000MΩ Min. at 500V DC

**Withstanding Voltage:** 1000V AC

**Operating Temperature:** -55°C to +125°C

**Max Processing Temperature:**

210°C for 30-60 Seconds

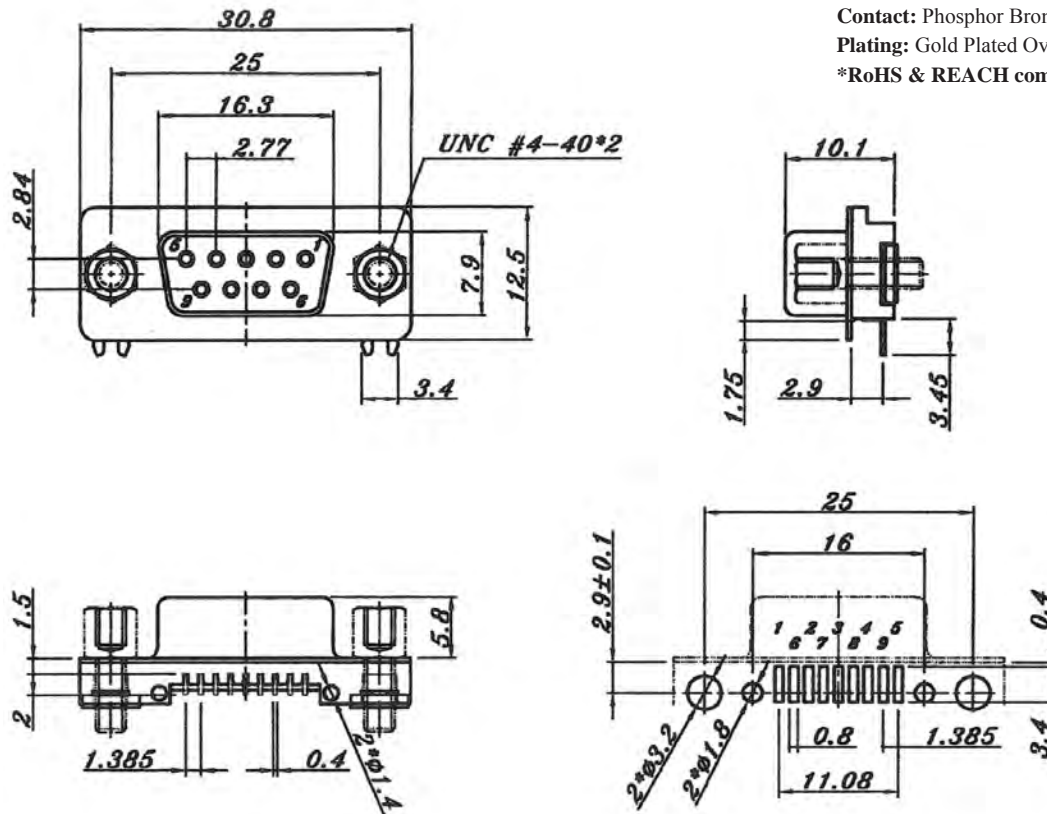
### MATERIALS

**Insulator:** NY9T, UL94V-0

**Contact:** Phosphor Bronze or Brass

**Plating:** Gold Plated Over Nickel in Contact Area

\*RoHS & REACH compliant.



Recommended P.C.Board Layout

### ORDERING INFORMATION:

P/N 5 300 - DB09 SMT / XX

1. CONNECTOR TYPE:

"300" FEMALE

2. NO. OF CONTACTS:

"DB09" DB9F

3. TERMINAL TYPE:

"SMT" R/A SMT TYPE

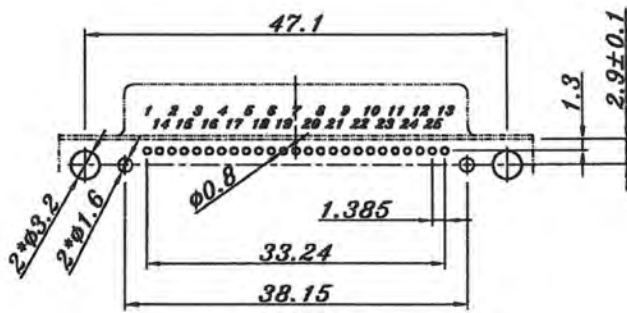
4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS

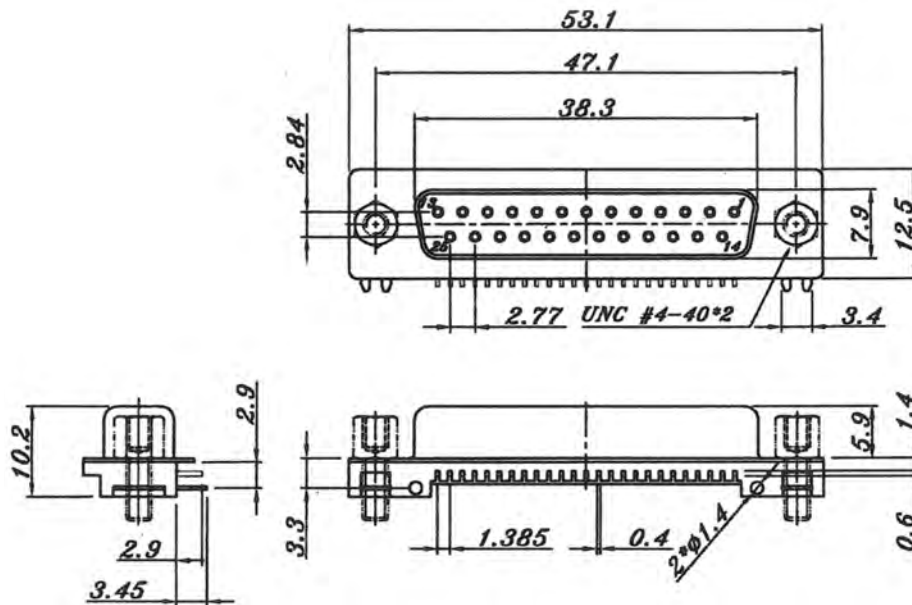
"NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS

"NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

## SLIM DB25 FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout



### SPECIFICATIONS

**Current Rating:** 5 Ampere

**Contact Resistance:** 20mΩ Max. at DC 100mA

**Insulation Resistance:** 1000MΩ Min. at 500V DC

**Withstanding Voltage:** 1000V AC

**Operating Temperature:** -55°C to +125°C

**Max Processing Temperature:**

230°C for 60 Seconds

### MATERIALS

**Insulator:** NY9T, UL94V-0

**Contact:** Phosphor Bronze or Brass

**Plating:** Gold Plated Over Nickel in Contact Area

\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N 5 300 - DB25 RA / XX

1. CONNECTOR TYPE:

"300" FEMALE

2. NO. OF CONTACTS:

"DB25" DB25F

3. TERMINAL TYPE:

"RA" R/A DIP TYPE

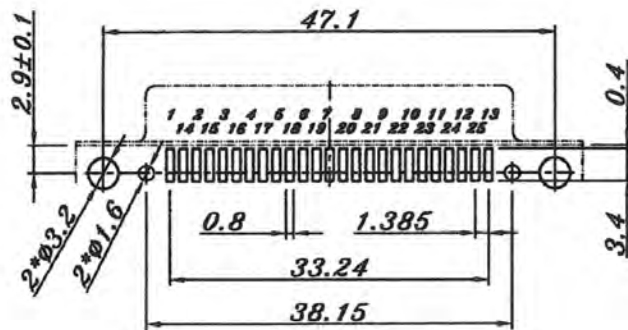
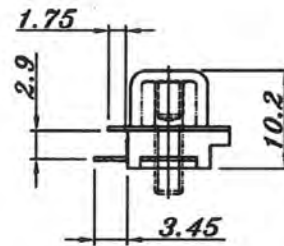
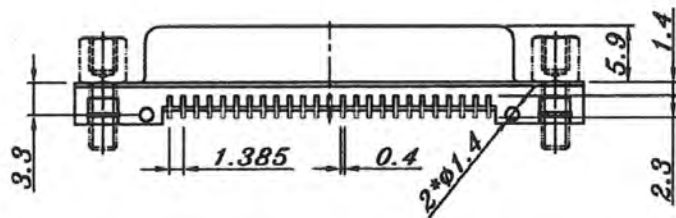
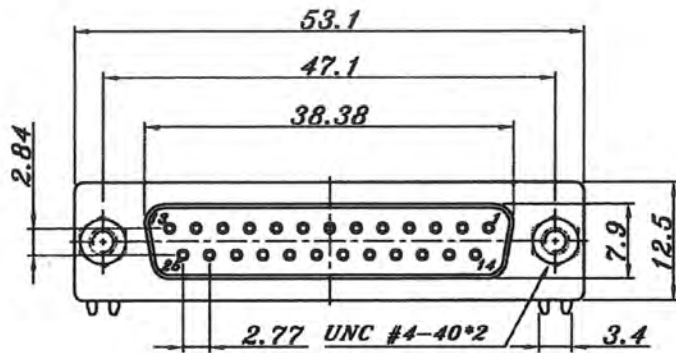
4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES  
WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES  
WITH BULK-PACKED (LOOSE)  
#4-40UNC HEX SCREW BOLTS

"NJ" #4-40UNC THREADED HOLES  
WITH INSTALLED (ASSEMBLED)  
#4-40UNC HEX SCREW BOLTS

## SLIM DB25 FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



Recommended P.C.Board Layout

### SPECIFICATIONS

**Current Rating:** 5 Ampere

**Contact Resistance:** 20mΩ Max. at DC 100mA

**Insulation Resistance:** 1000MΩ Min. at 500V DC

**Withstanding Voltage:** 1000V AC

**Operating Temperature:** -55°C to +125°C

**Max Processing Temperature:**

230°C for 60 Seconds

### MATERIALS

**Insulator:** NY9T, UL94V-0

**Contact:** Phosphor Bronze or Brass

**Plating:** Gold Plated Over Nickel in Contact Area

\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N 5 300 - DB25 SMT / XX

1. CONNECTOR TYPE:

"300" FEMALE

2. NO. OF CONTACTS:

"DB25" DB25F

3. TERMINAL TYPE:

"SMT" R/A SMT TYPE

4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS

"NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

## SLIM HD15 FEMALE CONNECTOR RIGHT ANGLE DIP TYPE

### SPECIFICATIONS

**Current Rating:** 5 Ampere

**Contact Resistance:** 20mΩ Max. at DC 100mA

**Insulation Resistance:** 1000MΩ Min. at 500V DC

**Withstanding Voltage:** 1000V AC

**Operating Temperature:** -55°C to +125°C

**Max Processing Temperature:**

230°C for 60 Seconds

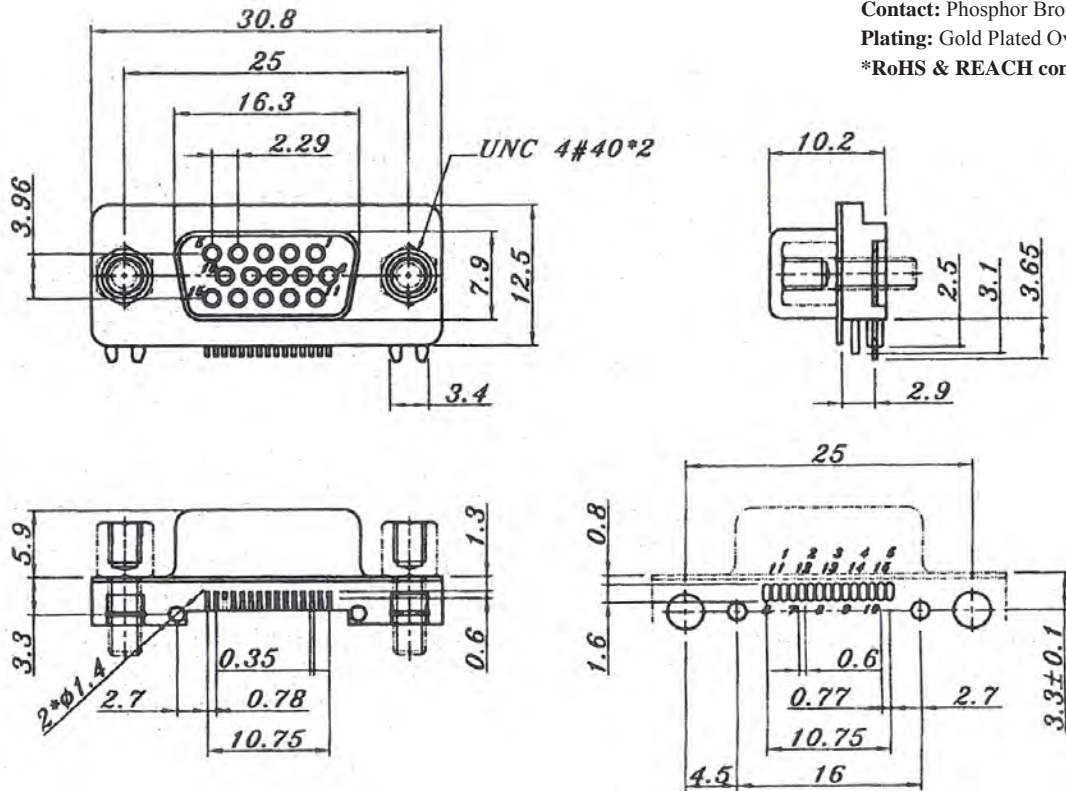
### MATERIALS

**Insulator:** NY9T, UL94V-0

**Contact:** Phosphor Bronze or Brass

**Plating:** Gold Plated Over Nickel in Contact Area

\*RoHS & REACH compliant.



Recommended P.C.Board Layout

### ORDERING INFORMATION:

P/N 5 300 - HD15 RA / XX

#### 1. CONNECTOR TYPE:

"300" FEMALE

#### 2. NO. OF CONTACTS:

"HD15" HIGH DENSITY D-SUB 15P

#### 3. TERMINAL TYPE:

"RA" R/A DIP TYPE

#### 4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS

"NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

## SLIM HD15 FEMALE CONNECTOR RIGHT ANGLE SMT TYPE

### SPECIFICATIONS

**Current Rating:** 5 Ampere

**Contact Resistance:** 20mΩ Max. at DC 100mA

**Insulation Resistance:** 1000MΩ Min. at 500V DC

**Withstanding Voltage:** 1000V AC

**Operating Temperature:** -55°C to +125°C

**Max Processing Temperature:**

230°C for 60 Seconds

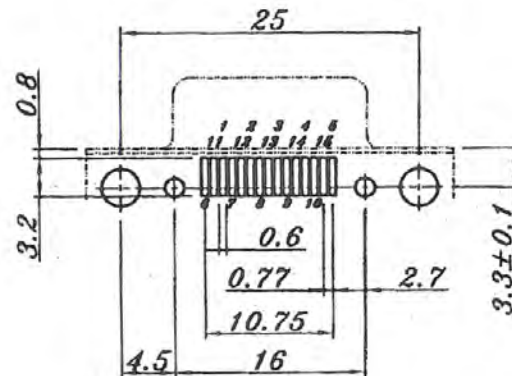
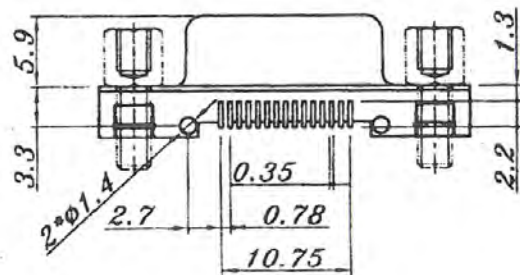
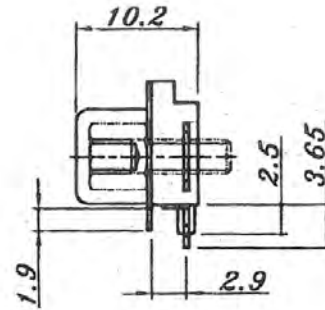
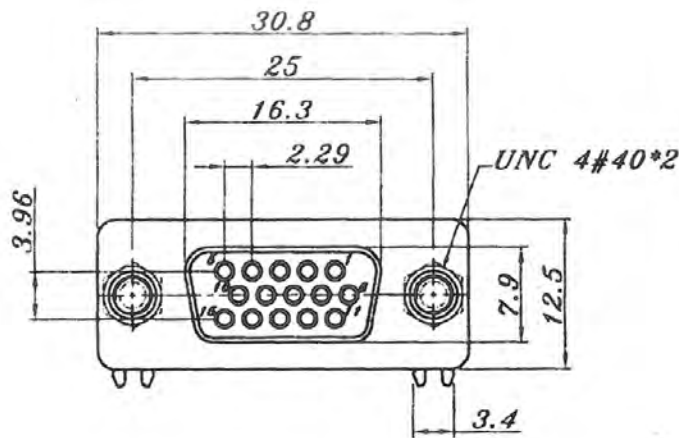
### MATERIALS

**Insulator:** NY9T, UL94V-0

**Contact:** Phosphor Bronze or Brass

**Plating:** Gold Plated Over Nickel in Contact Area

\*RoHS & REACH compliant.



Recommended P.C.Board Layout

### ORDERING INFORMATION:

P/N 5 300 - HD15 SMT / XX

#### 1. CONNECTOR TYPE:

"300" FEMALE

#### 2. NO. OF CONTACTS:

"HD15" HIGH DENSITY D-SUB 15P

#### 3. TERMINAL TYPE:

"SMT" R/A SMT TYPE

#### 4. FLANGE MOUNTING OPTION:

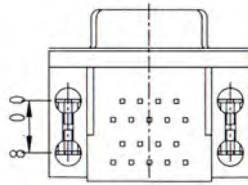
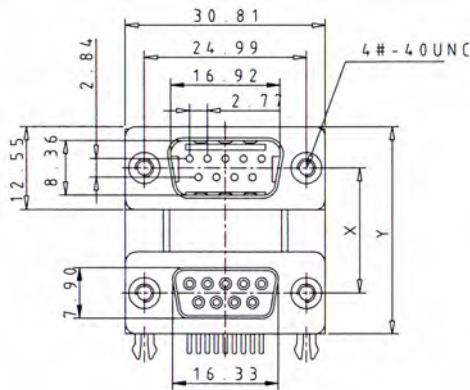
"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS

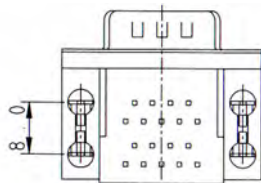
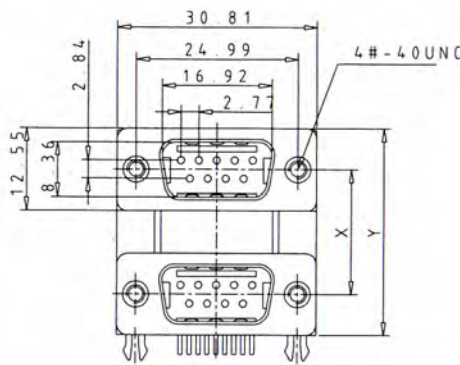
"NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS



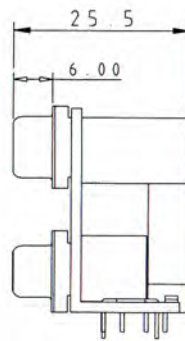
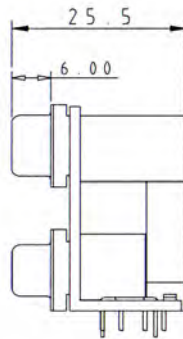
## DUAL PORT DB9/DB9 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.08MM)



**DP-09MF/xxx**



**DP-09MM/xxx**



### SPECIFICATIONS

**Current Rating:** 3.0 Amperes

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

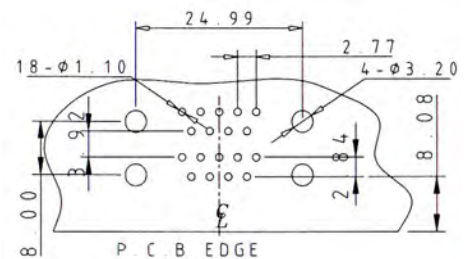
**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

**\*RoHS & REACH compliant.**



**Recommended P.C.Board Layout**

### ORDERING INFORMATION:

P/N DP-09  $\frac{xx}{12}$  /  $\frac{xxx}{34}$

**1. TOP CONNECTOR TYPE:**

"F" FEMALE

"M" MALE

**2. BOTTOM CONNECTOR TYPE:**

"F" FEMALE

"M" MALE

**3. SPACING BETWEEN PORTS:**

"A" X/Y= 19.05/31.60MM

"B" X/Y= 22.86/35.41MM

"C" X/Y= 15.88/28.42MM

**4. FLANGE MOUNTING OPTION:**

"N" #4-40UNC THREADED HOLES

WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES

WITH BULK-PACKED (LOOSE)

#4-40UNC HEX SCREW BOLTS

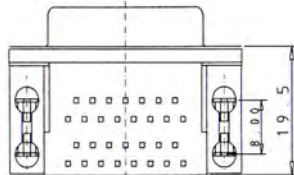
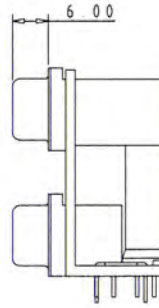
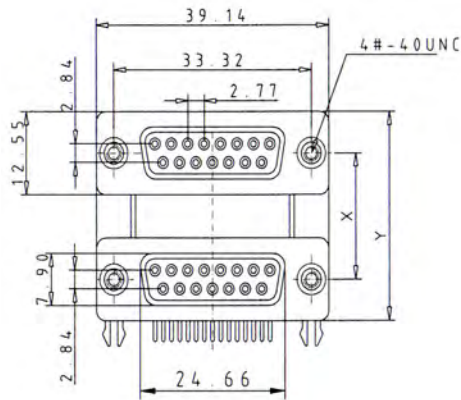
"NJ" #4-40UNC THREADED HOLES

WITH INSTALLED (ASSEMBLED)

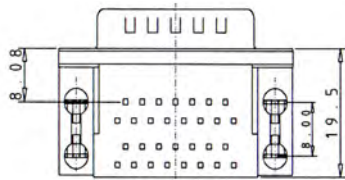
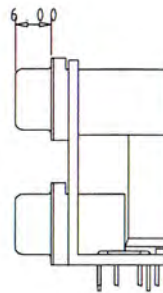
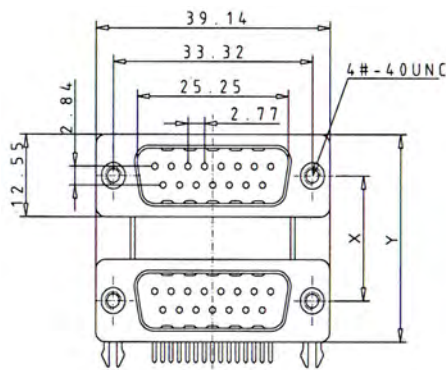
#4-40UNC HEX SCREW BOLTS

OPTION: P/N DPF-09xx/xxx (WITH FERRITE)

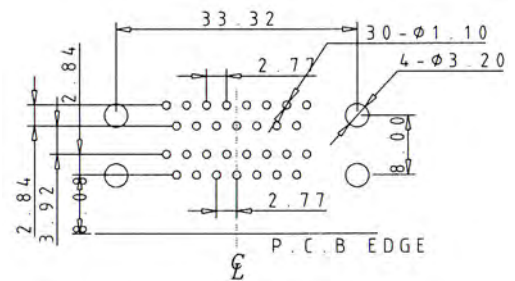
## DUAL PORT DB15/DB15 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.08MM)



**DP-15FF/xxx**



**DP-15MM/xxx**



**Recommended P.C.Board Layout**

### SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
**\*RoHS & REACH compliant.**

### ORDERING INFORMATION:

P/N DP-15  $\frac{xx}{12}$  /  $\frac{xxx}{34}$

1. TOP CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

2. BOTTOM CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

3. SPACING BETWEEN PORTS:

"A" X/Y= 19.05/31.60MM  
 "B" X/Y= 22.86/35.41MM  
 "C" X/Y= 15.88/28.42MM

4. FLANGE MOUNTING OPTION:

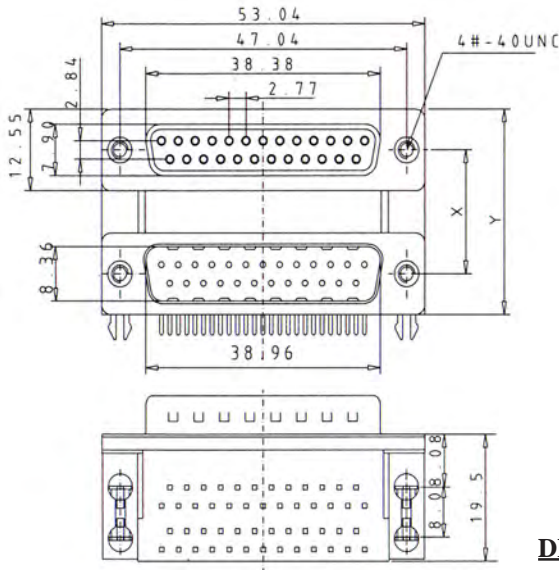
"N" #4-40UNC THREADED HOLES  
 WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES  
 WITH BULK-PACKED (LOOSE)  
 #4-40UNC HEX SCREW BOLTS

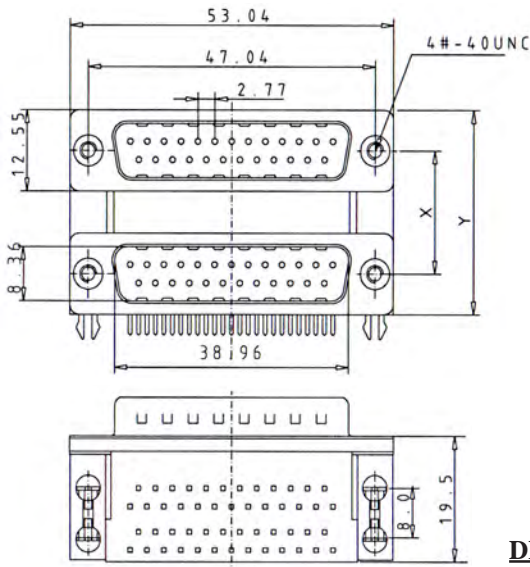
"NJ" #4-40UNC THREADED HOLES  
 WITH INSTALLED (ASSEMBLED)  
 #4-40UNC HEX SCREW BOLTS

OPTION: P/N DPF-15xx/xxx (WITH FERRITE)

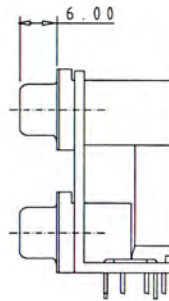
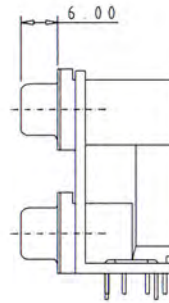
## DUAL PORT DB25/DB25 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.08MM)



**DP-25FM/xxx**



**DP-25MM/xxx**

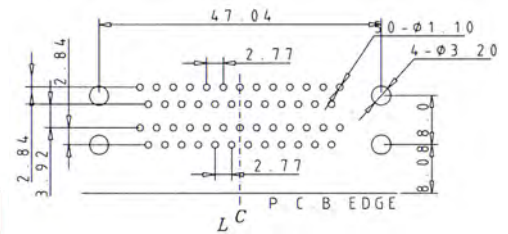


### SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
**\*RoHS & REACH compliant.**



**Recommended P.C. Board Layout**

### ORDERING INFORMATION:

P/N DP-25  $\frac{xx}{12}$  /  $\frac{xxx}{34}$

#### 1. TOP CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 2. BOTTOM CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 3. SPACING BETWEEN PORTS:

"A" X/Y= 19.05/31.60MM  
 "B" X/Y= 22.86/35.41MM  
 "C" X/Y= 15.88/28.42MM

#### 4. FLANGE MOUNTING OPTION:

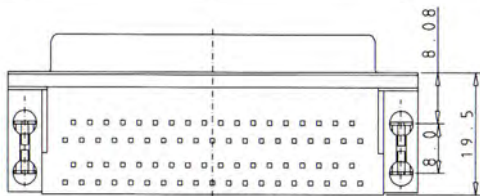
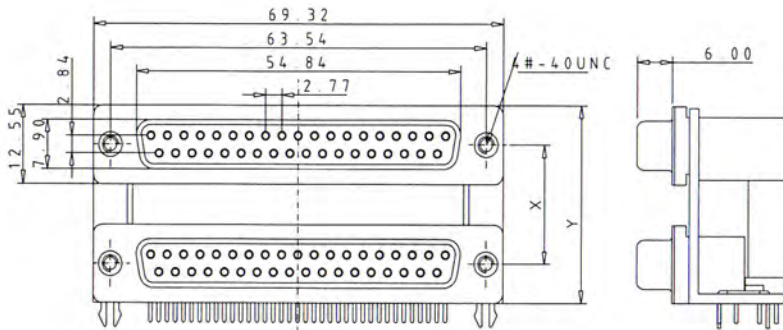
"N" #4-40UNC THREADED HOLES  
 WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES  
 WITH BULK-PACKED (LOOSE)  
 #4-40UNC HEX SCREW BOLTS

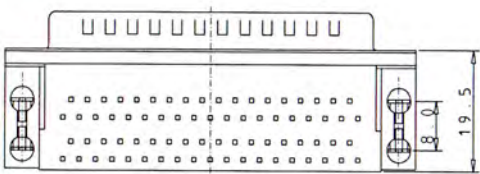
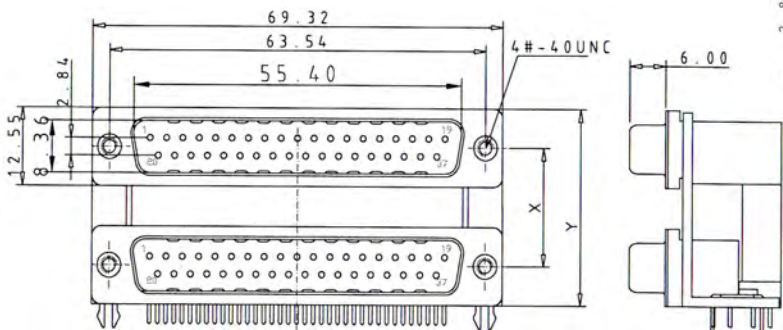
"NJ" #4-40UNC THREADED HOLES  
 WITH INSTALLED (ASSEMBLED)  
 #4-40UNC HEX SCREW BOLTS

OPTION: P/N DPF-25xx/xxx (WITH FERRITE)

# DUAL PORT DB37/DB37 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.08MM)



**DP-37FF/xxx**



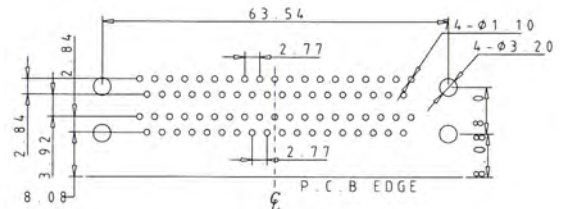
**DP-37MM/xxx**

## SPECIFICATIONS

- Current Rating:** 3.0 Amperes
- Contact Resistance:** 25mΩ Max.
- Insulation Resistance:** 1000MΩ Min. at 500V
- Dielectric Voltage:** 1000V at 1 Minute
- Operating Temperature:** -55°C to +105°C

## MATERIALS

- Insulator:** PBT, UL94V-0 Rated
- Contact:** Brass
- Shell:** Brass, Steel
- Contact Plating:** Gold Over Nickel Plated
- Shell Plating:** Tin Over Copper Plated
- \*RoHS & REACH compliant.**



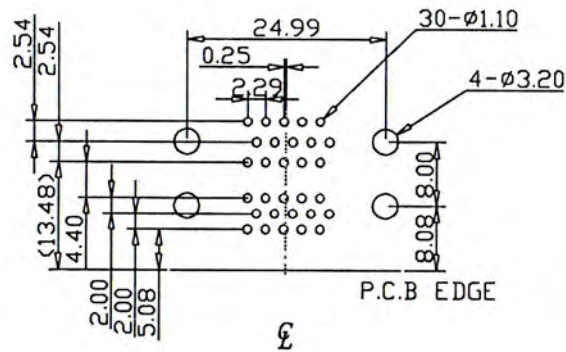
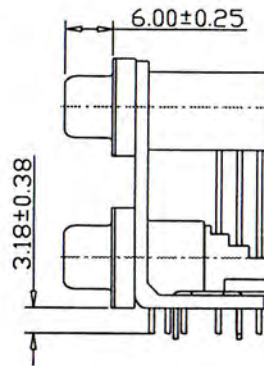
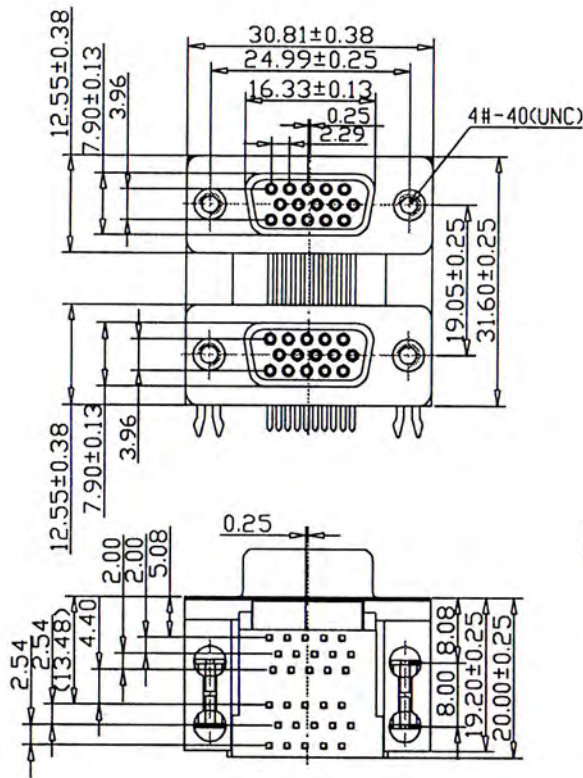
**Recommended P.C. Board Layout**

## ORDERING INFORMATION:

P/N DP-37  $\frac{XX}{12}$  /  $\frac{XXX}{34}$

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>TOP CONNECTOR TYPE:<br/>"F" FEMALE<br/>"M" MALE</li> <li>BOTTOM CONNECTOR TYPE:<br/>"F" FEMALE<br/>"M" MALE</li> <li>SPACING BETWEEN PORTS:<br/>"A" X/Y= 19.05/31.60MM<br/>"B" X/Y= 22.86/35.41MM<br/>"C" X/Y= 15.88/28.42MM</li> </ol> | <ol style="list-style-type: none"> <li>FLANGE MOUNTING OPTION:<br/>"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS<br/>"NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS<br/>"NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS</li> </ol> <p>OPTION: P/N DPF-37xx/xxx (WITH FERRITE)</p> |
|--|--|

## DUAL PORT HD15/HD15 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 5.08MM)



Recommended P.C.Board Layout

### SPECIFICATIONS

**Current Rating:** 3.0 Amperes

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N D P D - H D 1 5  $\frac{X X}{1 2}$  /  $\frac{X X X}{3 4}$

#### 1. TOP CONNECTOR TYPE:

"F" FEMALE

"M" MALE

#### 2. BOTTOM CONNECTOR TYPE:

"F" FEMALE

"M" MALE

#### 3. SPACING BETWEEN PORTS:

"A" 19.05MM(0.750")

"C" 15.88MM(0.625")

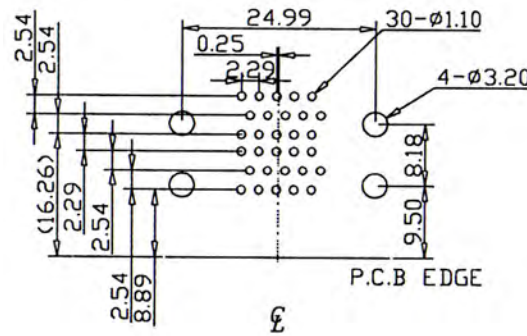
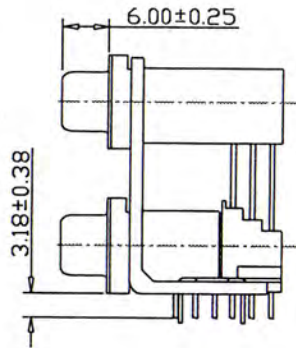
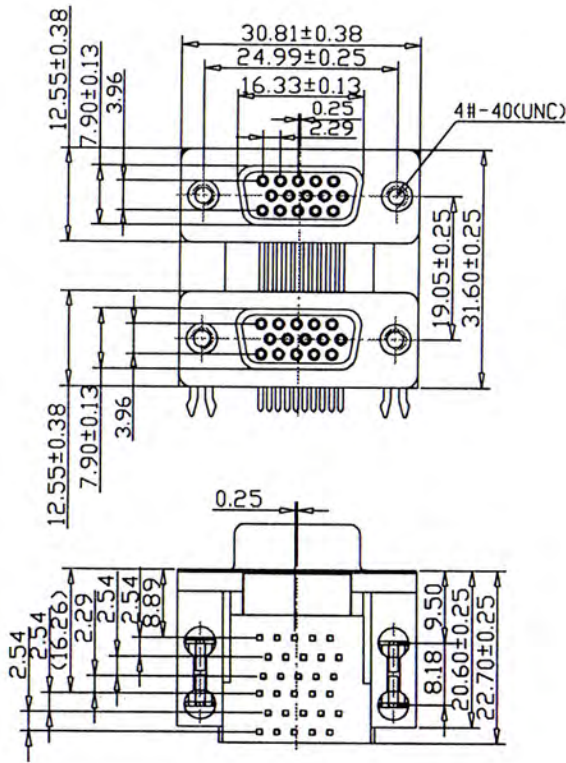
#### 4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS

"NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

## DUAL PORT HD15/HD15 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.89MM)



Recommended P.C.Board Layout

### SPECIFICATIONS

- Current Rating:** 3.0 Amperes
- Contact Resistance:** 25mΩ Max.
- Insulation Resistance:** 1000MΩ Min. at 500V
- Dielectric Voltage:** 1000V at 1 Minute
- Operating Temperature:** -55°C to +105°C

### MATERIALS

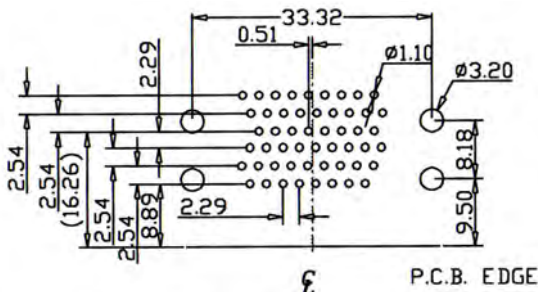
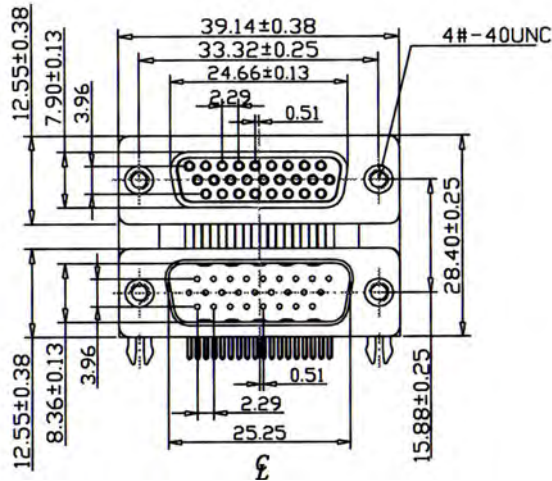
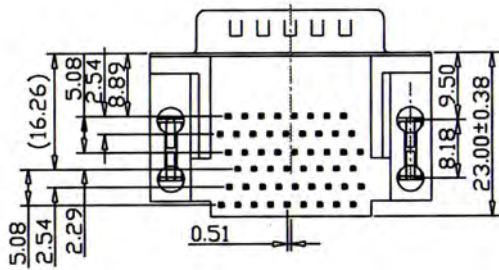
- Insulator:** PBT, UL94V-0 Rated
- Contact:** Brass
- Shell:** Brass, Steel
- Contact Plating:** Gold Over Nickel Plated
- Shell Plating:** Tin Over Copper Plated
- \*RoHS & REACH compliant.**

### ORDERING INFORMATION:

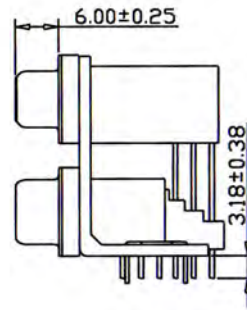
P/N DPH - HD 15  $\frac{X}{1} \frac{X}{2} / \frac{X}{3} \frac{X}{4}$

- TOP CONNECTOR TYPE:  
"F" FEMALE  
"M" MALE
- BOTTOM CONNECTOR TYPE:  
"F" FEMALE  
"M" MALE
- SPACING BETWEEN PORTS:  
"A" 19.05MM(0.750")  
"C" 15.88MM(0.625")
- FLANGE MOUNTING OPTION:  
"N " #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS  
"NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS  
"NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

## DUAL PORT HD26/HD26 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.89MM)



Recommended P.C. Board Layout



### SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
**\*RoHS & REACH compliant.**

### ORDERING INFORMATION:

P/N DPH - HD 26  $\frac{X}{1} \frac{X}{2} / \frac{X}{3} \frac{X}{4}$

#### 1. TOP CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 2. BOTTOM CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

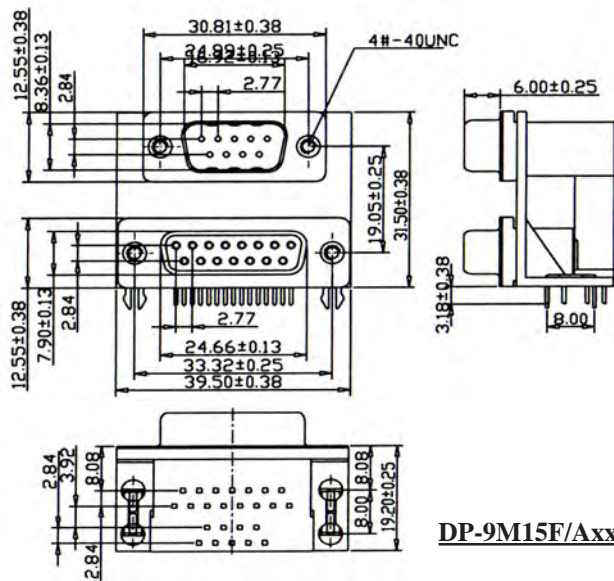
#### 3. SPACING BETWEEN PORTS:

"A" 19.05MM(0.750")  
 "C" 15.88MM(0.625")

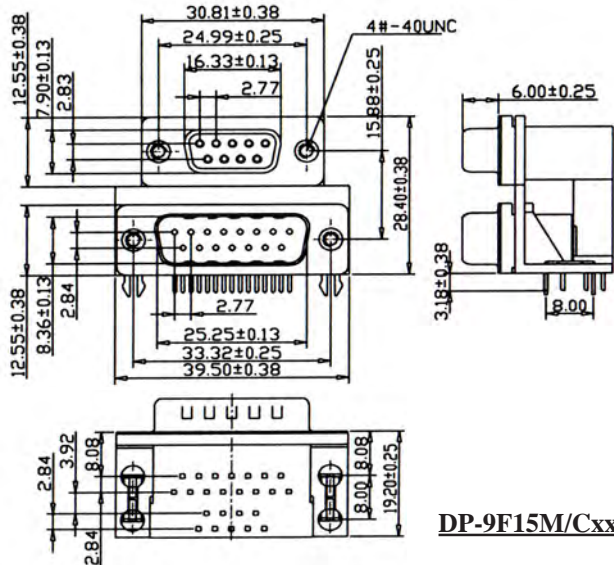
#### 4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS  
 "NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS  
 "NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

## DUAL PORT DB9/DB15 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.08MM)



**DP-9M15F/Axx**



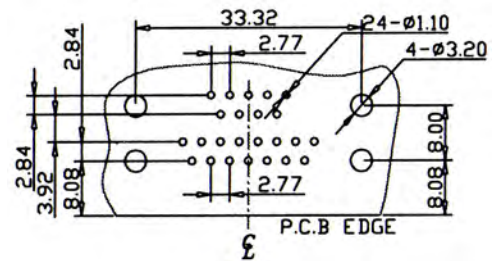
**DP-9F15M/Cxx**

### SPECIFICATIONS

- Current Rating: 3.0 Amperes
- Contact Resistance: 25mΩ Max.
- Insulation Resistance: 1000MΩ Min. at 500V
- Dielectric Voltage: 1000V at 1 Minute
- Operating Temperature: -55°C to +105°C

### MATERIALS

- Insulator: PBT, UL94V-0 Rated
- Contact: Brass
- Shell: Brass, Steel
- Contact Plating: Gold Over Nickel Plated
- Shell Plating: Tin Over Copper Plated
- \*RoHS & REACH compliant.



**Recommended P.C. Board Layout**

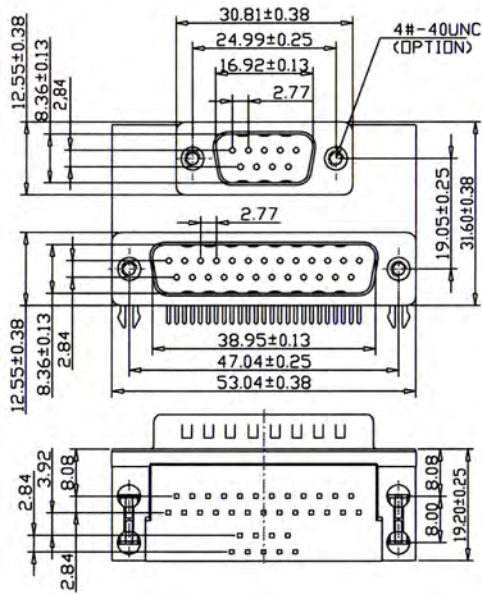
### ORDERING INFORMATION:

P/N DP-9  $\frac{x}{1}$  15  $\frac{x}{2}$  /  $\frac{x}{3}$   $\frac{x}{4}$

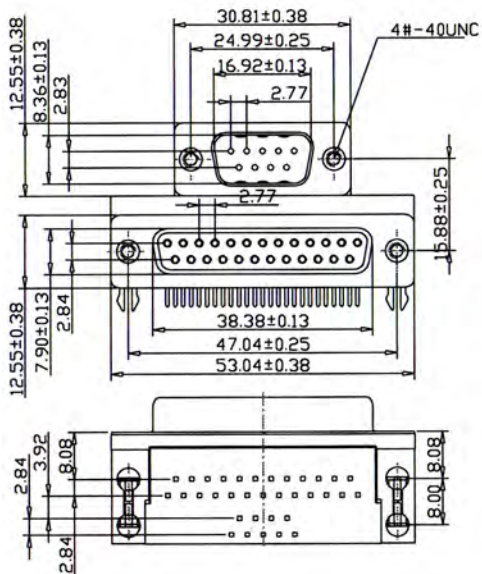
- TOP CONNECTOR TYPE:
  - "F" FEMALE
  - "M" MALE
- BOTTOM CONNECTOR TYPE:
  - "F" FEMALE
  - "M" MALE
- SPACING BETWEEN PORTS:
  - "A" 19.05MM(0.750")
  - "C" 15.88MM(0.625")
- FLANGE MOUNTING OPTION:
  - "N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS
  - "NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS
  - "NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS



## DUAL PORT DB9/DB25 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.08MM)



**DP-9M25M/Axx**



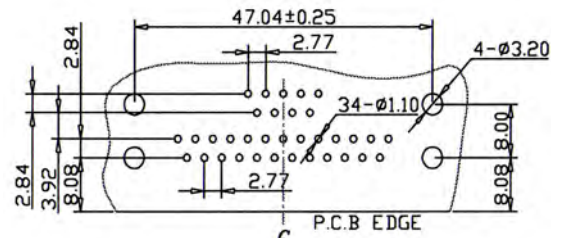
**DP-9M25F/Cxx**

### SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
 \*RoHS & REACH compliant.



**Recommended P.C. Board Layout**

### ORDERING INFORMATION:

P/N DP-9  $\frac{x}{1}$  25  $\frac{x}{2}$  /  $\frac{x}{3}$   $\frac{xx}{4}$

#### 1. TOP CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 2. BOTTOM CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

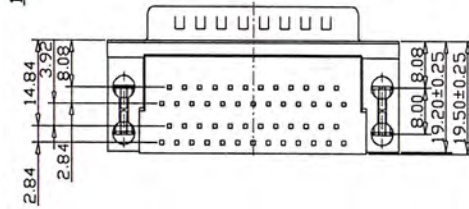
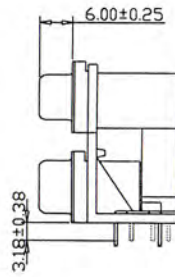
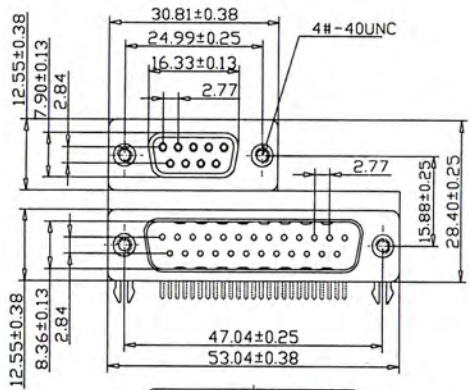
#### 3. SPACING BETWEEN PORTS:

"A" 19.05MM(0.750")  
 "C" 15.88MM(0.625")

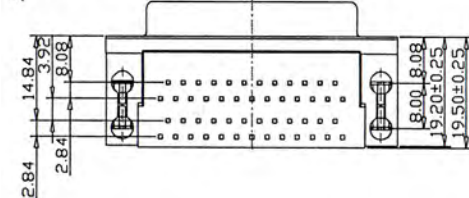
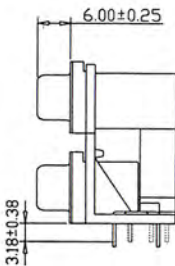
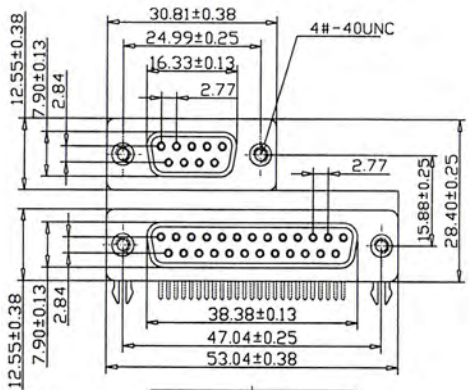
#### 4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS  
 "NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS  
 "NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

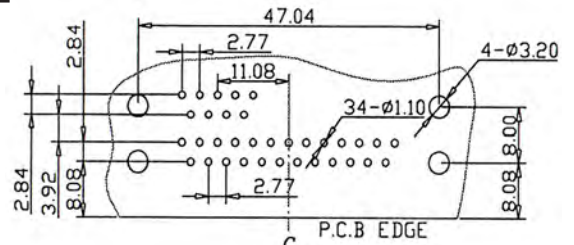
# DUAL PORT DB9/DB25 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.08MM)



**DPA-9F25M/Cxx**



**DPA-9F25F/Cxx**



**Recommended P.C. Board Layout**

## ORDERING INFORMATION:

P/N DPA-9  $\frac{x}{1}$  25  $\frac{x}{2}$  /  $\frac{x}{3}$   $\frac{x}{4}$  x

### 1. TOP CONNECTOR TYPE:

- "F" FEMALE
- "M" MALE

### 2. BOTTOM CONNECTOR TYPE:

- "F" FEMALE
- "M" MALE

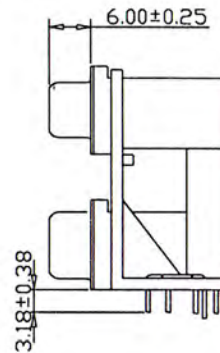
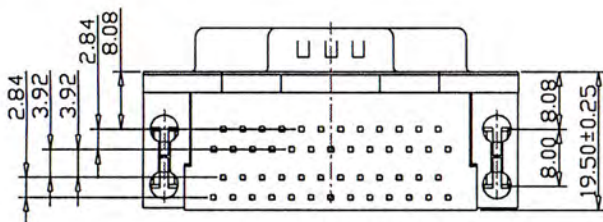
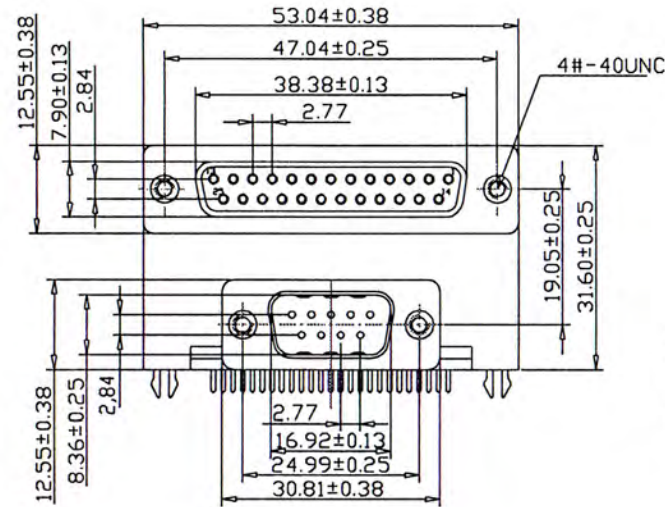
### 3. SPACING BETWEEN PORTS:

- "C" 15.88MM(0.625")

### 4. FLANGE MOUNTING OPTION:

- "N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS
- "NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS
- "NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

## DUAL PORT DB25/DB9 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.08MM)

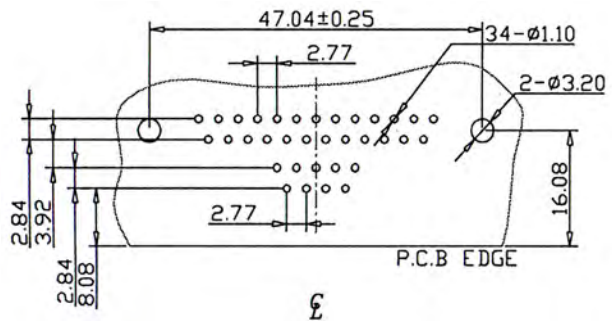


### SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
 \*RoHS & REACH compliant.



Recommended P.C.Board Layout

### ORDERING INFORMATION:

P/N DP - 25  $\frac{x}{1}$  9  $\frac{x}{2}$  /  $\frac{x}{3}$   $\frac{x}{4}$

#### 1. TOP CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 2. BOTTOM CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 3. SPACING BETWEEN PORTS:

"A" 19.05MM(0.750")

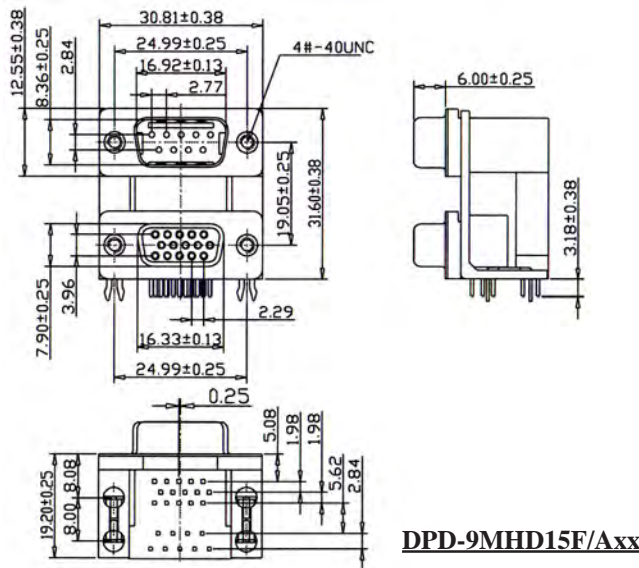
#### 4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES  
 WITHOUT HEX SCREW BOLTS

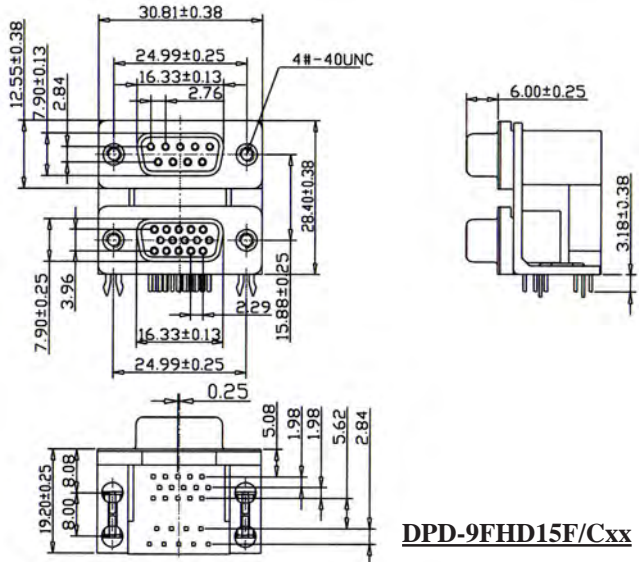
"NH" #4-40UNC THREADED HOLES  
 WITH BULK-PACKED (LOOSE)  
 #4-40UNC HEX SCREW BOLTS

"NJ" #4-40UNC THREADED HOLES  
 WITH INSTALLED (ASSEMBLED)  
 #4-40UNC HEX SCREW BOLTS

## DUAL PORT DB9/HD15 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 5.08MM)



**DPD-9MHD15F/Axx**



**DPD-9FHD15F/Cxx**

### SPECIFICATIONS

**Current Rating:** 3.0 Amperes

**Contact Resistance:** 25mΩ Max.

**Insulation Resistance:** 1000MΩ Min. at 500V

**Dielectric Voltage:** 1000V at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

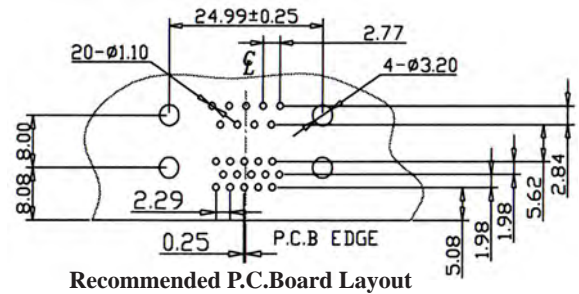
**Contact:** Brass

**Shell:** Brass, Steel

**Contact Plating:** Gold Over Nickel Plated

**Shell Plating:** Tin Over Copper Plated

\*RoHS & REACH compliant.



**Recommended P.C.Board Layout**

### ORDERING INFORMATION:

P/N **DPD - 9**  $\frac{x}{1}$  **HD 15**  $\frac{x}{2}$  /  $\frac{x}{3}$   $\frac{x}{4}$

**1. TOP CONNECTOR TYPE:**

"F" FEMALE

"M" MALE

**2. BOTTOM CONNECTOR TYPE:**

"F" FEMALE

"M" MALE

**3. SPACING BETWEEN PORTS:**

"A" 19.05MM(0.750")

"C" 15.88MM(0.625")

**4. FLANGE MOUNTING OPTION:**

"N" #4-40UNC THREADED HOLES

WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES

WITH BULK-PACKED (LOOSE)

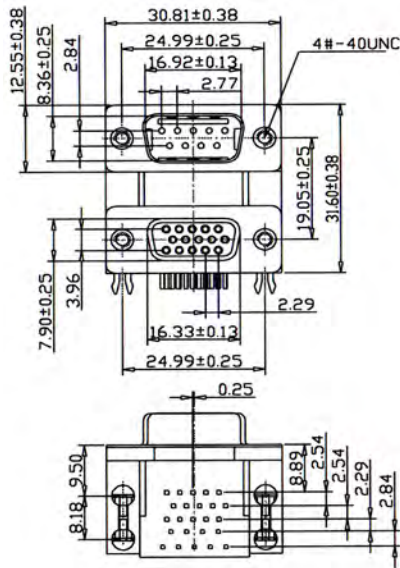
#4-40UNC HEX SCREW BOLTS

"NJ" #4-40UNC THREADED HOLES

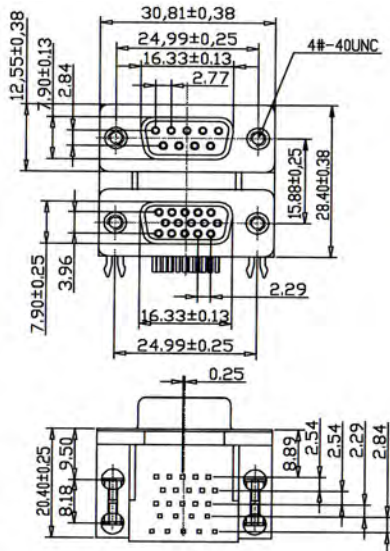
WITH INSTALLED (ASSEMBLED)

#4-40UNC HEX SCREW BOLTS

## DUAL PORT DB9/HD15 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.89MM)



**DPH-9MHD15F/Axx**



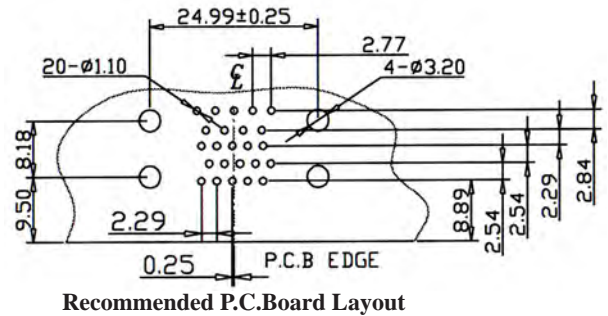
**DPH-9FHD15F/Cxx**

### SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
 \*RoHS & REACH compliant.



### ORDERING INFORMATION:

P/N DPH - 9  $\frac{x}{1}$  HD 15  $\frac{x}{2}$  /  $\frac{x}{3}$   $\frac{x}{4}$

1. TOP CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

2. BOTTOM CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

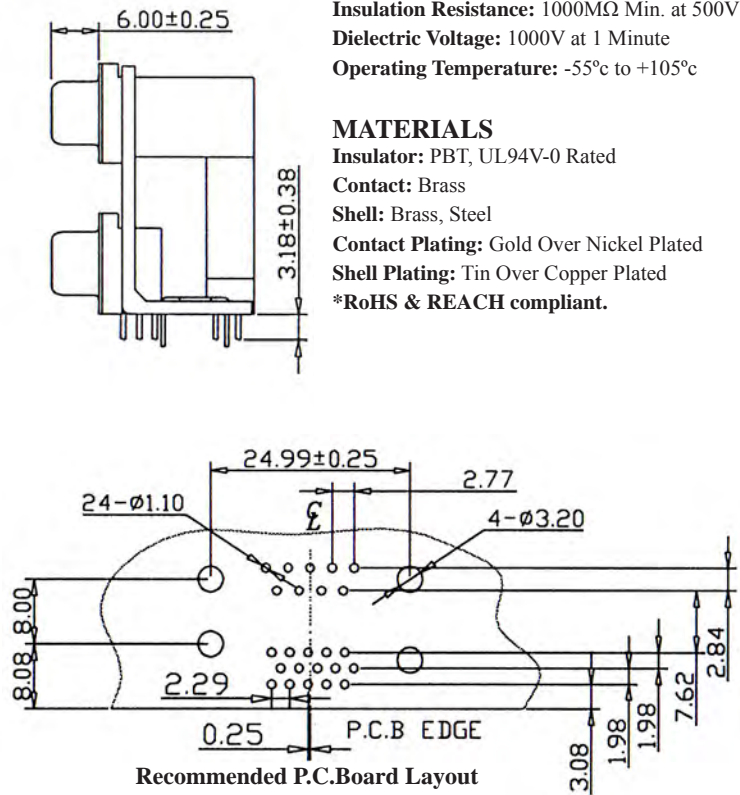
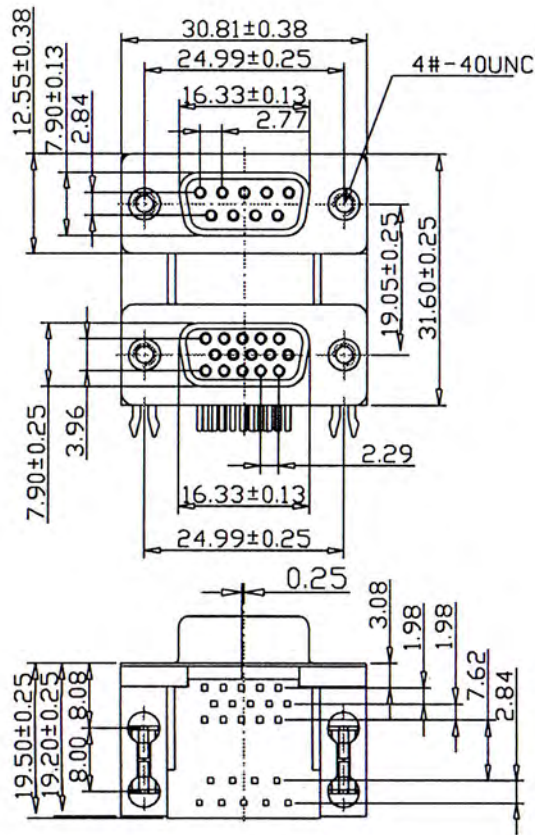
3. SPACING BETWEEN PORTS:

"A" 19.05MM(0.750")  
 "C" 15.88MM(0.625")

4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS  
 "NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS  
 "NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

## DUAL PORT DB9/HD15 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 3.08MM)



### SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
 \*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N D P B - 9  $\frac{x}{1}$  H D 15  $\frac{x}{2}$  /  $\frac{x}{3}$   $\frac{x}{4}$

#### 1. TOP CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 2. BOTTOM CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 3. SPACING BETWEEN PORTS:

"A" 19.05MM(0.750")

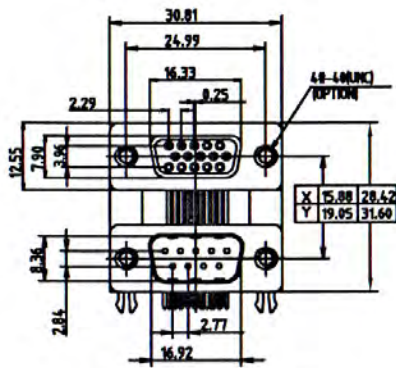
#### 4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS

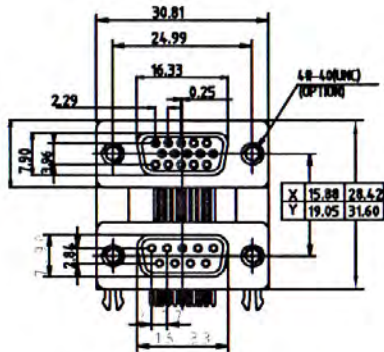
"NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS

"NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

## DUAL PORT HD15/DB09 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.08MM)



DP-HD15F9M



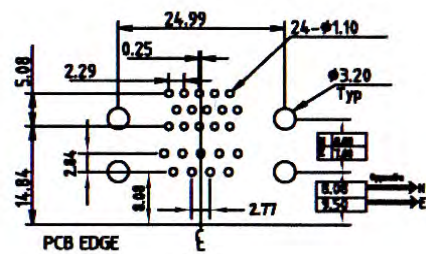
DP-HD15F9F

### SPECIFICATIONS

Current Rating: 3.0 Amperes  
 Contact Resistance: 25mΩ Max.  
 Insulation Resistance: 1000MΩ Min. at 500V  
 Dielectric Voltage: 1000V at 1 Minute  
 Operating Temperature: -55°C to +105°C

### MATERIALS

Insulator: PBT, UL94V-0 Rated  
 Contact: Brass  
 Shell: Brass, Steel  
 Contact Plating: Gold Over Nickel Plated  
 Shell Plating: Tin Over Copper Plated  
 \*RoHS & REACH compliant.



Recommended P.C.Board Layout

### ORDERING INFORMATION:

P/N DP-HD15  $\frac{X}{1}$   $\frac{9}{2}$  /  $\frac{X}{3}$   $\frac{X}{4}$

#### 1. TOP CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 2. BOTTOM CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

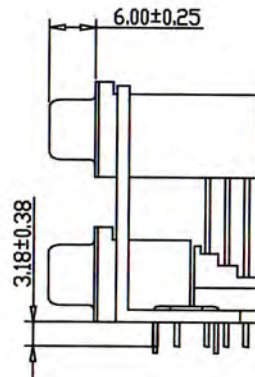
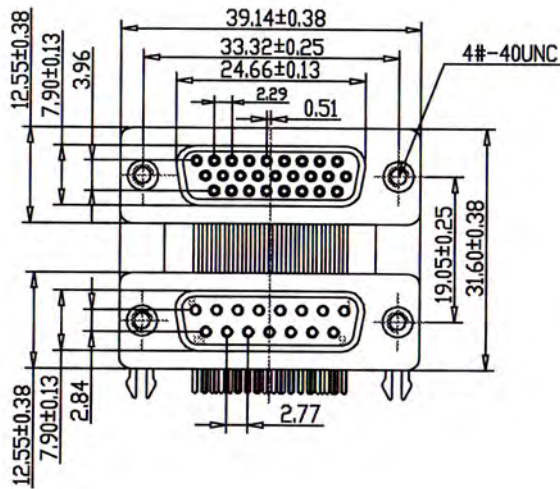
#### 3. SPACING BETWEEN PORTS:

"A" 19.05MM(0.750")  
 "C" 15.88MM(0.625")

#### 4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS  
 "NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS  
 "NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

## DUAL PORT HD26/DB15 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.08MM)

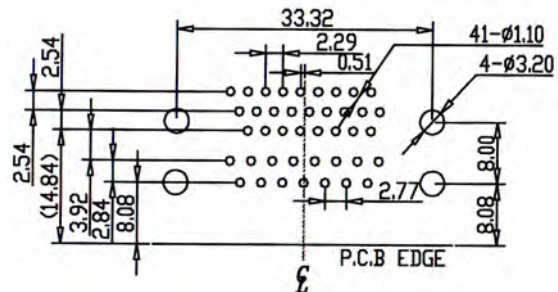
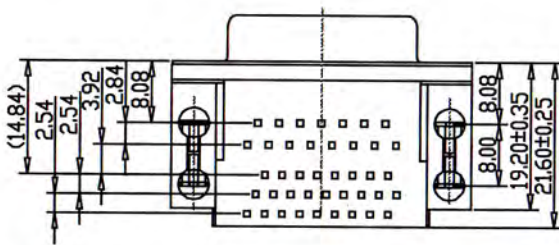


### SPECIFICATIONS

Current Rating: 3.0 Amperes  
 Contact Resistance: 25mΩ Max.  
 Insulation Resistance: 1000MΩ Min. at 500V  
 Dielectric Voltage: 1000V at 1 Minute  
 Operating Temperature: -55°C to +105°C

### MATERIALS

Insulator: PBT, UL94V-0 Rated  
 Contact: Brass  
 Shell: Brass, Steel  
 Contact Plating: Gold Over Nickel Plated  
 Shell Plating: Tin Over Copper Plated  
 \*RoHS & REACH compliant.



Recommended P.C.Board Layout

### ORDERING INFORMATION:

P/N DP-HD26<sub>1</sub>X15<sub>2</sub>/X<sub>3</sub>X<sub>4</sub>

#### 1. TOP CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 2. BOTTOM CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 3. SPACING BETWEEN PORTS:

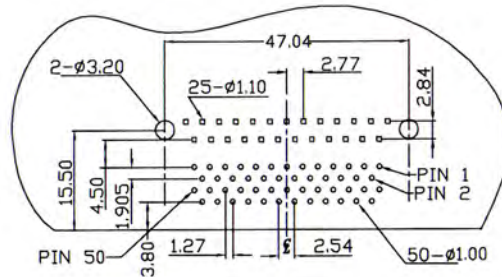
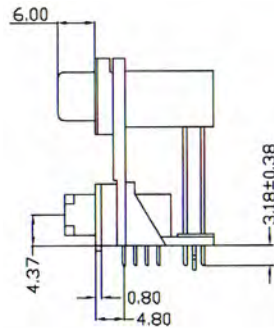
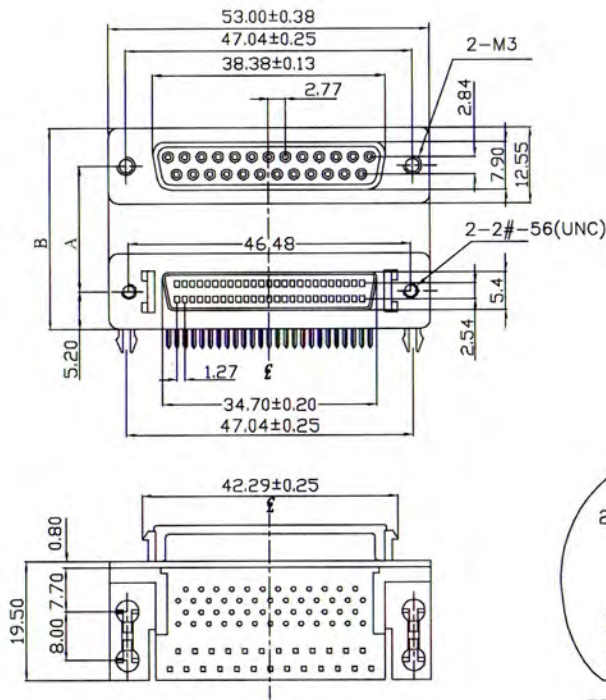
"A" 19.05MM(0.750")  
 "C" 15.88MM(0.625")

#### 4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS  
 "NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS  
 "NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS



# DUAL PORT DB25 TO HPDB50 SCSI-II CONNECTOR RIGHT ANGLE TYPE



Recommended P.C. Board Layout

## SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
**\*RoHS & REACH compliant.**

## ORDERING INFORMATION:

P/N DP-25FHP50F/<sub>1</sub>X<sub>2</sub>X<sub>3</sub>X<sub>4</sub>

### 1. TOP CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

### 2. BOTTOM CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

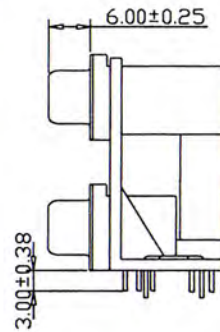
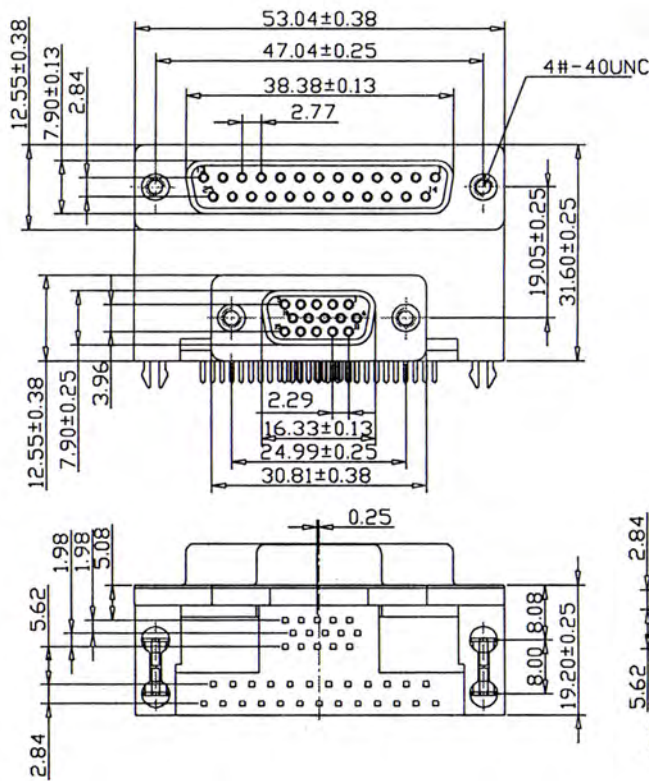
### 3. SPACING BETWEEN PORTS:

"C" A= 15.88MM(0.625")  
 "F" A= 20.57MM(0.810")

### 4. FLANGE MOUNTING OPTION:

"N " #4-40UNC THREADED HOLES  
 WITHOUT HEX SCREW BOLTS  
 "NH" #4-40UNC THREADED HOLES  
 WITH BULK-PACKED (LOOSE)  
 #4-40UNC HEX SCREW BOLTS  
 "NJ" #4-40UNC THREADED HOLES  
 WITH INSTALLED (ASSEMBLED)  
 #4-40UNC HEX SCREW BOLTS

## DUAL PORT DB25/HD15 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 5.08MM)

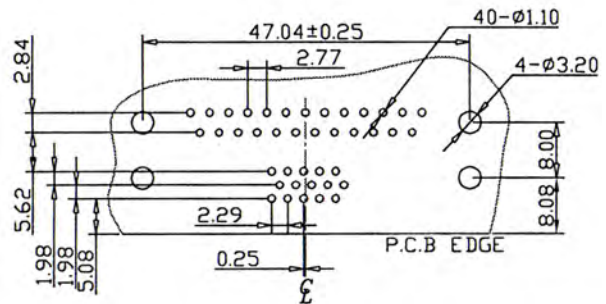


### SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
**\*RoHS & REACH compliant.**



Recommended P.C. Board Layout

### ORDERING INFORMATION:

P/N D P D - 2 5  $\frac{x}{1}$  H D 1 5  $\frac{x}{2}$  /  $\frac{x}{3}$   $\frac{x}{4}$

#### 1. TOP CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 2. BOTTOM CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 3. SPACING BETWEEN PORTS:

"A" 19.05MM(0.750")

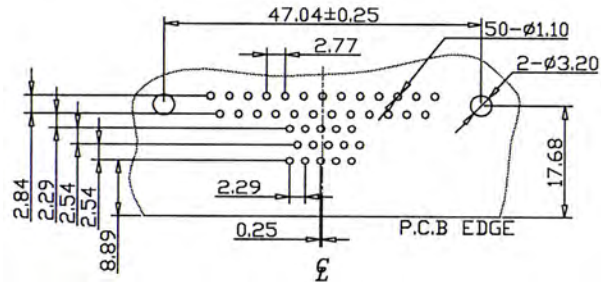
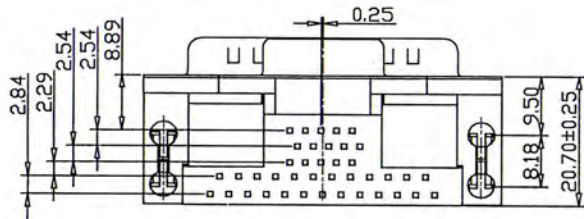
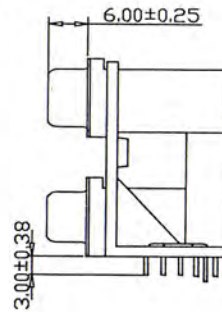
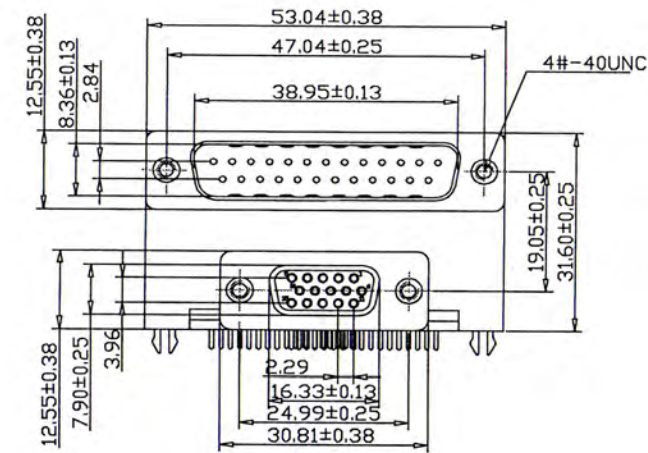
#### 4. FLANGE MOUNTING OPTION:

"N" #4-40UNC THREADED HOLES  
 WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES  
 WITH BULK-PACKED (LOOSE)  
 #4-40UNC HEX SCREW BOLTS

"NJ" #4-40UNC THREADED HOLES  
 WITH INSTALLED (ASSEMBLED)  
 #4-40UNC HEX SCREW BOLTS

## DUAL PORT DB25/HD15 CONNECTOR RIGHT ANGLE TYPE (FOOTPRINT= 8.89MM)



Recommended P.C.Board Layout

### SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
 \*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N DPH - 25  $\frac{x}{1}$  HD 15  $\frac{x}{2}$  /  $\frac{x}{3}$   $\frac{x}{4}$

#### 1. TOP CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 2. BOTTOM CONNECTOR TYPE:

"F" FEMALE  
 "M" MALE

#### 3. SPACING BETWEEN PORTS:

"A" 19.05MM(0.750")

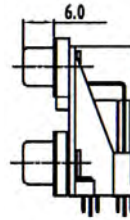
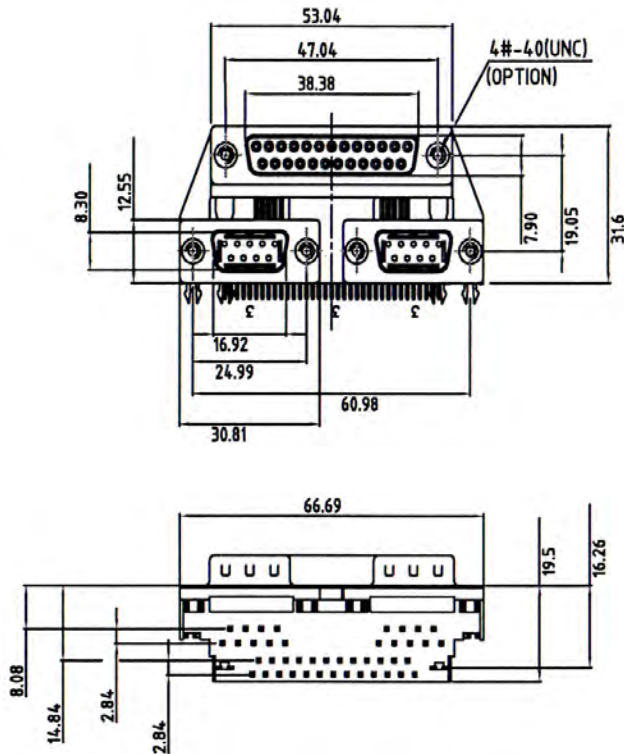
#### 4. FLANGE MOUNTING OPTION:

"N " #4-40UNC THREADED HOLES  
 WITHOUT HEX SCREW BOLTS

"NH" #4-40UNC THREADED HOLES  
 WITH BULK-PACKED (LOOSE)  
 #4-40UNC HEX SCREW BOLTS

"NJ" #4-40UNC THREADED HOLES  
 WITH INSTALLED (ASSEMBLED)  
 #4-40UNC HEX SCREW BOLTS

# TRIPLE PORT DB25F TO DB9M/DB9M CONNECTOR RIGHT ANGLE TYPE

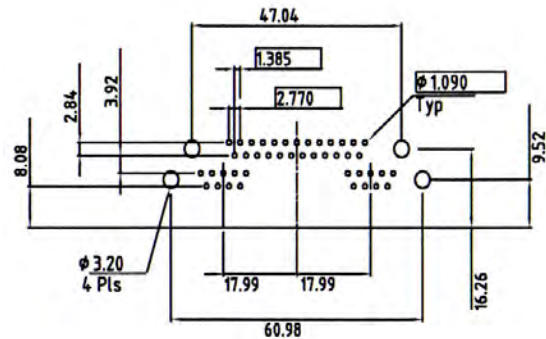


## SPECIFICATIONS

Current Rating: 3.0 Amperes  
 Contact Resistance: 25mΩ Max.  
 Insulation Resistance: 1000MΩ Min. at 500V  
 Dielectric Voltage: 1000V at 1 Minute  
 Operating Temperature: -55°C to +105°C

## MATERIALS

Insulator: PBT, UL94V-0 Rated  
 Contact: Brass  
 Shell: Brass, Steel  
 Contact Plating: Gold Over Nickel Plated  
 Shell Plating: Tin Over Copper Plated  
 \*RoHS & REACH compliant.



Recommended P.C.Board Layout

N	NJ	NH
	S 4.8 L 5.8	S 4.8 L 5.8

## ORDERING INFORMATION:

P/N TP25F-9M9M/A XX  
I

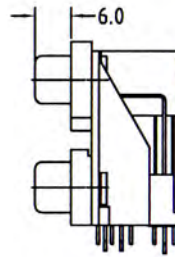
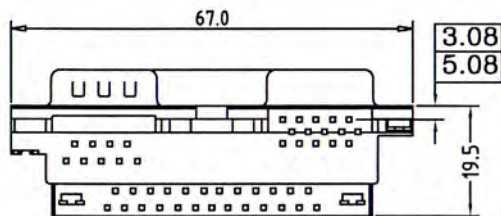
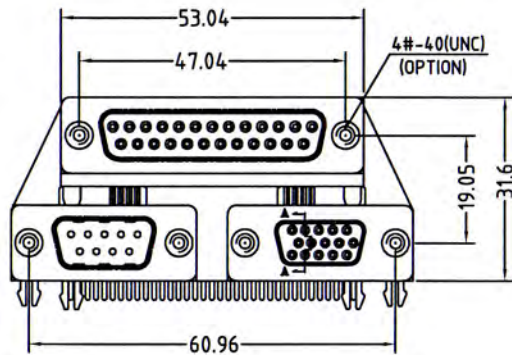
### 1. MOUNTING OPTION:

- "N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS
- "NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS
- "NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

### NOTE: PC99 FOLLOW PANTONE COLORS:

- 1. UPPER PORT: PURPLE (DB25F)
- 2. LOWER PORT: GREEN (DB09M)

# TRIPLE PORT DB25F TO DB9M/HD15F CONNECTOR RIGHT ANGLE TYPE

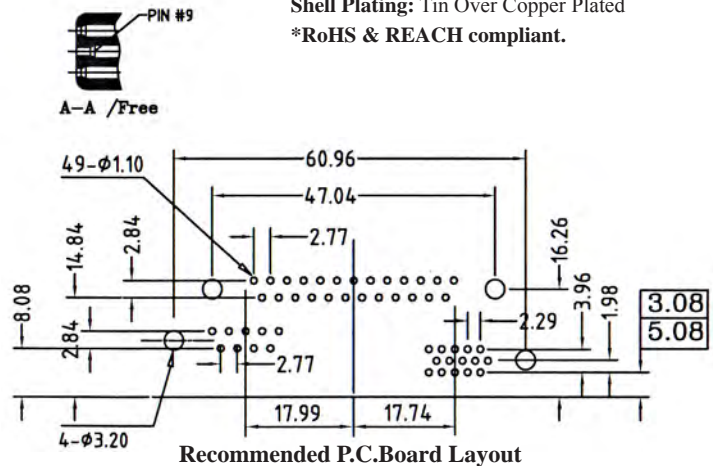


## SPECIFICATIONS

**Current Rating:** 3.0 Amperes  
**Contact Resistance:** 25mΩ Max.  
**Insulation Resistance:** 1000MΩ Min. at 500V  
**Dielectric Voltage:** 1000V at 1 Minute  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
**Shell:** Brass, Steel  
**Contact Plating:** Gold Over Nickel Plated  
**Shell Plating:** Tin Over Copper Plated  
 \*RoHS & REACH compliant.



N	NJ	NH

## ORDERING INFORMATION:

**P/N TP25F-9MHD15F/A<sub>XX</sub>**  
**I**

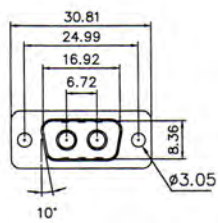
### 1. MOUNTING OPTION:

- "N" #4-40UNC THREADED HOLES WITHOUT HEX SCREW BOLTS
- "NH" #4-40UNC THREADED HOLES WITH BULK-PACKED (LOOSE) #4-40UNC HEX SCREW BOLTS
- "NJ" #4-40UNC THREADED HOLES WITH INSTALLED (ASSEMBLED) #4-40UNC HEX SCREW BOLTS

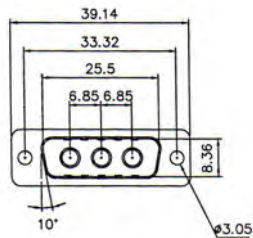
### NOTE: PC99 FOLLOW PANTONE COLORS:

1. UPPER PORT: PURPLE (DB25F)
2. LOWER PORT: GREEN (DB09M)
3. LOWER PORT: BLUE (HD15F)

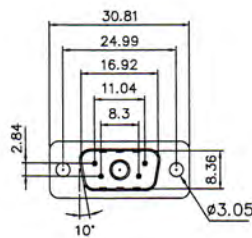
# D-SUB. HIGH POWER MALE CONNECTOR SOLDER TYPE WITH COAXIAL PINS



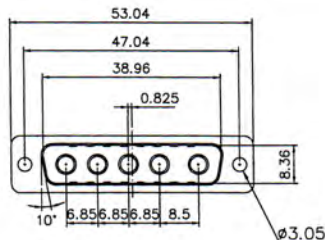
**02W2**



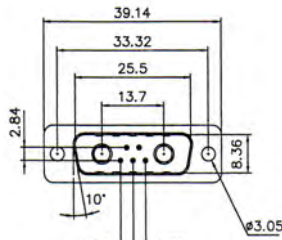
**03W3**



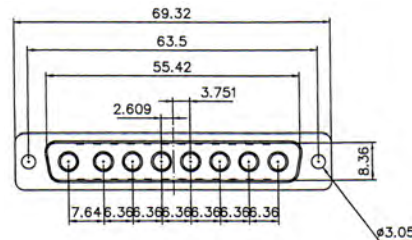
**05W1**



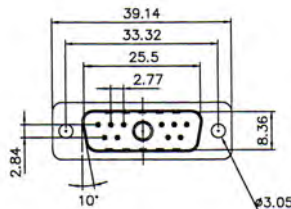
**05W5**



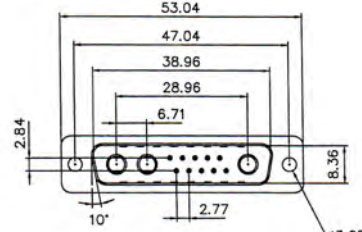
**07W2**



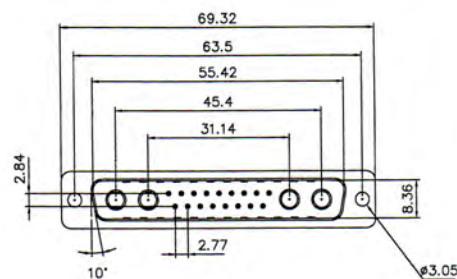
**08W8**



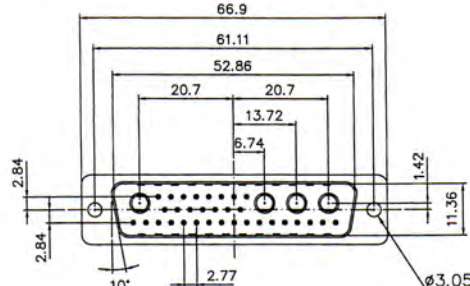
**11W1**



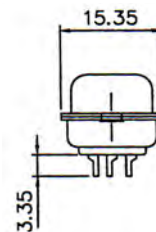
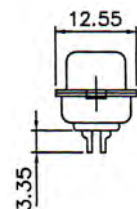
**13W3**



**21W4**



**36W4**



## SPECIFICATIONS

**Current Rating:** 10A, 20A, 40A

**Contact Resistance:** 30mΩ Max.

**Insulation Resistance:** 5000MΩ Min.

**Dielectric Wistanding:** 500V AC

**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**SHELL:** STEEL TIN Plated Over Nickel

\*RoHS & REACH compliant.

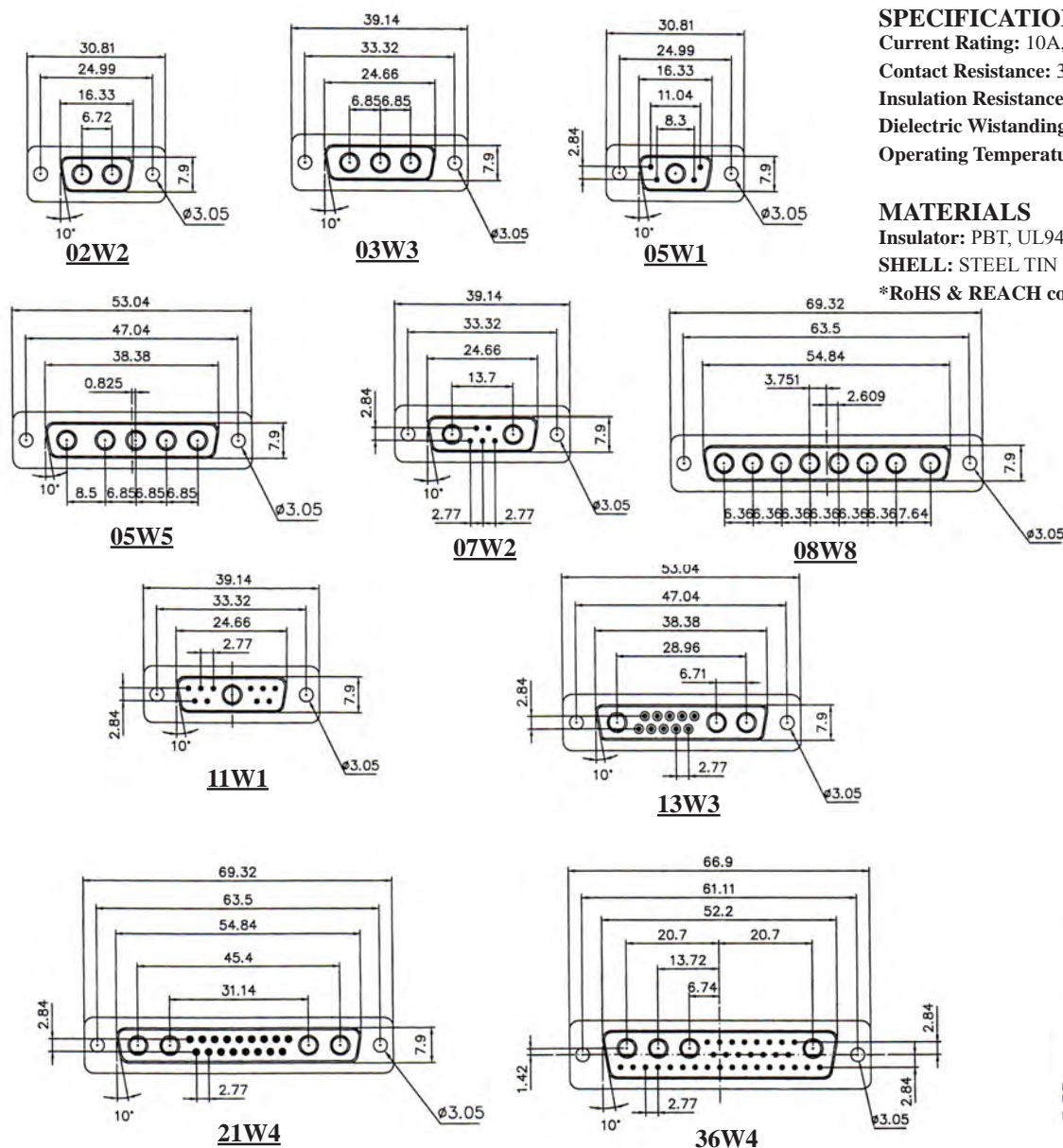
## ORDERING INFORMATION:

P/N 5 2 89 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{x}{3}$   $\frac{x}{4}$  H x x

1. CONNECTOR TYPE:  
"89" MALE SOLDER TYPE WITH COAXIAL PINS
2. NO. OF CONTACTS:  
02W2, 03W3, 05W1, 05W5, 07W2, 08W8, 11W1, 13W3, 21W4, 36W4
3. TYPE OF COAXIAL PINS:  
"H" HIGH POWER PINS

4. CURRENT RATING:  
"10" 10A  
"20" 20A  
"40" 40A

# D-SUB. HIGH POWER FEMALE CONNECTOR SOLDER TYPE WITH COAXIAL PINS



## SPECIFICATIONS

- Current Rating:** 10A, 20A, 40A
- Contact Resistance:** 30mΩ Max.
- Insulation Resistance:** 5000MΩ Min.
- Dielectric Wistanding:** 500V AC
- Operating Temperature:** -55°C to +125°C

## MATERIALS

- Insulator:** PBT, UL94V-0 Rated
- SHELL:** STEEL TIN Plated Over Nickel
- \*RoHS & REACH compliant.**

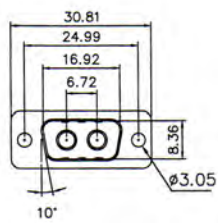
## ORDERING INFORMATION:

P/N 5 2 9 0 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{x}{3}$   $\frac{x}{4}$  H x x

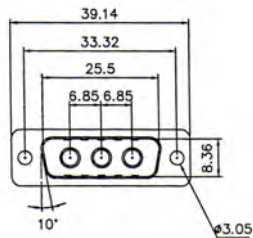
- CONNECTOR TYPE:  
"90" FEMALE SOLDER TYPE WITH COAXIAL PINS
- NO. OF CONTACTS:  
02W2, 03W3, 05W1, 05W5, 07W2, 08W8, 11W1, 13W3, 21W4, 36W4
- TYPE OF COAXIAL PINS:  
"H" HIGH POWER PINS

- CURRENT RATING:  
"10" 10A  
"20" 20A  
"40" 40A

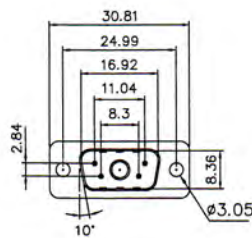
# D-SUB. HIGH POWER MALE CONNECTOR STRAIGHT PCB MOUNT TYPE WITH COAXIAL PINS



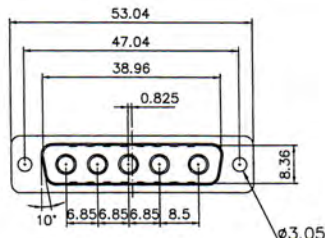
**02W2**



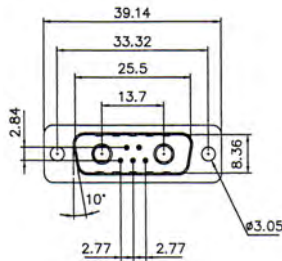
**03W3**



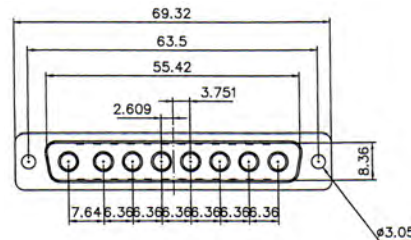
**05W1**



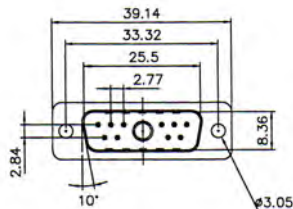
**05W5**



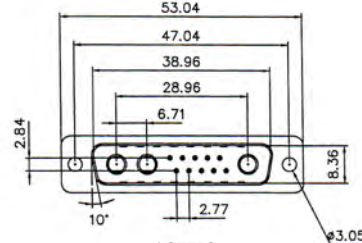
**07W2**



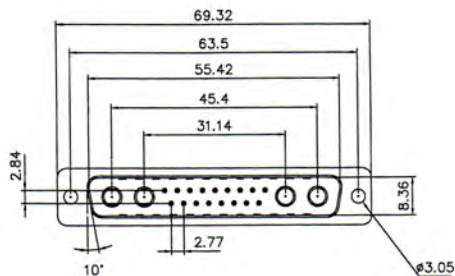
**08W8**



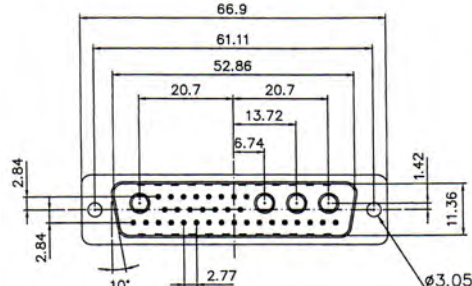
**11W1**



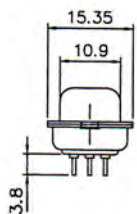
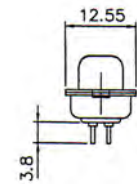
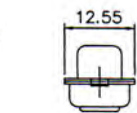
**13W3**



**21W4**



**36W4**



## SPECIFICATIONS

**Current Rating:** 10A, 20A, 40A

**Contact Resistance:** 30mΩ Max.

**Insulation Resistance:** 5000MΩ Min.

**Dielectric Wisting:** 500V AC

**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**SHELL:** STEEL TIN Plated Over Nickel

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5 2 7 5 - x x x x H x x / x x  
1 2 3 4 5

### 1. CONNECTOR TYPE:

"75" MALE STRAIGHT DIP TYPE WITH COAXIAL PINS

### 2. NO. OF CONTACTS:

02W2, 03W3, 05W1, 05W5, 07W2, 08W8, 11W1, 13W3, 21W4, 36W4

### 3. TYPE OF COAXIAL PINS:

"H" HIGH POWER PINS

### 4. CURRENT RATING:

"10" 10A

"20" 20A

"40" 40A

### 5. MOUNTING OPTION:

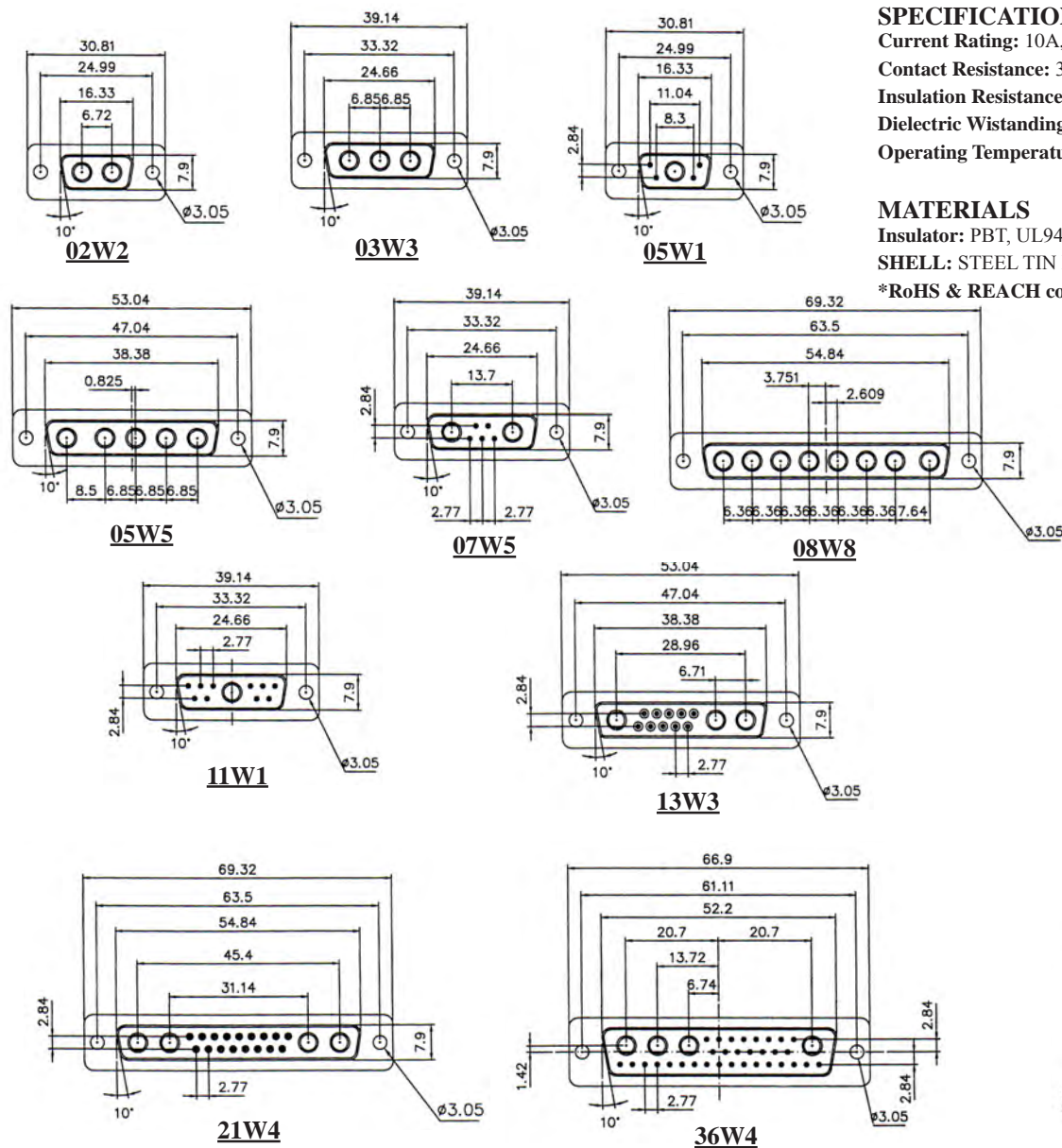
" " Ø3.05MM THROUGH HOLES

"BR" WITH BOARDLOCK, BUT WITHOUT HEXAGONAL BOLTS

"BRJ" WITH BOARDLOCK, BUT WITH ASSEMBLED HEX BOLTS



# D-SUB. HIGH POWER FEMALE CONNECTOR STRAIGHT PCB MOUNT TYPE WITH COAXIAL PINS



## SPECIFICATIONS

**Current Rating:** 10A, 20A, 40A

**Contact Resistance:** 30mΩ Max.

**Insulation Resistance:** 5000MΩ Min.

**Dielectric Withstanding:** 500V AC

**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**SHELL:** STEEL TIN Plated Over Nickel

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5 2 7 6 -  $\frac{x x x x}{1}$   $\frac{H}{2}$   $\frac{x x}{3}$   $\frac{x x}{4}$   $\frac{x x}{5}$

### 1. CONNECTOR TYPE:

"76" FEMALE STRAIGHT DIP TYPE WITH COAXIAL PINS

### 2. NO. OF CONTACTS:

02W2, 03W3, 05W1, 05W5, 07W2, 08W8, 11W1, 13W3, 21W4, 36W4

### 3. TYPE OF COAXIAL PINS:

"H" HIGH POWER PINS

### 4. CURRENT RATING:

"10" 10A

"20" 20A

"40" 40A

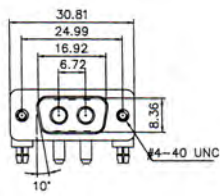
### 5. MOUNTING OPTION:

" " Ø3.05MM THROUGH HOLES

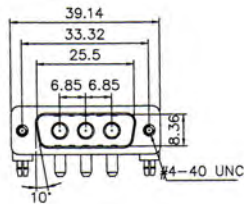
"BR" WITH BOARDLOCK, BUT WITHOUT HEXAGONAL BOLTS

"BRJ" WITH BOARDLOCK, BUT WITH ASSEMBLED HEX BOLTS

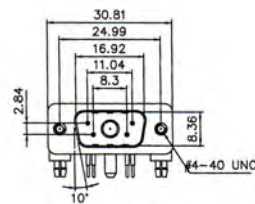
# D-SUB. HIGH POWER MALE CONNECTOR RIGHT ANGLE DIP TYPE WITH COAXIAL PINS



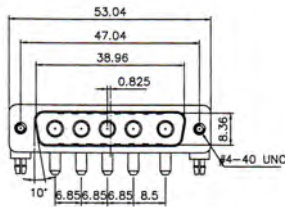
**02W2**



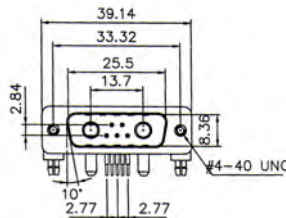
**03W3**



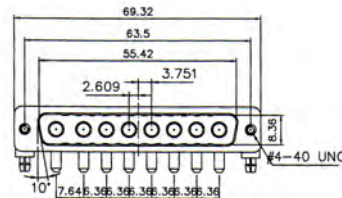
**05W1**



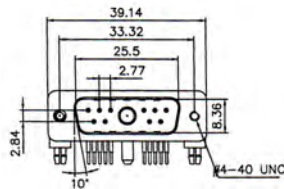
**05W5**



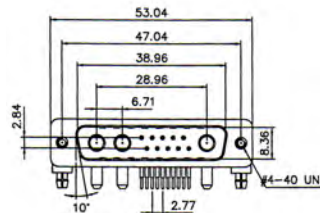
**07W2**



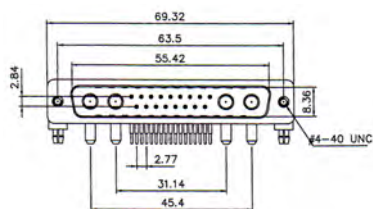
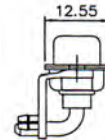
**08W8**



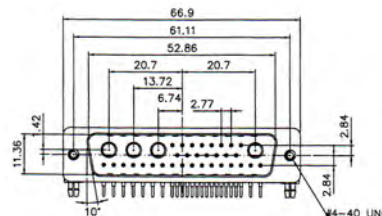
**11W1**



**13W3**



**21W4**



**36W4**



## SPECIFICATIONS

**Current Rating:** 10A, 20A, 40A

**Contact Resistance:** 30mΩ Max.

**Insulation Resistance:** 5000MΩ Min.

**Dielectric Wstanding:** 500V AC

**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**SHELL:** STEEL TIN Plated Over Nickel

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5 2 8 3 -  $\frac{x}{1} \frac{x}{2} \frac{x}{3} \frac{x}{4} \frac{x}{5}$  H  $\frac{x}{3} \frac{x}{4}$  /  $\frac{x}{5}$

### 1. CONNECTOR TYPE:

"83" MALE RIGHT ANGLE TYPE WITH COAXIAL PINS

### 2. NO. OF CONTACTS:

02W2, 03W3, 05W1, 05W5, 07W2, 08W8, 11W1, 13W3, 21W4, 36W4

### 3. TYPE OF COAXIAL PINS:

"H" HIGH POWER PINS

### 4. CURRENT RATING:

"10" 10A

"20" 20A

"40" 40A

### 5. MOUNTING OPTION:

"N" WITH BOARDLOCK, BUT WITHOUT HEXAGONAL BOLTS

"NH" WITH BOARDLOCK, AND WITH LOOSE HEX BOLTS

"NJ" WITH BOARDLOCK, AND WITH ASSEMBLED HEX BOLTS

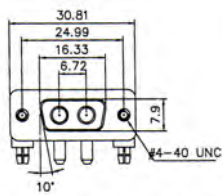
"NB" WITHOUT BOARDLOCK, AND WITHOUT HEXAGONAL BOLTS

"NL" WITHOUT BOARDLOCK, BUT WITH LOOSE HEX BOLTS

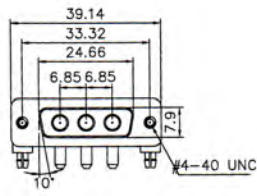
"NK" WITHOUT BOARDLOCK, BUT WITH ASSEMBLED HEX BOLTS



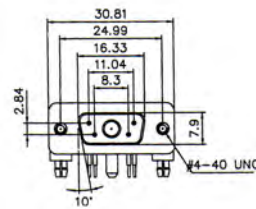
# D-SUB. HIGH POWER FEMALE CONNECTOR RIGHT ANGLE DIP TYPE WITH COAXIAL PINS



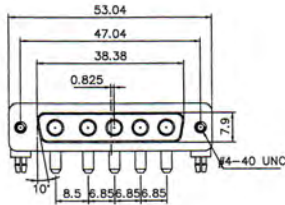
**02W2**



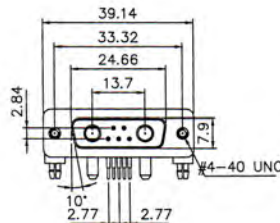
**03W3**



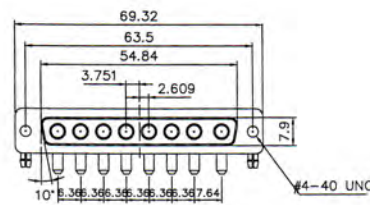
**05W1**



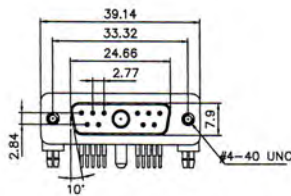
**05W5**



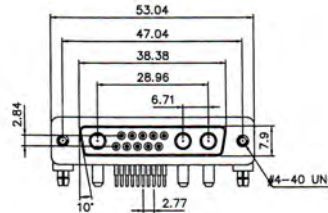
**07W2**



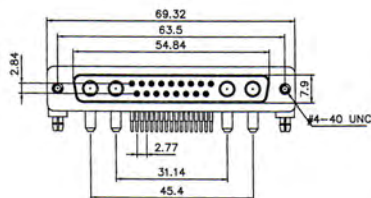
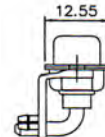
**08W8**



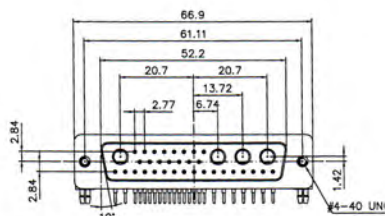
**11W1**



**13W3**



**21W4**



**36W4**



## SPECIFICATIONS

**Current Rating:** 10A, 20A, 40A

**Contact Resistance:** 30mΩ Max.

**Insulation Resistance:** 5000MΩ Min.

**Dielectric Withstanding:** 500V AC

**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**SHELL:** STEEL TIN Plated Over Nickel

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5 2 84 -  $\frac{x}{1} \frac{x}{2} \frac{x}{3} \frac{x}{4} \frac{x}{5}$

### 1. CONNECTOR TYPE:

"84" FEMALE RIGHT ANGLE TYPE WITH COAXIAL PINS

### 2. NO. OF CONTACTS:

02W2, 03W3, 05W1, 05W5, 07W2, 08W8, 11W1, 13W3, 21W4, 36W4

### 3. TYPE OF COAXIAL PINS:

"H" HIGH POWER PINS

### 4. CURRENT RATING:

"10" 10A

"20" 20A

"40" 40A

### 5. MOUNTING OPTION:

"N" WITH BOARDLOCK, BUT WITHOUT HEXAGONAL BOLTS

"NH" WITH BOARDLOCK, AND WITH LOOSE HEX BOLTS

"NJ" WITH BOARDLOCK, AND WITH ASSEMBLED HEX BOLTS

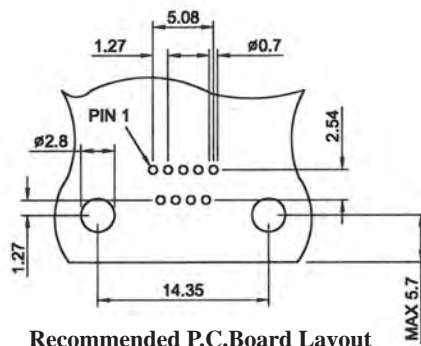
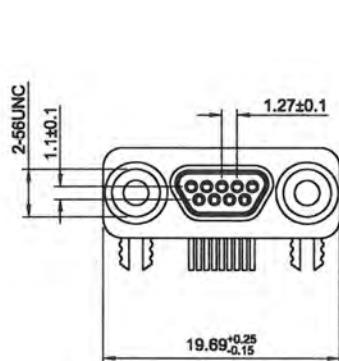
"NB" WITHOUT BOARDLOCK, AND WITHOUT HEXAGONAL BOLTS

"NL" WITHOUT BOARDLOCK, BUT WITH LOOSE HEX BOLTS

"NK" WITHOUT BOARDLOCK, BUT WITH ASSEMBLED HEX BOLTS



## MICRO D-SUB. 9 PIN FEMALE CONNECTOR RIGHT ANGLE TYPE

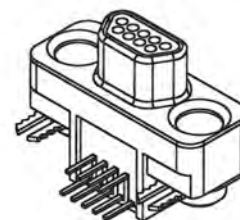
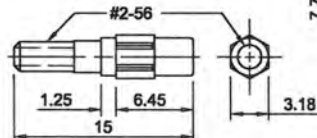
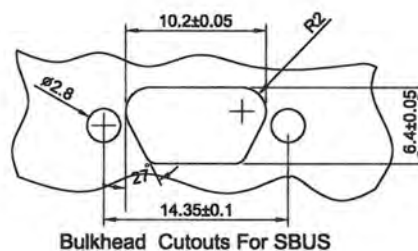
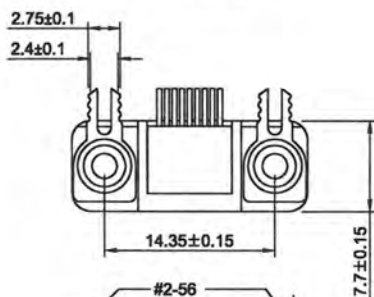
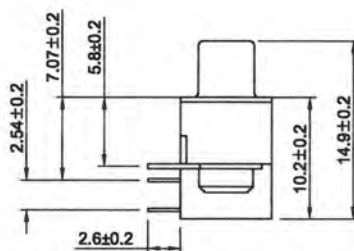
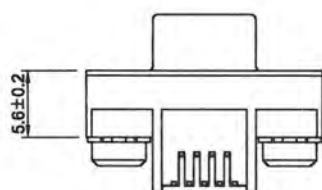


### SPECIFICATIONS

**Current Rating:** 1 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500VAC  
**Contact Resistance:** 45mΩ Max.  
**Operating Temperature:** -55°C to +85°C

### MATERIALS

**Insulator:** Thermoplastic, UL94V-0  
**Contact:** Copper Alloy  
**Shell:** Cold Roller Steel; Bright Tin Over Copper  
**Contact:** Gold on Mating End; Tin on Termination End; All Underplated Nickel  
**\*RoHS & REACH compliant.**

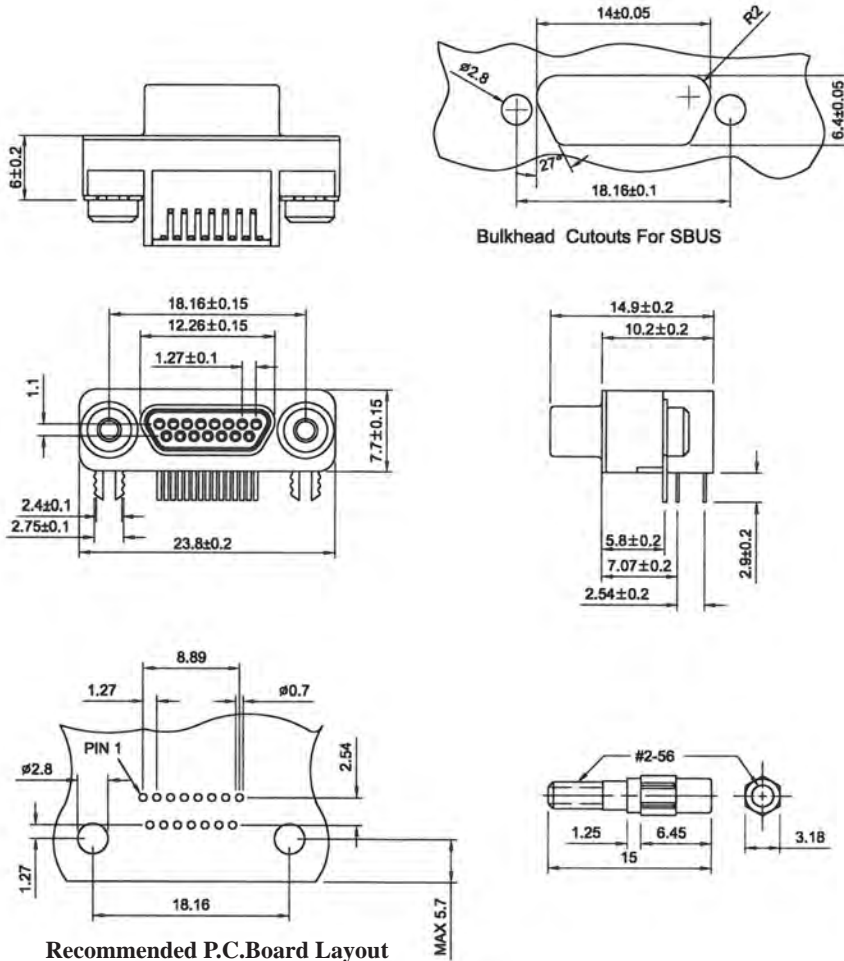


### ORDERING INFORMATION:

P/N 5 2 RF - 0 9 T B / XX  
 1 2 3

1. CONNECTOR TYPE:  
"RF" MICRO D-SUB. FEMALE CONNECTOR
2. NO. OF CONTACTS:  
09
3. MOUNTING OPTION:  
"N" WITHOUT SCREWS  
"NH" LOOSE SCREWS  
"NJ" ASSEMBLED SCREWS

## MICRO D-SUB. 15 PIN FEMALE CONNECTOR RIGHT ANGLE TYPE

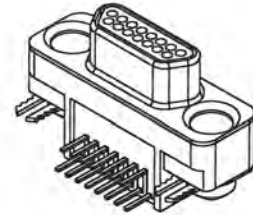


### SPECIFICATIONS

**Current Rating:** 1 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500VAC  
**Contact Resistance:** 45mΩ Max.  
**Operating Temperature:** -55°C to +85°C

### MATERIALS

**Insulator:** Thermoplastic, UL94V-0  
**Contact:** Copper Alloy  
**Shell:** Cold Roller Steel; Bright Tin Over Copper  
**Contact:** Gold on Mating End; Tin on Termination End; All Underplated Nickel  
**\*RoHS & REACH compliant.**

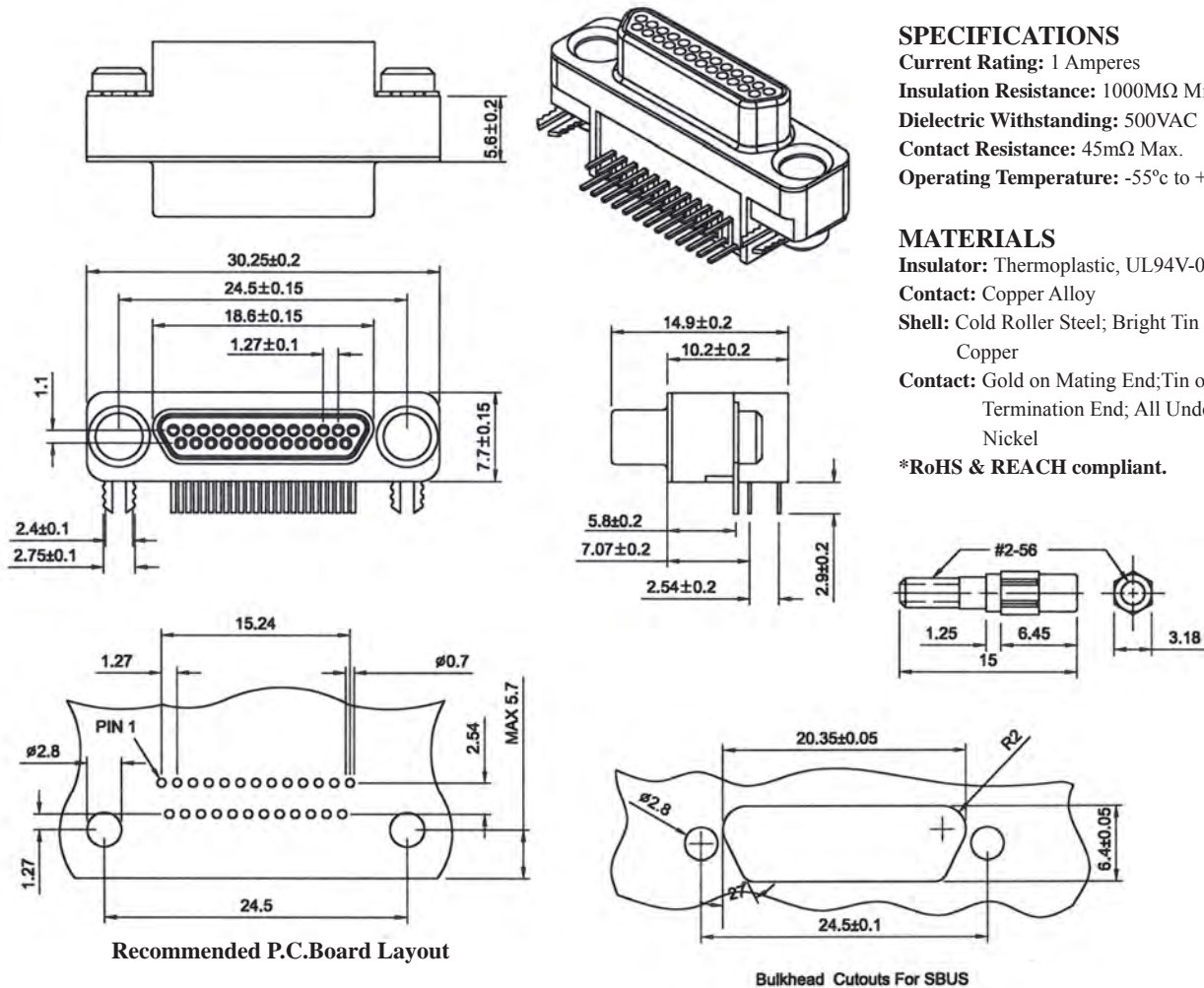


### ORDERING INFORMATION:

P/N 5 2 RF - 15 TB / XX

1. CONNECTOR TYPE:  
"RF" MICRO D-SUB. FEMALE CONNECTOR
2. NO. OF CONTACTS:  
15
3. MOUNTING OPTION:  
"N" WITHOUT SCREWS  
"NH" LOOSE SCREWS  
"NJ" ASSEMBLED SCREWS

# MICRO D-SUB. 25 PIN FEMALE CONNECTOR RIGHT ANGLE TYPE



## SPECIFICATIONS

Current Rating: 1 Amperes  
 Insulation Resistance: 1000MΩ Min  
 Dielectric Withstanding: 500VAC  
 Contact Resistance: 45mΩ Max.  
 Operating Temperature: -55°C to +85°C

## MATERIALS

Insulator: Thermoplastic, UL94V-0  
 Contact: Copper Alloy  
 Shell: Cold Roller Steel; Bright Tin Over Copper  
 Contact: Gold on Mating End; Tin on Termination End; All Underplated Nickel

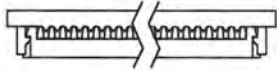
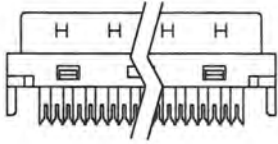
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5 2 RF - 25 TB / XX

1. CONNECTOR TYPE:  
"RF" MICRO D-SUB. FEMALE CONNECTOR
2. NO. OF CONTACTS:  
25
3. MOUNTING OPTION:  
"N" WITHOUT SCREWS  
"NH" LOOSE SCREWS  
"NJ" ASSEMBLED SCREWS

# HALF PITCH (1.27MM) D-SUB. IDC TYPE CABLE MALE CONNECTOR WITHOUT HOOD



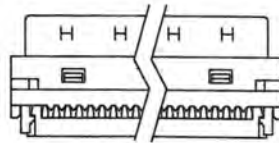
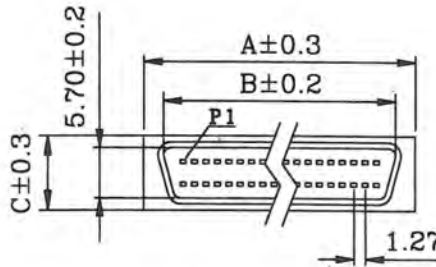
**Termination Cover**



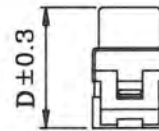
**Termination Plate Cover**



**Wire Holder**



**M Type (W/O Hood)**



## SPECIFICATIONS

**Current Rating:** 1.0 Amp

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 35m OHMS Max.

**Insulation Resistance:** 500M OHMS Min

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Contacts:** Copper Alloy, Gold Selective Plated

**Front Shell:** Steel, Nickel Plated Over Copper

**Cover & Holder:** Plastic Thermoplastic UL94V-0,  
P.B.T. UL94V-0, Black

**\*RoHS & REACH compliant.**

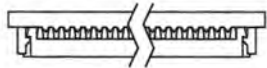
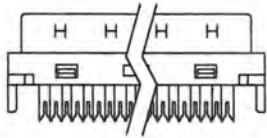
No. of Contacts	A	B	C	D
20	20.20	15.80	9.30	15.00
26	24.00	19.65	9.30	15.00
36	30.40	25.96	8.50	14.60
40	32.95	28.50	9.30	15.40
50	39.30	34.85	9.30	15.50
68	50.80	46.40	9.30	14.95
100	71.15	66.68	9.30	14.70

## ORDERING INFORMATION:

P/N 5 2 M D -  $\frac{x}{1} \frac{x}{2} \frac{M}{3} \frac{x}{3}$

1. NO. OF CONTACTS:  
20, 26, 36, 40, 50, 68, 100
2. MANUFACTURED TYPE:  
"M" MOLDED TYPE (W/O HOOD)
3. WIRE HOLDER (AWG28 & AWG30):  
"6" 0.62MM  
"7" 0.75MM  
"8" 0.80MM  
"9" 0.90MM

# HALF PITCH (1.27MM) D-SUB. IDC TYPE CABLE MALE CONNECTOR KIT WITH HOOD



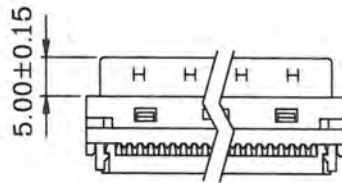
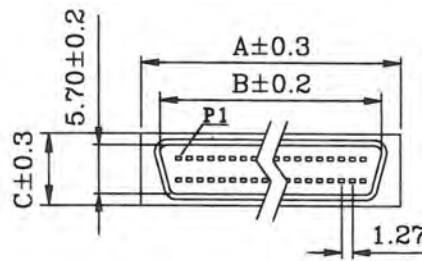
**Termination Cover**



**Termination Plate Cover**



**Wire Holder**



**A Type (With Hood)**

## SPECIFICATIONS

**Current Rating:** 1.0 Amp

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 35m OHMS Max.

**Insulation Resistance:** 500M OHMS Min

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Contacts:** Copper Alloy, Gold Selective Plated

**Front Shell:** Steel, Nickel Plated Over Copper

**Cover & Holder:** Plastic Thermoplastic UL94V-0,  
P.B.T. UL94V-0, Black

\*RoHS & REACH compliant.

No. of Contacts	A	B	C	D
20	20.20	15.80	9.30	15.00
26	24.00	19.65	9.30	15.00
36	30.40	25.96	8.50	14.60
40	32.95	28.50	9.30	15.40
50	39.30	34.85	9.30	15.50
68	50.80	46.40	9.30	14.95
100	71.15	66.68	9.30	14.70

## ORDERING INFORMATION:

P/N 5 2 M D -  $\frac{x}{1} \frac{x}{2} \frac{A}{3} \frac{x}{4} \frac{x}{5} \frac{x}{6}$

### 1. NO. OF CONTACTS:

20, 26, 36, 40, 50, 68, 100

### 2. WIRE HOLDER (AWG28 & AWG30):

"6" 0.62MM

"7" 0.75MM

"8" 0.80MM

"9" 0.90MM

### 3. HOOD TYPE:

PLASTIC HOOD: PHL, PHLs, PHS

METAL HOOD: MHL, MHR, MHS, MHES, MHES

(SEE PAGE C0491~C0499)

### 4. ENTRY HOLE SIZE OF HOOD:

0, 4A, 6, 6A, 7, 7A, 8, 8A, 9,

10A, 11, 12, 14, 14A, 15A, Y

(SEE PAGE C0491~C0499)

### 5. HOOD COLOR OR FINISH:

"V" BEIGE (PLASTIC HOOD)

"B" BLACK (PLASTIC HOOD)

"N" NICKEL PLATED (METAL HOOD)

"G" GOLD PLATED (METAL HOOD)

### 6. THREADED FINISH:

(ONLY FOR SCREW BRACKET)

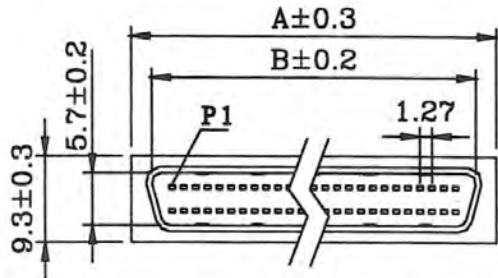
"1" JACKSCREWS #2-56

"2" JACKSCREWS #4-40

"3" JACKSCREWS M2.6



# HALF PITCH (1.27MM) D-SUB. SOLDER TYPE CABLE MALE CONNECTOR WITHOUT HOOD



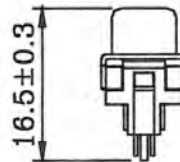
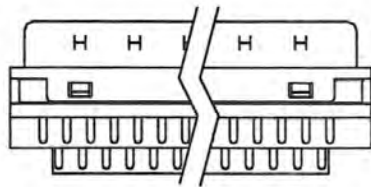
## SPECIFICATIONS

**Current Rating:** 1.0 Amp  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 35m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
**Front Shell:** Steel, Nickel Plated Over Copper  
**\*RoHS & REACH compliant.**

No. of Contacts	A	B
20	20.20	15.80
26	24.00	19.60
50	39.30	34.85
68	50.70	46.35



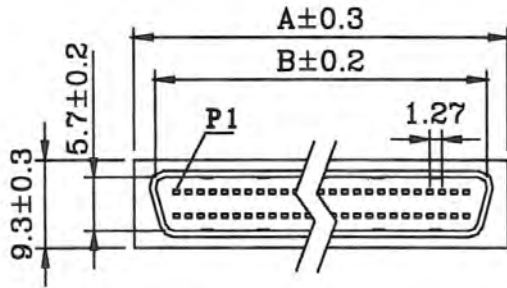
**M Type (W/O Hood)**

## ORDERING INFORMATION:

**P/N 5 2 M T -  $\frac{x}{1} \frac{x}{2} \frac{M}{2}$**

1. NO. OF CONTACTS:  
20, 26, 50, 68
2. MANUFACTURED TYPE:  
"M" MOLDED TYPE (W/O HOOD)

# HALF PITCH (1.27MM) D-SUB. SOLDER TYPE CABLE MALE CONNECTOR KIT WITH HOOD



## SPECIFICATIONS

**Current Rating:** 1.0 Amp

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 35m OHMS Max.

**Insulation Resistance:** 500M OHMS Min

**Operating Temperature:** -55°C to +105°C

## MATERIALS

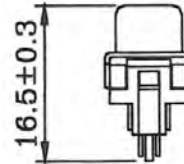
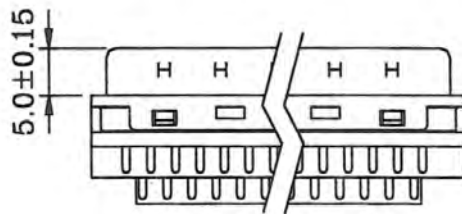
**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Contacts:** Copper Alloy, Gold Selective Plated

**Front Shell:** Steel, Nickel Plated Over Copper

\*RoHS & REACH compliant.

No. of Contacts	A	B
20	20.20	15.80
26	24.00	19.60
50	39.30	34.85
68	50.70	46.35



**A Type (With Hood)**

## ORDERING INFORMATION:

P/N 5 2 M T -  $\frac{X X}{1} A \frac{X X X X X X}{2 3 4 5}$

### 1. NO. OF CONTACTS:

20, 26, 50, 68

### 2. HOOD TYPE:

PLASTIC HOOD: PHL, PHLs, PHS

METAL HOOD: MHL, MHR, MHS, MHES, MHES

(SEE PAGE C0491~C0499)

### 3. ENTRY HOLE SIZE OF HOOD:

0, 4A, 6, 6A, 7, 7A, 8, 8A, 9,

10A, 11, 12, 14, 14A, 15A, Y

(SEE PAGE C0491~C0499)

### 4. HOOD COLOR OR FINISH:

"V" BEIGE (PLASTIC HOOD)

"B" BLACK (PLASTIC HOOD)

"N" NICKEL PLATED (METAL HOOD)

"G" GOLD PLATED (METAL HOOD)

### 5. THREADED FINISH:

(ONLY FOR SCREW BRACKET)

"1" JACKSCREWS #2-56

"2" JACKSCREWS #4-40

"3" JACKSCREWS M2.6

# HALF PITCH (1.27MM) D-SUB. MALE CONNECTOR IDC TYPE FOR 0.635MM PITCH FLAT CABLE ASSEMBLY

## SPECIFICATIONS

**Current Rating:** 1.0 Amp

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 35m OHMS Max.

**Insulation Resistance:** 500M OHMS Min

**Operating Temperature:** -55°C to +105°C

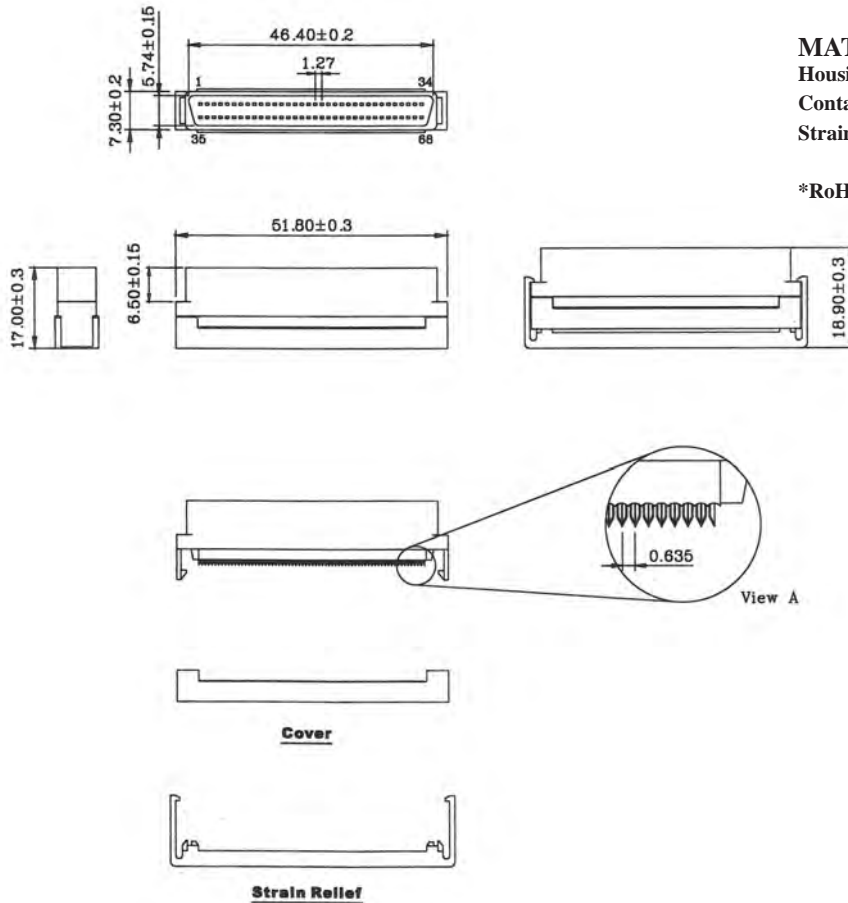
## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Contacts:** Copper Alloy, Gold Selective Plated

**Strain Relief:** Plastic Thermoplastic P.B.T. UL94V-0,  
Black

\*RoHS & REACH compliant.



## ORDERING INFORMATION:

P/N 5 2 M F -  $\frac{68}{T} \frac{P}{2}$

1. NO. OF CONTACTS:  
68
2. BRACKET TYPE:  
"P" ALL PLASTIC

# HALF PITCH (1.27MM) D-SUB. IDC TYPE CABLE FEMALE CONNECTOR WITHOUT HOOD

## SPECIFICATIONS

**Current Rating:** 1.0 Amp

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 35m OHMS Max.

**Insulation Resistance:** 500M OHMS Min

**Operating Temperature:** -55°C to +105°C

## MATERIALS

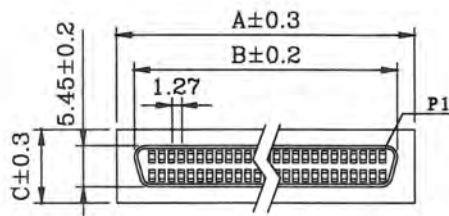
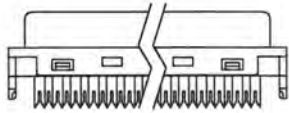
**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Contacts:** Copper Alloy, Gold Selective Plated

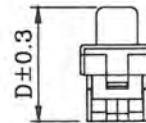
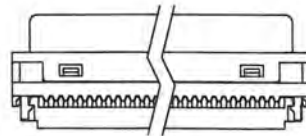
**Front Shell:** Steel, Nickel Plated Over Copper

**Cover & Holder:** Plastic Thermoplastic UL94V-0,  
P.B.T. UL94V-0, Black

\*RoHS & REACH compliant.



No. of Contacts	A	B	C	D
26	24.00	19.46	9.30	14.40
36	30.40	25.80	8.40	14.40
50	39.20	34.70	9.30	15.60
68	50.70	46.20	9.30	14.40

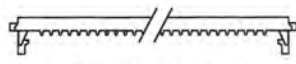
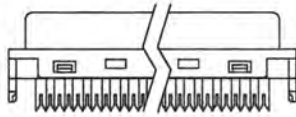


## ORDERING INFORMATION:

P/N 5 2 F D -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{M}{3}$   $\frac{x}{3}$

1. NO. OF CONTACTS:  
26, 36, 50, 68
2. MANUFACTURED TYPE:  
"M" MOLDED TYPE (W/O HOOD)
3. WIRE HOLDER (AWG28 & AWG30):  
"6" 0.62MM  
"7" 0.75MM  
"8" 0.80MM  
"9" 0.90MM

# HALF PITCH (1.27MM) D-SUB. IDC TYPE CABLE FEMALE CONNECTOR KIT WITH HOOD



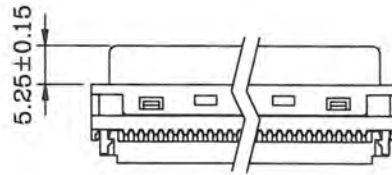
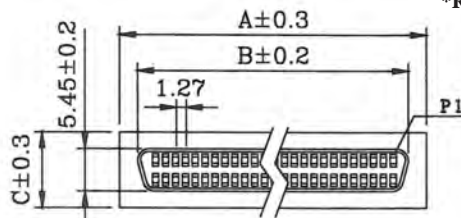
**Termination Cover**



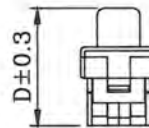
**Termination Plate Cover**



**Wire Holder**



**A Type (With Hood)**



## SPECIFICATIONS

**Current Rating:** 1.0 Amp  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 35m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
**Front Shell:** Steel, Nickel Plated Over Copper  
**Cover & Holder:** Plastic Thermoplastic UL94V-0,  
P.B.T. UL94V-0, Black

\*RoHS & REACH compliant.

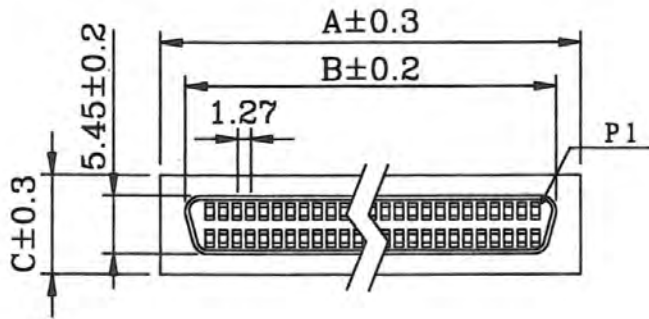
No. of Contacts	A	B	C	D
26	24.00	19.46	9.30	14.40
36	30.40	25.80	8.40	14.40
50	39.20	34.70	9.30	15.60
68	50.70	46.20	9.30	14.40

## ORDERING INFORMATION:

P/N 5 2 F D -  $\frac{X X}{1} A \frac{X X X X}{2} \frac{X X X}{3} \frac{X X X}{4 5 6}$

- NO. OF CONTACTS:  
26, 36, 50, 68
- WIRE HOLDER (AWG28 & AWG30):  
"6" 0.62MM  
"7" 0.75MM  
"8" 0.80MM  
"9" 0.90MM
- HOOD TYPE:  
PLASTIC HOOD: PHL, PHLs, PHS  
METAL HOOD: MHL, MHR, MHS, MHES, MHES  
(SEE PAGE C0491~C0499)
- ENTRY HOLE SIZE OF HOOD:  
0, 4A, 6, 6A, 7, 7A, 8, 8A, 9,  
10A, 11, 12, 14, 14A, 15A, Y  
(SEE PAGE C0491~C0499)
- HOOD COLOR OR FINISH:  
"V" BEIGE (PLASTIC HOOD)  
"B" BLACK (PLASTIC HOOD)  
"N" NICKEL PLATED (METAL HOOD)  
"G" GOLD PLATED (METAL HOOD)
- THREADED FINISH:  
(ONLY FOR SCREW BRACKET)  
"1" JACKSCREWS #2-56  
"2" JACKSCREWS #4-40  
"3" JACKSCREWS M2.6

# HALF PITCH (1.27MM) D-SUB. SOLDER TYPE CABLE FEMALE CONNECTOR WITHOUT HOOD



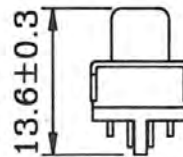
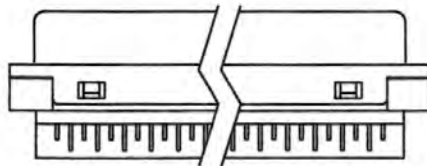
## SPECIFICATIONS

**Current Rating:** 1.0 Amp  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 35m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
**Front Shell:** Steel, Nickel Plated Over Copper  
**\*RoHS & REACH compliant.**

No. of Contacts	A	B	C
26	24.00	19.46	9.30
36	30.40	25.80	8.40
50	39.30	34.70	9.30
68	50.70	46.20	9.30



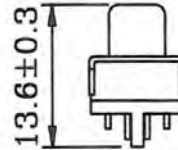
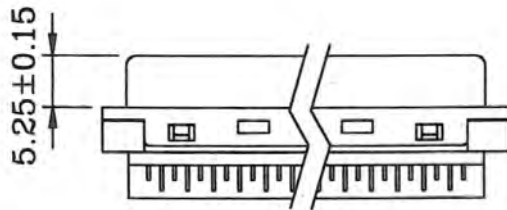
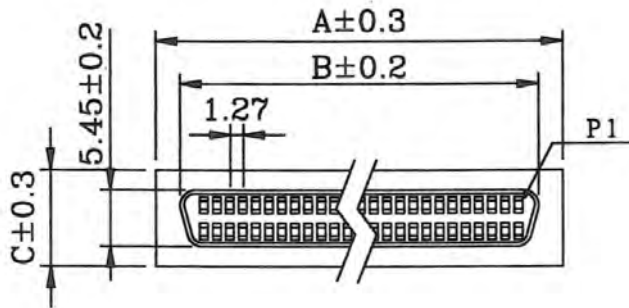
**M Type (W/O Hood)**

## ORDERING INFORMATION:

P/N 5 2 F T -  $\frac{x}{1} \frac{x}{2} \frac{M}{2}$

1. NO. OF CONTACTS:  
26, 36, 50, 68
2. MANUFACTURED TYPE:  
"M" MOLDED TYPE (W/O HOOD)

# HALF PITCH (1.27MM) D-SUB. SOLDER TYPE CABLE FEMALE CONNECTOR KIT WITH HOOD



**A Type (With Hood)**

## SPECIFICATIONS

**Current Rating:** 1.0 Amp  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 35m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
**Front Shell:** Steel, Nickel Plated Over Copper  
**\*RoHS & REACH compliant.**

No. of Contacts	A	B	C
26	24.00	19.46	9.30
36	30.40	25.80	8.40
50	39.30	34.70	9.30
68	50.70	46.20	9.30

## ORDERING INFORMATION:

P/N 5 2 FT -  $\frac{xx}{1}$  A  $\frac{xxx}{2}$   $\frac{xxx}{3}$   $\frac{xxx}{4}$   $\frac{xxx}{5}$

1. NO. OF CONTACTS:  
26, 36, 50, 68
2. HOOD TYPE:  
PLASTIC HOOD: PHL, PHLS, PHS  
METAL HOOD: MHL, MHR, MHS, MHES, MHES  
(SEE PAGE C0491~C0499)
3. ENTRY HOLE SIZE OF HOOD:  
0, 4A, 6, 6A, 7, 7A, 8, 8A, 9,  
10A, 11, 12, 14, 14A, 15A, Y  
(SEE PAGE C0491~C0499)
4. HOOD COLOR OR FINISH:  
"V" BEIGE (PLASTIC HOOD)  
"B" BLACK (PLASTIC HOOD)  
"N" NICKEL PLATED (METAL HOOD)  
"G" GOLD PLATED (METAL HOOD)
5. THREADED FINISH:  
(ONLY FOR SCREW BRACKET)  
"1" JACKSCREWS #2-56  
"2" JACKSCREWS #4-40  
"3" JACKSCREWS M2.6

# HALF PITCH (1.27MM) D-SUB. FEMALE CONNECTOR IDC TYPE FOR 0.635MM PITCH FLAT CABLE ASSEMBLY

## SPECIFICATIONS

**Current Rating:** 1.0 Amp

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 35m OHMS Max.

**Insulation Resistance:** 500M OHMS Min

**Operating Temperature:** -55°C to +105°C

## MATERIALS

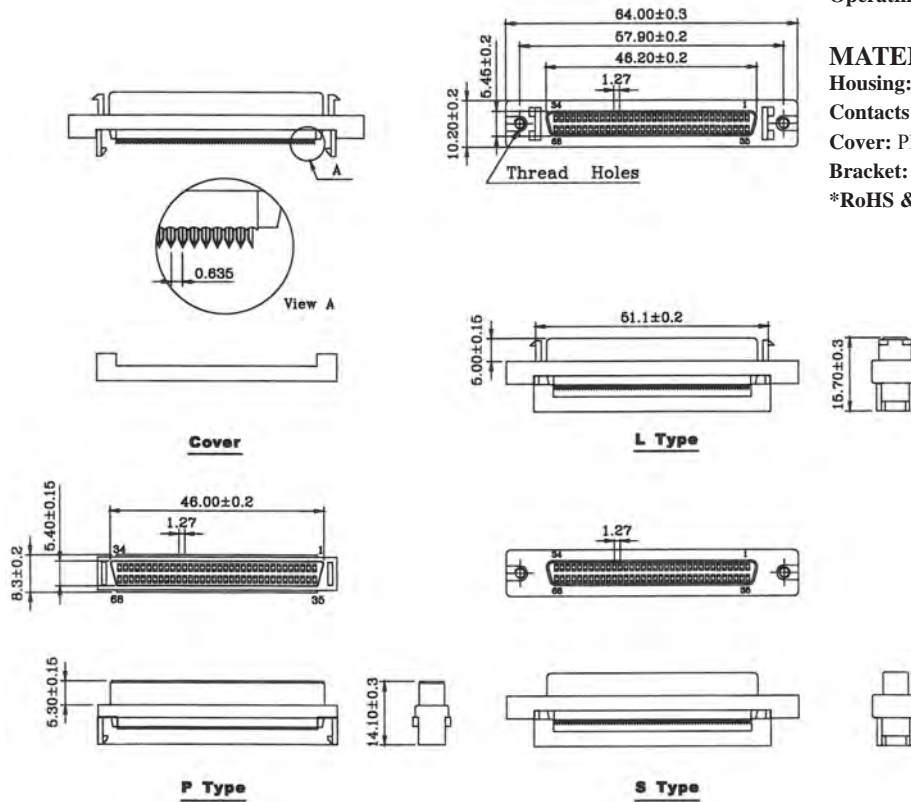
**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Contacts:** Copper Alloy, Gold Selective Plated

**Cover:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Bracket:** Zinc Alloy, Nickel Plated Over Copper

\*RoHS & REACH compliant.



## ORDERING INFORMATION:

**P/N 5 2 F F -  $\frac{68}{1} \frac{x}{2} \frac{x}{3}$**

1. NO. OF CONTACTS:

68

2. BRACKET TYPE:

"L" LATCH BRACKET

"S" SCREW BRACKET

"P" ALL PLASTIC

3. THREADED FINISH:

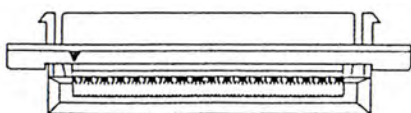
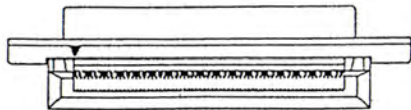
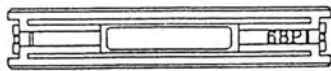
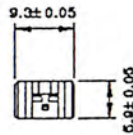
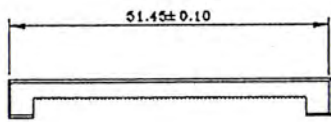
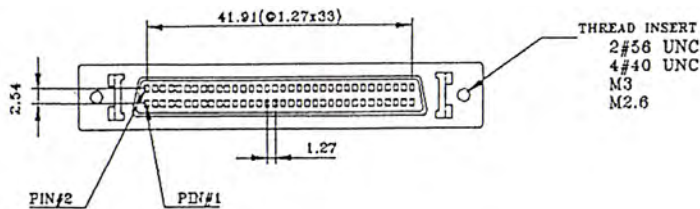
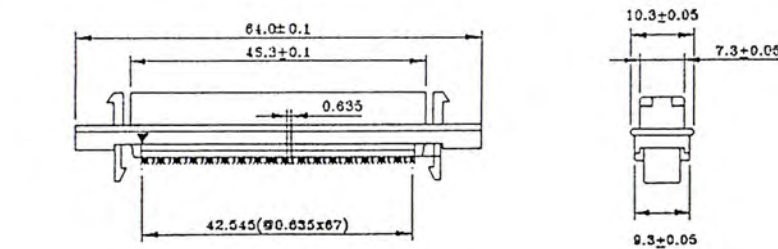
"1" #2-56

"2" #4-40

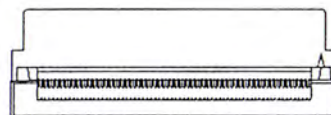
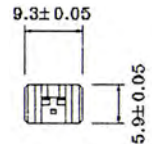
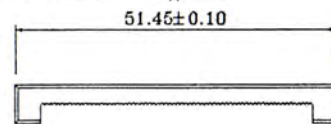
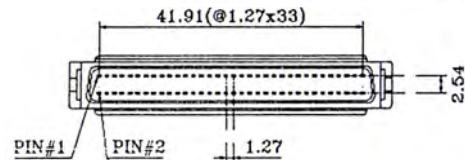
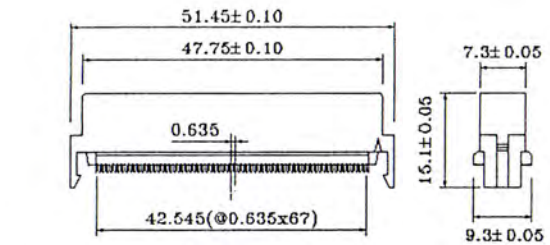
"3" M2.6



# HALF PITCH(1.27MM) D-SUB. CONNECTOR IDC TYPE FOR 0.635MM FLAT CABLE



5220



5219

## SPECIFICATIONS

Current Rating: 1.0 Ampere  
 Contact Resistance: 30mΩ Max.  
 Insulation Resistance: 1000MΩ Min.  
 Dielectric Voltage: 500V AC at 1 Minute  
 Operating Temperature: -55°C to +105°C

## MATERIALS

Insulator: PBT, UL94V-0 Rated  
 Contact: Brass  
 \*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 52  $\frac{xx}{1}$  - 68  $\frac{x}{2}$   $\frac{x}{3}$

### 1. CONNECTOR TYPE:

"19" MALE  
 "20" FEMALE

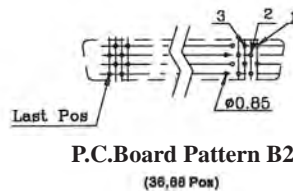
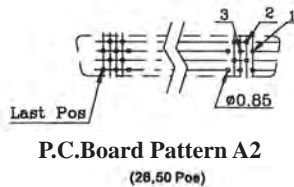
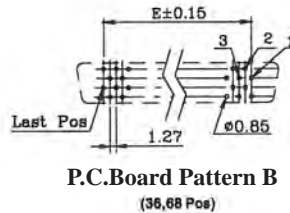
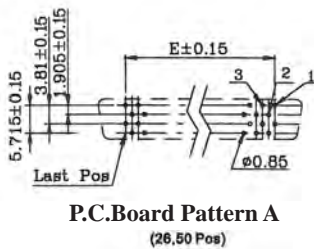
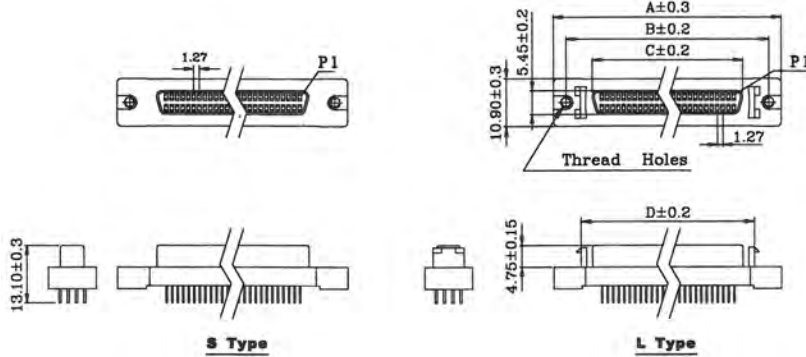
### 2. NO. OF CONTACTS:

68

### 3. MOUNTING TYPE:

"A" MALE ALL PLASTIC W/O S.R.  
 "B" MALE ALL PLASTIC WITH S.R.  
 "C" FEMALE WITH LATCHES  
 UNC2-56 THREADED  
 "D" FEMALE WITH LATCHES  
 UNC4-40 THREADED  
 "E" FEMALE W/O LATCHES  
 UNC2-56 THREADED  
 "F" FEMALE W/O LATCHES  
 UNC4-40 THREADED

# HALF PITCH (1.27MM) D-SUB. FEMALE CONNECTOR VERTICAL MOUNT DIP TYPE



## SPECIFICATIONS

**Current Rating:** 1.0 Amp

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 35m OHMS Max.

**Insulation Resistance:** 500M OHMS Min

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Contacts:** Copper Alloy, Gold Selective Plated

**Bracket Shell:** Zinc Alloy, Nickel Plated Over Copper

\*RoHS & REACH compliant.

No. of Contacts	A	B	C	D	E
26	37.20	31.20	19.46	24.70	15.24
36	43.50	37.60	25.80	31.00	21.59
50	52.60	46.50	34.70	40.10	30.48
68	64.00	57.90	46.20	50.90	41.91

## ORDERING INFORMATION:

**P/N 5 2 F 3 -  $\frac{X X X X X}{T 2 3 4}$**

### 1. NO. OF CONTACTS:

26, 36, 50, 68

### 2. BRACKET TYPE:

"L" LATCH BRACKET

"S" SCREW BRACKET

### 3. THREADED FINISH:

"1" #2-56

"2" #4-40

"3" M2.6

### 4. PCB LAYOUT TYPE:

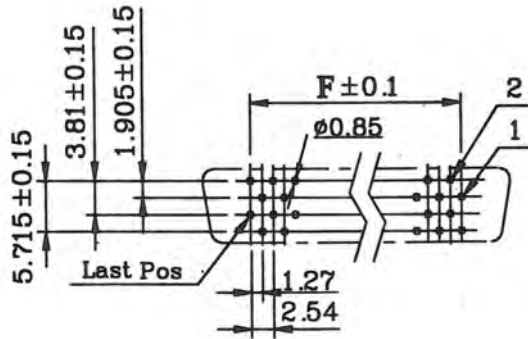
"A" STANDARD (26P, 50P)

"A2" REVERSE (26P, 50P)

"B" STANDARD (36P, 68P)

"B2" REVERSE (36P, 68P)

# HALF PITCH (1.27MM) D-SUB. FEMALE CONNECTOR VERTICAL MOUNT DIP TYPE



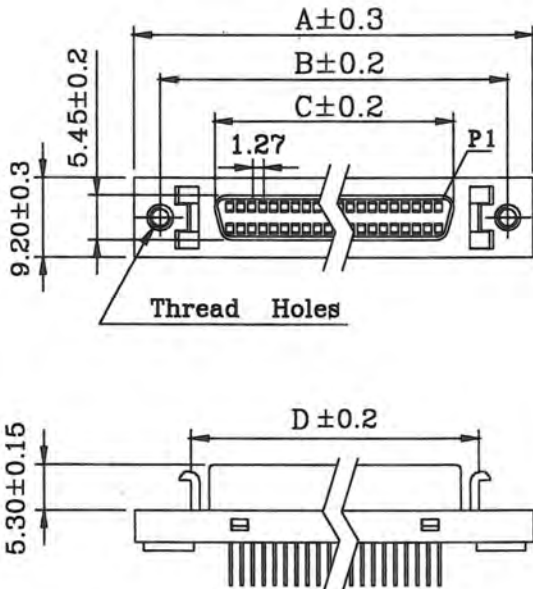
Recommended P.C.Board Layout

## SPECIFICATIONS

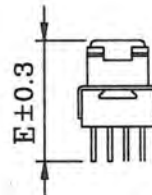
**Current Rating:** 1.0 Amp  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 35m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
**Front Shell:** Steel, Nickel Plated Over Copper  
**Bracket:** Steel, Nickel Plated Over Copper  
**\*RoHS & REACH compliant.**



No. of Contacts	A	B	C	D	E	F
40	46.10	40.15	28.25	33.30	13.20	24.13
100	84.18	78.25	66.45	71.50	12.70	62.23

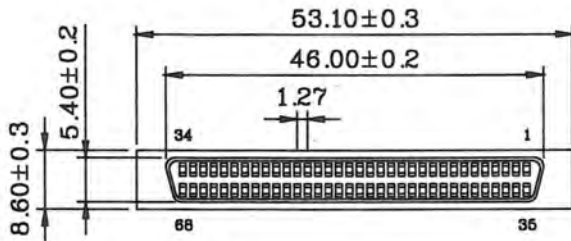


## ORDERING INFORMATION:

P/N 5 2 F 4 -  $\frac{x}{1} \frac{x}{2} \frac{L}{3} \frac{x}{3}$

1. NO. OF CONTACTS:  
40, 100
2. BRACKET TYPE:  
"L" LATCH BRACKET
3. THREADED FINISH:  
"1" #2-56  
"2" #4-40  
"3" M2.6

# HALF PITCH (1.27MM) D-SUB. FEMALE CONNECTOR ALL PLASTIC VERTICAL MOUNT DIP TYPE

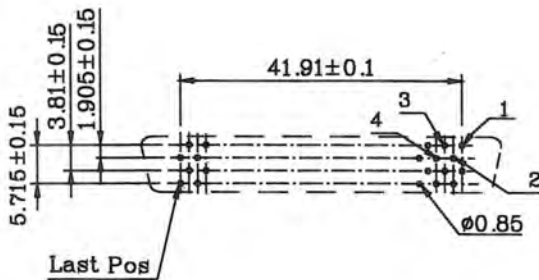
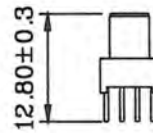
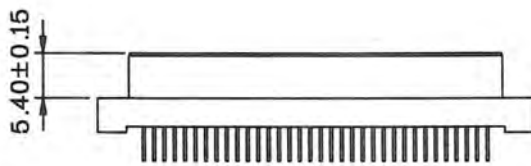


## SPECIFICATIONS

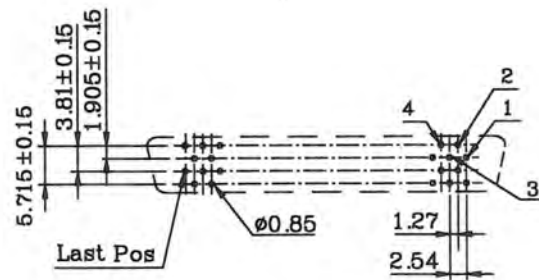
**Current Rating:** 1.0 Amp  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 35m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
 \*RoHS & REACH compliant.



P.C.Board Pattern B  
(68 Pos)



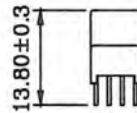
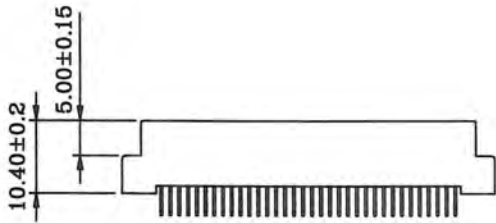
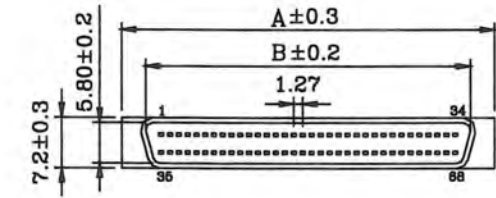
P.C.Board Pattern B2  
(68 Pos)

## ORDERING INFORMATION:

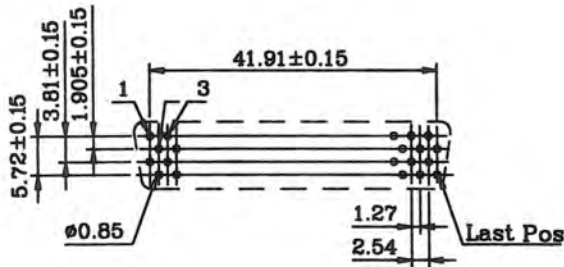
P/N 5 2 F 5 -  $\frac{x}{1} \frac{x}{2} \frac{P}{3} \frac{x}{3}$

1. NO. OF CONTACTS:  
68
2. BRACKET TYPE:  
"P" ALL PLASTIC
3. PCB LAYOUT TYPE:  
"B" STANDARD (68P)  
"B2" REVERSE (68P)

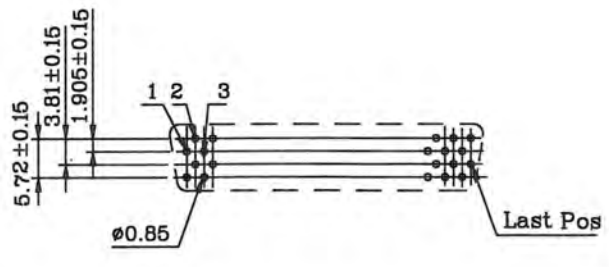
# HALF PITCH (1.27MM) D-SUB. MALE CONNECTOR ALL PLASTIC VERTICAL MOUNT DIP TYPE



Hosing	A	B
L	53.10	46.50
S	48.60	46.50



P.C.Board Pattern B  
(68 Pos)



P.C.Board Pattern B2  
(68 Pos)

## SPECIFICATIONS

**Current Rating:** 1.0 Amp  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 35m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

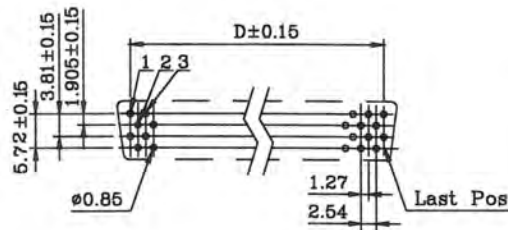
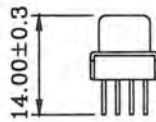
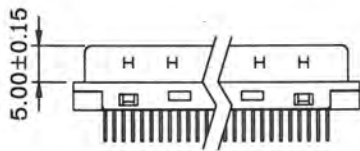
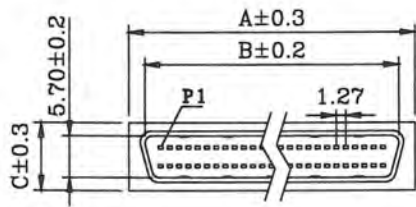
**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
**\*RoHS & REACH compliant.**

## ORDERING INFORMATION:

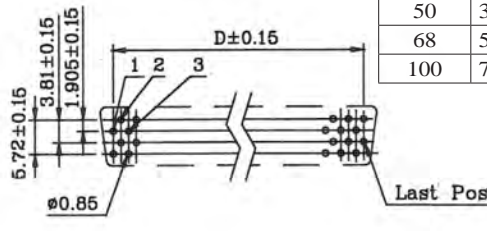
P/N 5 2 M 1 -  $\frac{x}{T} \frac{x}{2} \frac{P}{3} \frac{x}{4}$

1. NO. OF CONTACTS:  
68
2. BRACKET TYPE:  
"P" ALL PLASTIC
3. PCB LAYOUT TYPE:  
"B" STANDARD (68P)  
"B2" REVERSE (68P)
4. HOUSING FINISH:  
"L" LONG  
"S" SHORT

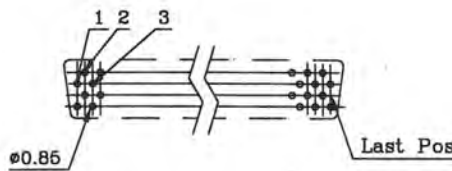
# HALF PITCH (1.27MM) D-SUB. MALE CONNECTOR VERTICAL MOUNT DIP TYPE



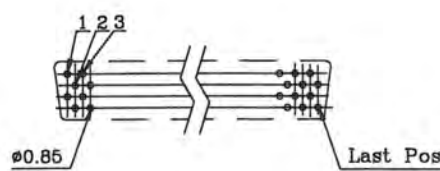
**P.C.Board Pattern A**  
(26,50 Pos)



**P.C.Board Pattern B**  
(20,36,40,68,100 Pos)



**P.C.Board Pattern A2**  
(26,50 Pos)



**P.C.Board Pattern B2**  
(20,36,40,68,100 Pos)

## SPECIFICATIONS

**Current Rating:** 1.0 Amp

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 35m OHMS Max.

**Insulation Resistance:** 500M OHMS Min

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Contacts:** Copper Alloy, Gold Selective Plated

**Front Shell:** Steel, Nickel Plated Over Copper

**\*RoHS & REACH compliant.**

No. of Contacts	A	B	C	D
20	20.20	15.80	9.30	11.43
26	24.00	19.65	9.30	15.24
36	30.40	25.96	8.50	21.59
40	32.95	28.50	9.30	24.13
50	39.30	34.85	9.30	30.48
68	50.70	46.35	9.30	41.91
100	71.05	66.68	9.30	62.23

## ORDERING INFORMATION:

**P/N 5 2 M 2 -  $\frac{x x x}{T 2}$**

1. NO. OF CONTACTS:

20, 26, 36, 40, 50, 68, 100

2. PCB LAYOUT TYPE:

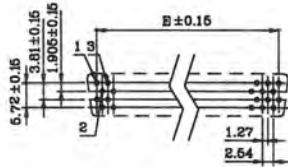
"A" STANDARD (26P, 50P)

"A2" REVERSE (26P, 50P)

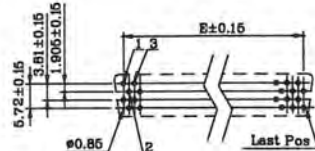
"B" STANDARD (20P, 36P, 40P, 68P, 100P)

"B2" REVERSE (20P, 36P, 40P, 68P, 100P)

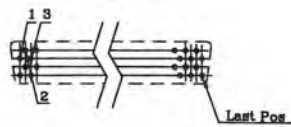
# HALF PITCH (1.27MM) D-SUB. MALE CONNECTOR VERTICAL MOUNT DIP TYPE



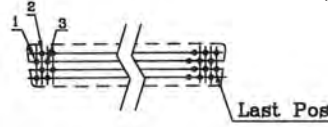
P.C.Board Pattern A  
(26,50 Pos)



P.C.Board Pattern B  
(36,68 Pos)



P.C.Board Pattern A2  
(26,50 Pos)



P.C.Board Pattern B2  
(36,68 Pos)

## SPECIFICATIONS

Current Rating: 1.0 Amp

Dielectric Withstanding: 500V AC

Contact Resistance: 35m OHMS Max.

Insulation Resistance: 500M OHMS Min

Operating Temperature: -55°C to +105°C

## MATERIALS

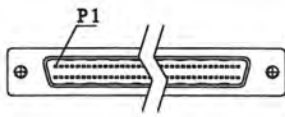
Housing: Plastic Thermoplastic P.B.T. UL94V-0, Black

Contacts: Copper Alloy, Gold Selective Plated

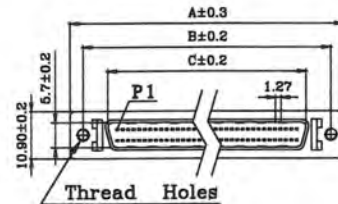
Front Shell: Steel, Nickel Plated Over Copper

\*RoHS & REACH compliant.

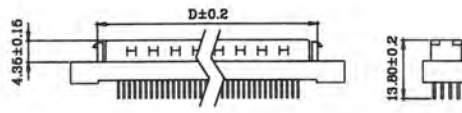
No. of Contacts	A	B	C	D	E
26	37.20	31.20	19.65	24.70	15.24
36	43.50	37.60	25.96	31.00	21.59
50	52.60	46.80	34.85	40.10	30.50
68	64.00	57.90	46.35	51.00	41.91



S Type



L Type



## ORDERING INFORMATION:

P/N 5 2 M 3 -  $\frac{X X X X X}{T 2 3 4}$

### 1. NO. OF CONTACTS:

26, 36, 50, 68

### 2. BRACKET TYPE:

"L" LATCH BRACKET

"S" SCREW BRACKET

### 3. THREADED FINISH:

"1" #2-56

"2" #4-40

"3" M2.6

### 4. PCB LAYOUT TYPE:

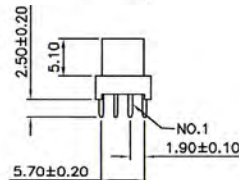
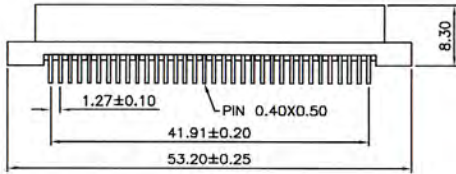
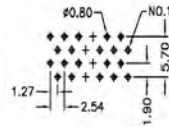
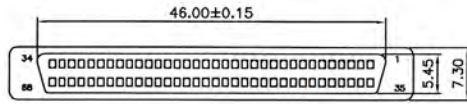
"A" STANDARD (26P, 50P)

"A2" REVERSE (26P, 50P)

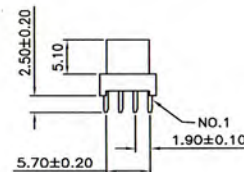
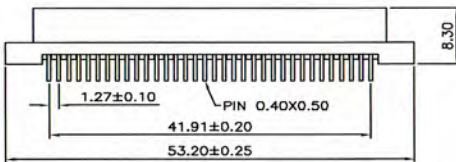
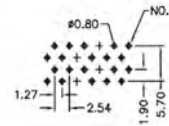
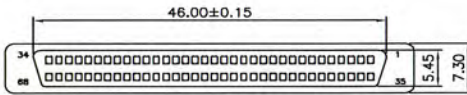
"B" STANDARD (36P, 68P)

"B2" REVERSE (36P, 68P)

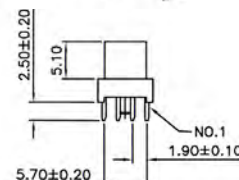
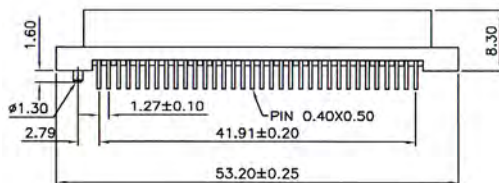
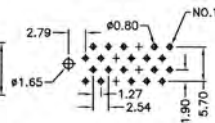
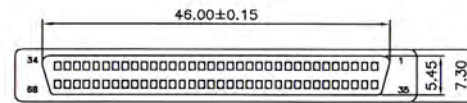
# HALF PITCH(1.27MM) SCSI-III D-SUB. FEMALE CONNECTOR STRAIGHT PCB MOUNT TYPE



**5228-68P01**



**5228-68P02**



**5228-68P03**

## SPECIFICATIONS

- Current Rating: 1.0 Ampere
- Contact Resistance: 20mΩ Max.
- Insulation Resistance: 1000MΩ Min.
- Dielectric Wisting: 300V AC
- Operating Temperature: -40°C to +105°C

## MATERIALS

- Insulator: PBT, UL94V-0 Rated
- Contact: Phosphor Bronze
- \*RoHS & REACH compliant.

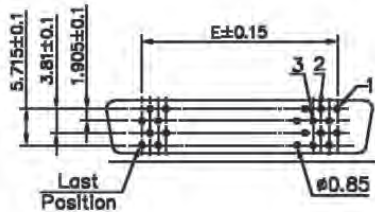
## ORDERING INFORMATION:

P/N 5 2 2 8 -  $\frac{68}{T}$   $\frac{P}{2}$   $\frac{X}{3}$   $\frac{X}{4}$

- NO. OF CONTACTS:  
"68" HPDB68F (SCSI-III FEMALE)
- HOUSING TYPE:  
"P" ALL PLASTIC TYPE
- PCB LAYOUT TYPE:  
"01" TYPE 1 W/O POST  
"02" TYPE 2 W/O POST  
"03" TYPE 2 WITH POST



# HALF PITCH(1.27MM) D-SUB. FEMALE CONNECTOR STRAIGHT PCB MOUNTING TYPE



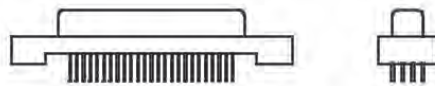
Recommended P.C.Board Layout

## SPECIFICATIONS

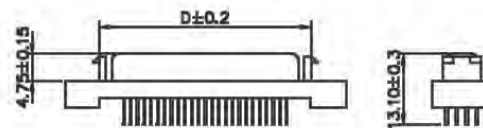
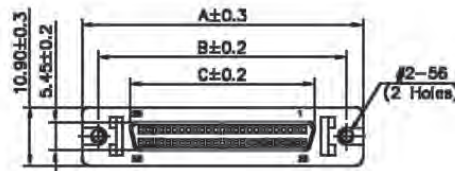
- Current Rating: 1.0 Ampere
- Contact Resistance: 35mΩ Max.
- Insulation Resistance: 500MΩ Min.
- Dielectric Wisting: 250V AC
- Operating Temperature: -55°C to +105°C

## MATERIALS

- Insulator: PBT, UL94V-0 Rated
- Contact: Phosphor Bronze
- \*RoHS & REACH compliant.



Without Latch blocks



With latch blocks

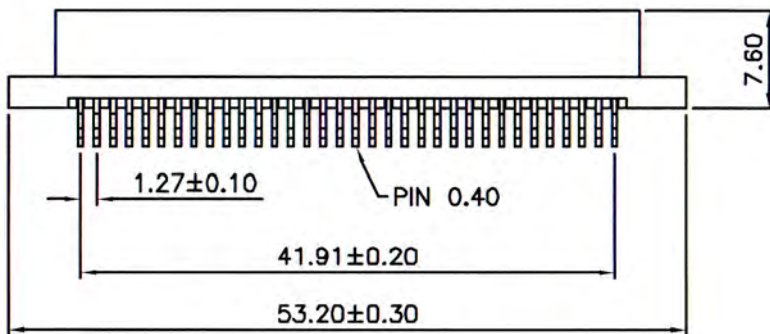
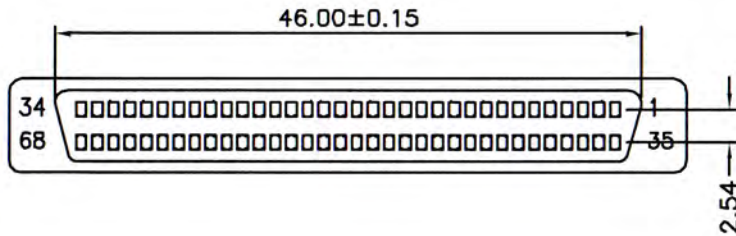
No. of Contacts	Dimensions(mm)				
	A	B	C	D	E
26	37.20	31.20	19.46	24.70	15.24
36	43.50	37.60	25.80	31.00	21.59
50	52.60	46.80	34.70	40.10	30.48
68	64.00	57.90	46.20	50.09	41.91

## ORDERING INFORMATION:

P/N 5 1 9 4 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

1. CONNECTOR TYPE:  
"94" FEMALE
2. NO. OF CONTACTS:  
26, 36, 50, 68
3. SHELL TYPE:  
"N" NICKEL PLATED METAL SHELL  
"P" ALL PLASTIC
4. SCREW TYPE:  
"2" UNC #2-56  
"4" UNC #4-40  
" " NONE
5. BRACKET TYPE:  
" " W/O BRACKET (ALL PLASTIC)  
"1" WITH LATCH BRACKETS (METAL SHELL)  
"2" W/O LATCH BRACKETS (METAL SHELL)

## HALF PITCH(1.27MM) SCSI-III FEMALE CONNECTOR STRADDLE MOUNT TYPE



### SPECIFICATIONS

**Current Rating:** 1.0 Ampere

**Contact Resistance:** 20m $\Omega$  Max.

**Insulation Resistance:** 1000M $\Omega$  Min.

**Dielectric Withstanding:** 300V AC/DC

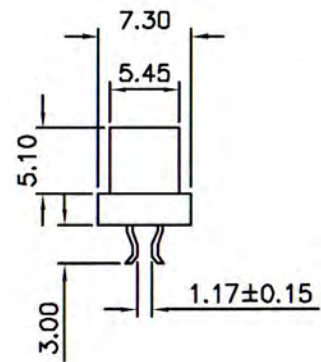
**Operating Temperature:** -40 $^{\circ}$ c to +105 $^{\circ}$ c

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Phosphor Bronze

\*RoHS & REACH compliant.

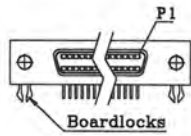


### ORDERING INFORMATION:

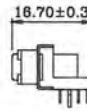
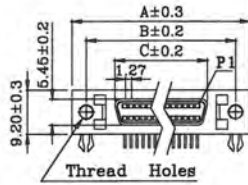
**P/N 5 2 4 6 - 6 8 P 0 1**  
**1 2 3**

1. NO. OF CONTACTS:  
"68" HPDB68F (SCSI-III FEMALE)
2. HOUSING TYPE:  
"P" ALL PLASTIC TYPE
3. PCB LAYOUT TYPE:  
"01" TYPE 1

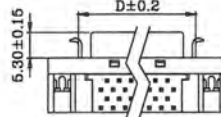
# HALF PITCH (1.27MM) D-SUB. FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Boardlocks



S Type



L Type

## SPECIFICATIONS

Current Rating: 1.0 Amp

Dielectric Withstanding: 500V AC

Contact Resistance: 35m OHMS Max.

Insulation Resistance: 500M OHMS Min

Operating Temperature: -55°C to +105°C

## MATERIALS

Housing: Plastic Thermoplastic P.B.T. UL94V-0, Black

Contacts: Copper Alloy, Gold Selective Plated

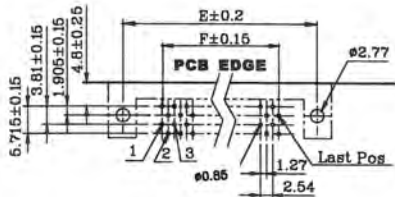
Front Shell: Steel, Nickel Plated Over Copper

Bracket Shell: Steel, Nickel Plated Over Copper

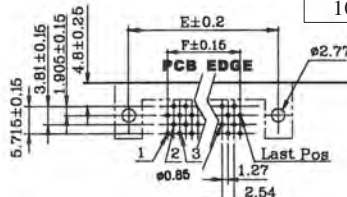
Boardlock: Copper Alloy, Tin Plated Over Copper

\*RoHS & REACH compliant.

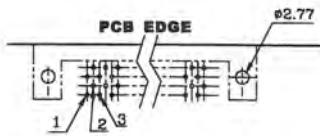
No. of Contacts	A	B	C	D	E	F
20	33.50	27.60	15.64	20.80	27.60	11.43
26	37.19	31.26	19.45	24.65	31.26	15.24
40	46.10	40.15	28.25	33.70	40.15	24.13
50	52.43	46.50	34.70	39.90	46.50	30.48
68	63.86	57.93	46.13	51.32	57.93	41.91
100	84.18	78.23	66.45	71.50	78.23	62.23



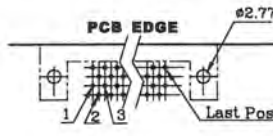
P.C. Board Pattern B  
(20, 40, 68, 100 Pos)



P.C. Board Pattern A  
(26, 50 Pos)



P.C. Board Pattern B2  
(20, 40, 68, 100 Pos)



P.C. Board Pattern A2  
(26, 50 Pos)

## ORDERING INFORMATION:

P/N 5 2 F 1 -  $\frac{X X X X X}{T 2 3 4}$

### 1. NO. OF CONTACTS:

20, 26, 40, 50, 68, 100

### 2. BRACKET TYPE:

"L" LATCH BRACKET

"S" SCREW BRACKET

### 3. THREADED FINISH:

"1" #2-56

"2" #4-40

"3" M2.6

### 4. PCB LAYOUT TYPE:

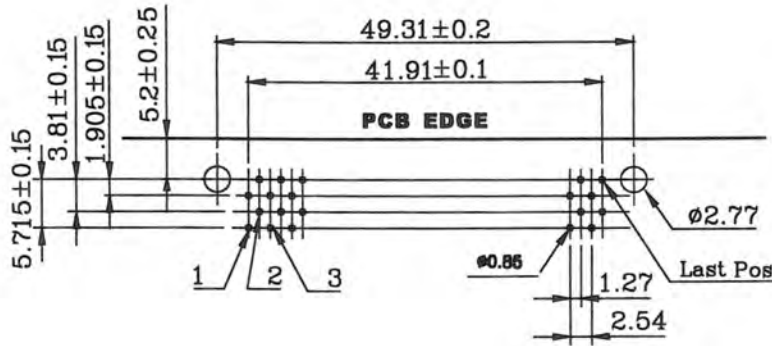
"A" STANDARD (26P, 50P)

"A2" REVERSE (26P, 50P)

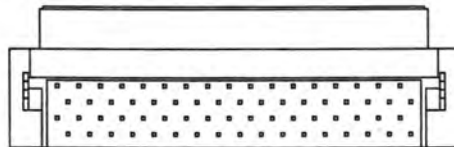
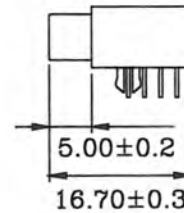
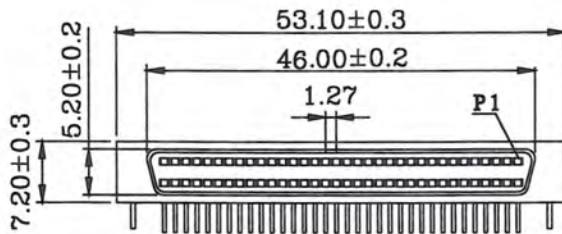
"B" STANDARD (20P, 40P, 68P, 100P)

"B2" REVERSE (20P, 40P, 68P, 100P)

# HALF PITCH (1.27MM) D-SUB. FEMALE CONNECTOR ALL PLASTIC RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout



## SPECIFICATIONS

Current Rating: 1.0 Amp  
Dielectric Withstanding: 500V AC  
Contact Resistance: 35m OHMS Max.  
Insulation Resistance: 500M OHMS Min  
Operating Temperature: -55°C to +105°C

## MATERIALS

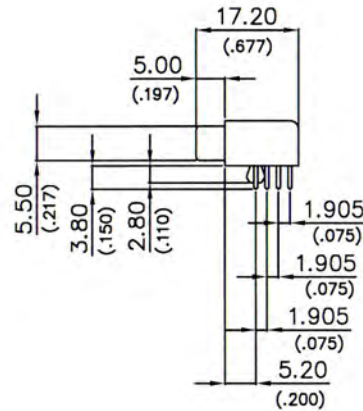
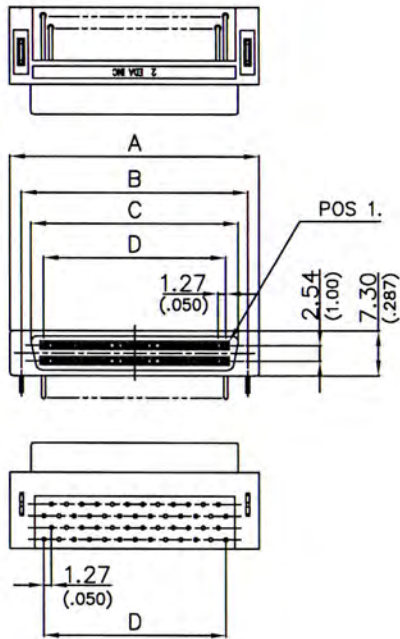
Housing: Plastic Thermoplastic P.B.T. UL94V-0, Black  
Contacts: Copper Alloy, Gold Selective Plated  
Boardlock: Copper Alloy, Tin Plated Over Copper  
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5 2 F 2 -  $\frac{X X}{I} \frac{P}{2}$

1. NO. OF CONTACTS:  
68
2. BRACKET TYPE:  
"P" ALL PLASTIC

# HALF PITCH(1.27MM) D-SUB. FEMALE CONNECTOR RIGHT ANGLE ALL PLASTIC TYPE



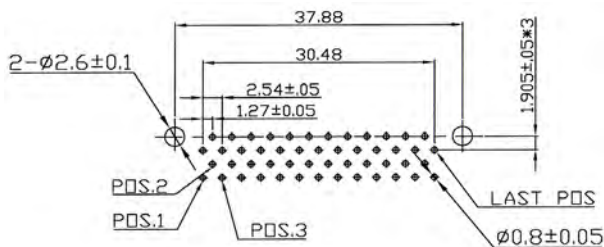
## SPECIFICATIONS

- Current Rating:** 1.0 Ampere
- Contact Resistance:** 35mΩ Max.
- Insulation Resistance:** 500MΩ Min.
- Dielectric Wistinging:** 250V AC
- Operating Temperature:** -55°C to +105°C

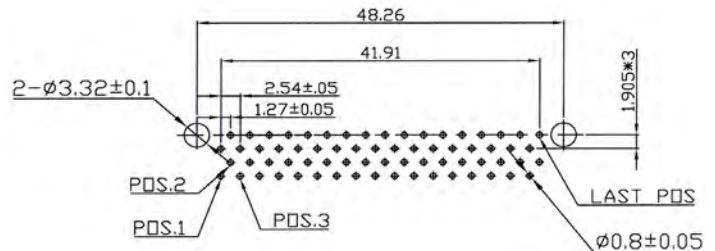
## MATERIALS

- Insulator:** PBT, UL94V-0 Rated
- Contact:** Phosphor Bronze
- \*RoHS & REACH compliant.**

No. of Contacts	Dimensions(mm)			
	A	B	C	D
50	41.70	37.88	10.96	30.48
68	53.13	49.31	46.13	41.91



Recommended P.C.Board Hole Pattern  
(5246-50Pxx)



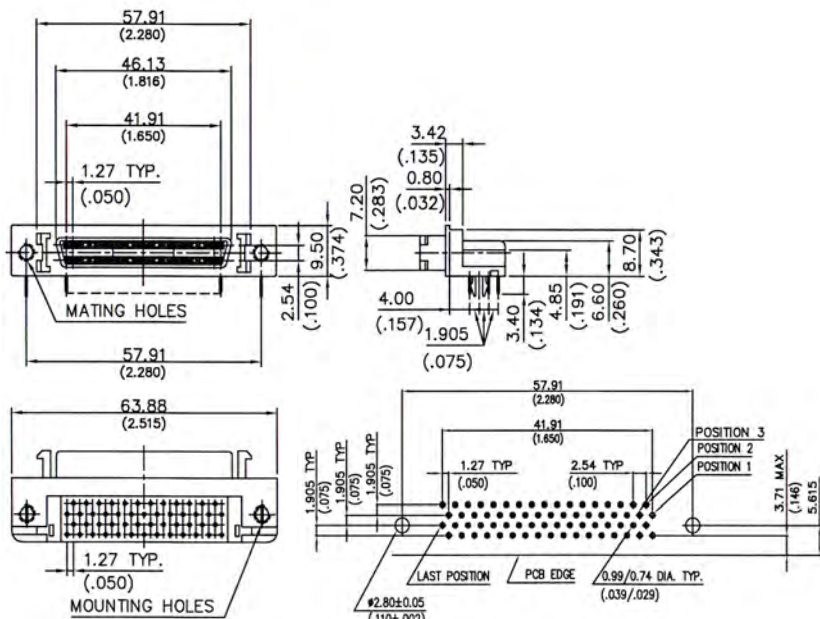
Recommended P.C.Board Hole Pattern  
(5246-68Pxx)

## ORDERING INFORMATION:

P/N 5 2 4 6 -  $\frac{x}{1} \frac{x}{2} \frac{P}{3} \frac{x}{4} 0$

- NO. OF CONTACTS:  
"50" HPDB50F (SCSI- II FEMALE)  
"68" HPDB68F (SCSI-III FEMALE)
- HOUSING TYPE:  
"P" ALL PLASTIC TYPE
- SCREW TYPE OF MATING HOLES:  
"C" UNC#4-40  
"F" UNC#2-56  
"J" NO SCREW
- BRACKET TYPE:  
"0" NO BRACKET (ALL PLASTIC)

# HALF PITCH(1.27MM) D-SUB. FEMALE CONNECTOR RIGHT ANGLE TYPE WITH METAL SHELL



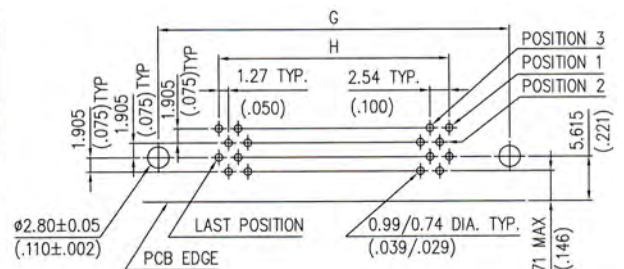
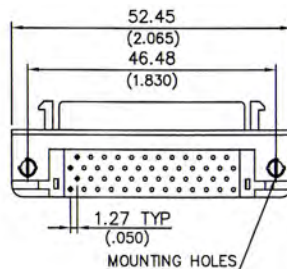
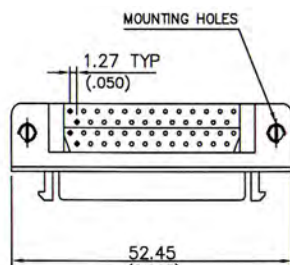
## SPECIFICATIONS

- Current Rating: 1.0 Ampere
- Contact Resistance: 35mΩ Max.
- Insulation Resistance: 500MΩ Min.
- Dielectric Wstanding: 250V AC
- Operating Temperature: -55°C to +105°C

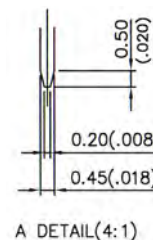
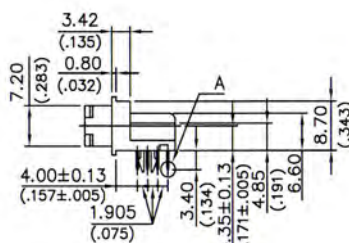
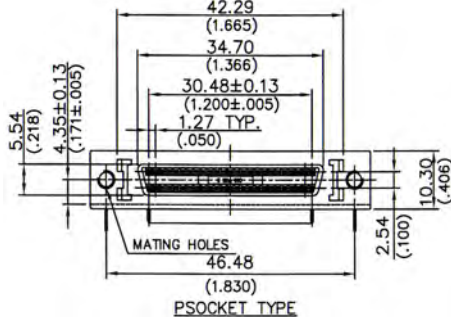
## MATERIALS

- Insulator: PBT, UL94V-0 Rated
- Contact: Phosphor Bronze
- \*RoHS & REACH compliant.

Recommended P.C.Board Hole Pattern (Connector Mating Side) **5246-68xxx**



Recommended P.C.Board Hole Pattern (Connector Mating Side) **5246-50xxx**



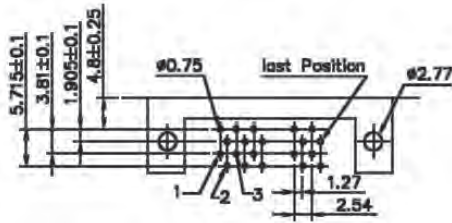
No. of Contacts	Dimensions(mm)	
	G	H
50	46.48	30.48

## ORDERING INFORMATION:

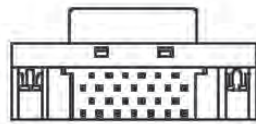
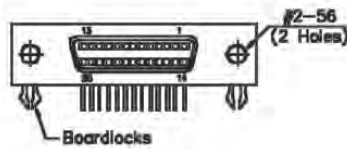
P/N 5 2 4 6 -  $\frac{x}{1} \frac{x}{2} \frac{N}{3} \frac{x}{4}$

- NO. OF CONTACTS:  
"50" HPDB50F (SCSI- II FEMALE)  
"68" HPDB68F (SCSI-III FEMALE)
- HOUSING TYPE:  
"N" METAL SHELL NICKEL PLATED
- SCREW TYPE OF MATING HOLES:  
"C" UNC#4-40  
"F" UNC#2-56
- BRACKET TYPE:  
"1" WITH LATCH BLOCKS W/O RAIL

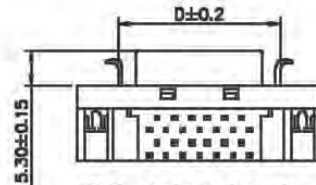
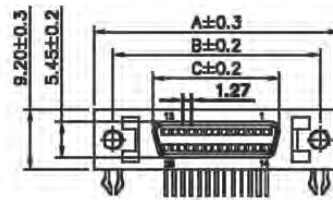
# HALF PITCH(1.27MM) D-SUB. FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout



Without Latch blocks



With latch blocks



No. of Contacts	Dimensions(mm)					
	A	B	C	D	E	F
26	37.19	31.26	19.45	24.65	34.20	21.59
50	52.43	46.49	34.70	39.90	46.40	30.48
68	63.86	57.92	46.13	51.32	57.90	41.91
100	84.18	78.23	66.45	⊗	78.10	62.23

## ORDERING INFORMATION:

P/N 5 1  $\frac{xx}{1}$  -  $\frac{xx}{2}$   $\frac{xx}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

- CONNECTOR TYPE:  
"39" MALE  
"40" FEMALE
- NO. OF CONTACTS:  
26, 50, 68, 100
- BOARD MOUNTING OPTION:  
"0" NONE  
"1" Ø3.05MM THROUGH HOLES  
"2" #4-40UNC THREADED HOLES
- FLANGE MOUNTING OPTION:  
"0" Ø3.05MM THROUGH HOLES  
"4" #4-40UNC  
"2" #2-56UNC
- BRACKET TYPE:  
"1" WITH LATCH BRACKETS  
"2" W/O LATCH BRACKETS

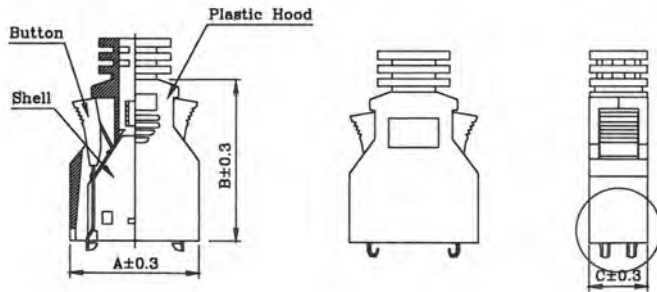
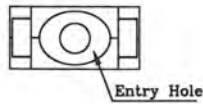
## SPECIFICATIONS

Current Rating: 1.0 Ampere  
Contact Resistance: 35mΩ Max.  
Insulation Resistance: 500MΩ Min.  
Dielectric Wisting: 250V AC  
Operating Temperature: -55°C to +105°C

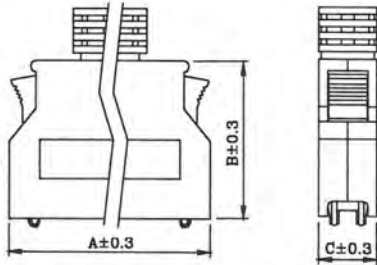
## MATERIALS

Insulator: PBT, UL94V-0 Rated  
Contact: Phosphor Bronze  
\*RoHS & REACH compliant.

# PLASTIC HOOD STRAIGHT EXIT WITH SPRING LATCHES FOR HALF PITCH CABLE FEMALE & MALE CONNECTORS



**14P**



**20P, 26P, 36P, 50P**

## MATERIALS

**Housing:** Plastic Thermoplastic PC

**Screw:** Steel, Nickel Plated Over Copper

**Latch:** Stainless Steel

**Latch Cover:** Plastic Thermoplastic P.B.T. UL94V-0

**Nuts:** Steel, Nickel Plated Over Copper

**Cable Clipper:** Steel, Nickel Plated Over Copper

**\*RoHS & REACH compliant.**

No. of Contacts	A	B	C
14	26.00	30.30	12.00
20	30.00	31.50	12.50
26	33.70	31.40	12.50
36	40.00	31.40	11.50
50	49.20	31.40	12.50

## ORDERING INFORMATION:

**P/N P H L  $\frac{xx}{1} - \frac{xx}{2} \frac{x}{3}$**

### 1. NO. OF CONTACTS:

14, 20, 26, 36, 50

### 2. ENTRY HOLE SIZES:

"4A" Ø4.5MM (14P)

"6" Ø6MM (14P, 20P)

"6A" Ø6.5MM (14P, 20P)

"7" Ø7MM (14P, 20P, 26P, 36P)

"7A" Ø7.5MM (14P, 20P)

"8" Ø8MM (14P, 20P, 26P, 36P)

"8A" Ø8.5MM (26P, 36P)

"9" Ø9MM (36P, 50P)

"10A" Ø10.5MM (50P)

### 3. HOOD COLOR:

"V" BEIGE

"B" BLACK



# PLASTIC HOOD STRAIGHT EXIT WITH JACK SCREWS FOR HALF PITCH CABLE FEMALE & MALE CONNECTORS

## MATERIALS

**Housing:** Plastic Thermoplastic PC

**Screw:** Steel, Nickel Plated Over Copper

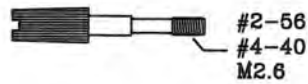
**Latch:** Stainless Steel

**Latch Cover:** Plastic Thermoplastic P.B.T. UL94V-0

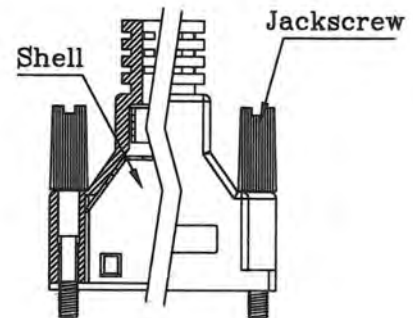
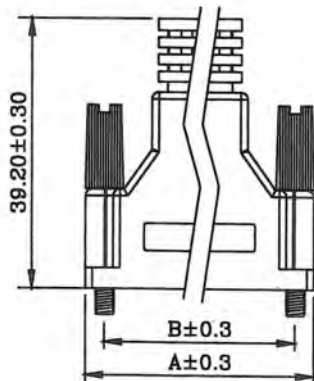
**Nuts:** Steel, Nickel Plated Over Copper

**Cable Clipper:** Steel, Nickel Plated Over Copper

\*RoHS & REACH compliant.



No. of Contacts	A	B	C
20	33.04	27.40	12.60
26	36.74	31.26	12.60
36	43.20	37.61	12.30



## ORDERING INFORMATION:

P/N PHS  $\frac{XX}{1} - \frac{XX}{2} \frac{XX}{3} \frac{XX}{4}$

### 1. NO. OF CONTACTS:

20, 26, 36

### 2. ENTRY HOLE SIZES:

"6" Ø6MM (20P)

"6A" Ø6.5MM (20P)

"7" Ø7MM (20P, 26P, 36P)

"7A" Ø7.5MM (20P)

"8" Ø8MM (26P, 36P)

"8A" Ø8.5MM (26P, 36P)

"9" Ø9MM (36P)

### 3. HOOD COLOR:

"V" BEIGE

"B" BLACK

### 4. THREADED FINISH:

"1" JACKSCREWS #2-56

"2" JACKSCREWS #4-40

"3" JACKSCREWS M2.6

# PLASTIC HOOD STRAIGHT EXIT WITH LATCHES & SCREWS FOR HALF PITCH CABLE FEMALE & MALE CONNECTORS

## MATERIALS

**Housing:** Plastic Thermoplastic PC

**Screw:** Steel, Nickel Plated Over Copper

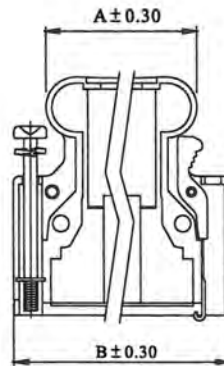
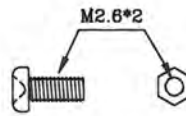
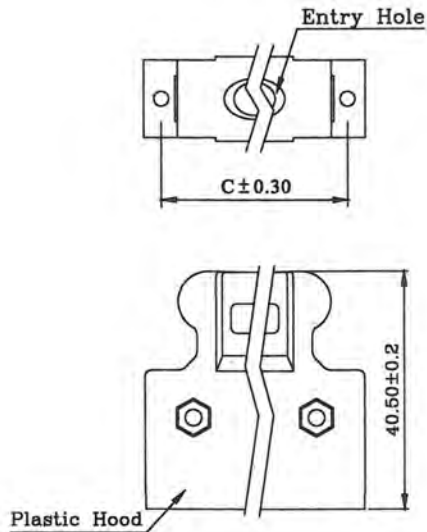
**Latch:** Stainless Steel

**Latch Cover:** Plastic Thermoplastic P.B.T. UL94V-0

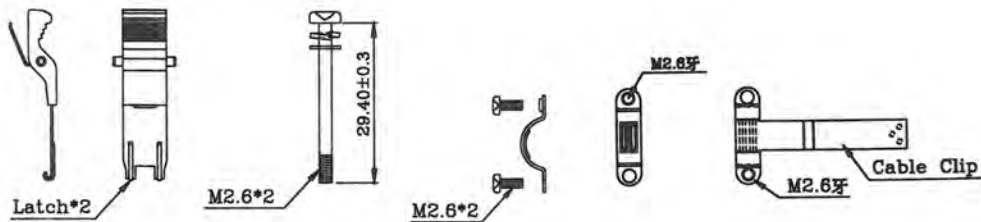
**Nuts:** Steel, Nickel Plated Over Copper

**Cable Clipper:** Steel, Nickel Plated Over Copper

**\*RoHS & REACH compliant.**



No. of Contacts	A	B	C
14	18.20	29.50	23.60
20	22.00	33.30	27.40
26	26.00	37.00	31.50
36	32.20	43.50	37.60
50	41.10	52.40	46.50



## ORDERING INFORMATION:

P/N P H L S  $\frac{XX}{1} - \frac{XX}{2} \frac{X}{3}$

1. NO. OF CONTACTS:  
14, 20, 26, 36, 50
2. ENTRY HOLE SIZES:  
"9" Ø9MM  
"11" Ø11MM  
"12" Ø12MM  
"15A" Ø15.5MM
3. HOOD COLOR:  
"V" BEIGE  
"B" BLACK

# METAL HOOD STRAIGHT EXIT WITH SPRING LATCHES FOR HALF PITCH CABLE FEMALE & MALE CONNECTORS

## MATERIALS

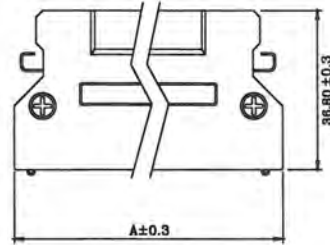
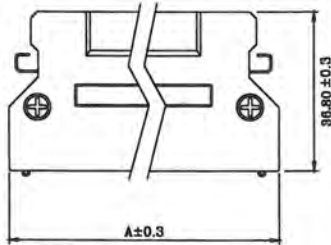
**Backshell:** Zinc Alloy, Nickel Plated Over Copper

**Spring Latches:** Stainless Steel

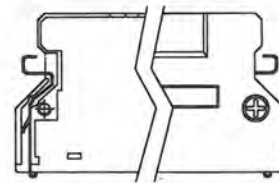
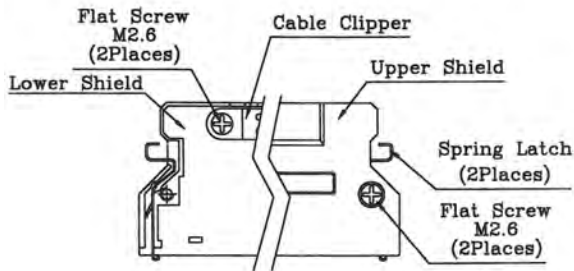
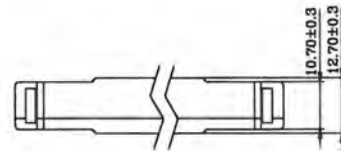
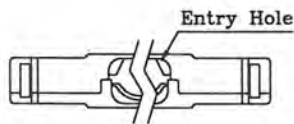
**Flat Screws:** Steel, Nickel Plated Over Copper

**Cable Clipper:** Steel, Nickel Plated Over Copper

**\*RoHS & REACH compliant.**



No. of Contacts	A
20	31.60
26	35.20
36	41.50
40	44.15
50	50.50
68	61.30



## CLOSE TYPE

(For Clip S.M.T. Connector With Terminator)

## ORDERING INFORMATION:

P/N M H L  $\frac{XX}{1} - \frac{XX}{2} \frac{X}{3}$

### 1. NO. OF CONTACTS:

20, 26, 36, 40, 50, 68

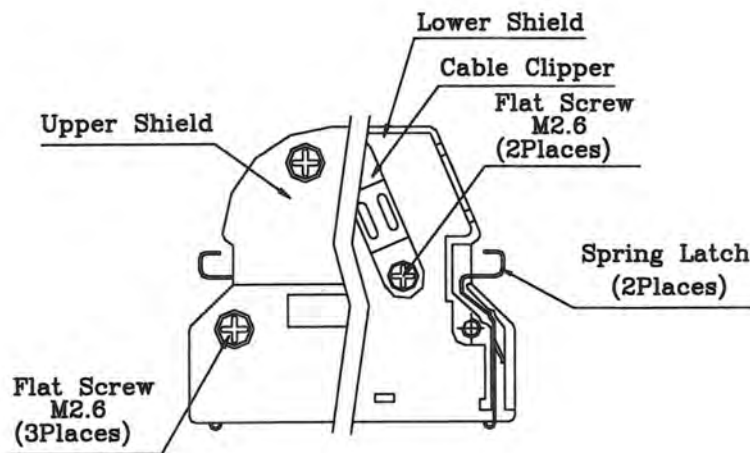
### 2. ENTRY HOLE SIZES:

- "0" CLOSE TYPE (50P, 68P)
- "7" Ø7MM (20P, 26P)
- "7A" Ø7.5MM (36P)
- "8" Ø8MM (20P, 26P)
- "9" Ø9MM (36P, 40P, 50P)
- "10A" Ø10.5MM (40P)
- "11" Ø11MM (50P, 68P)
- "14" Ø14MM (68P)

### 3. BACKSHELL FINISH:

- "N" NICKEL PLATED (STANDARD)
- "G" GOLD PLATED

# METAL HOOD ANGLED EXIT WITH SPRING LATCHES FOR HALF PITCH CABLE FEMALE & MALE CONNECTORS



## MATERIALS

**Backshell:** Zinc Alloy, Nickel Plated Over Copper

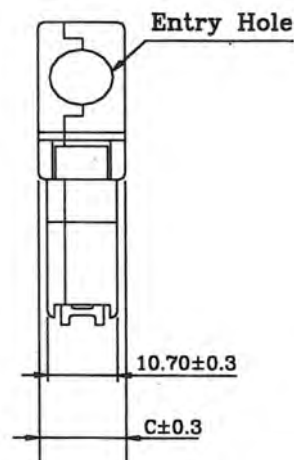
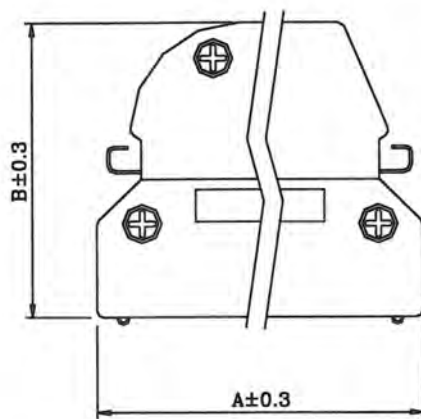
**Spring Latches:** Stainless Steel

**Flat Screws:** Steel, Nickel Plated Over Copper

**Cable Clipper:** Steel, Nickel Plated Over Copper

\*RoHS & REACH compliant.

No. of Contacts	A	B	C
26	35.40	48.60	13.20
36	41.50	46.30	13.00
50	50.50	46.25	13.30
68	61.30	46.30	15.60



## ORDERING INFORMATION:

P/N M H R  $\frac{X X}{1} - \frac{X X X}{2 3}$

### 1. NO. OF CONTACTS:

"26" 60°

"36" 67°

"50" 67°

"68" 70°

### 2. ENTRY HOLE SIZES:

"8" Ø8MM (26P)

"9" Ø9MM (26P, 36P, 50P)

"10" Ø10MM (36P)

"11" Ø11MM (50P, 68P)

"12" Ø12MM (68P)

### 3. BACKSHELL FINISH:

"N" NICKEL PLATED (STANDARD)

"G" GOLD PLATED

# METAL HOOD STRAIGHT EXIT WITH JACKSCREWS FOR HALF PITCH CABLE FEMALE & MALE CONNECTORS

No. of Contacts	A	B	C	D
40	46.60	38.70	11.70	13.00
50	53.30	38.60	11.70	13.60
68	64.10	38.30	11.90	13.90
100	84.20	38.20	12.10	17.50

## MATERIALS

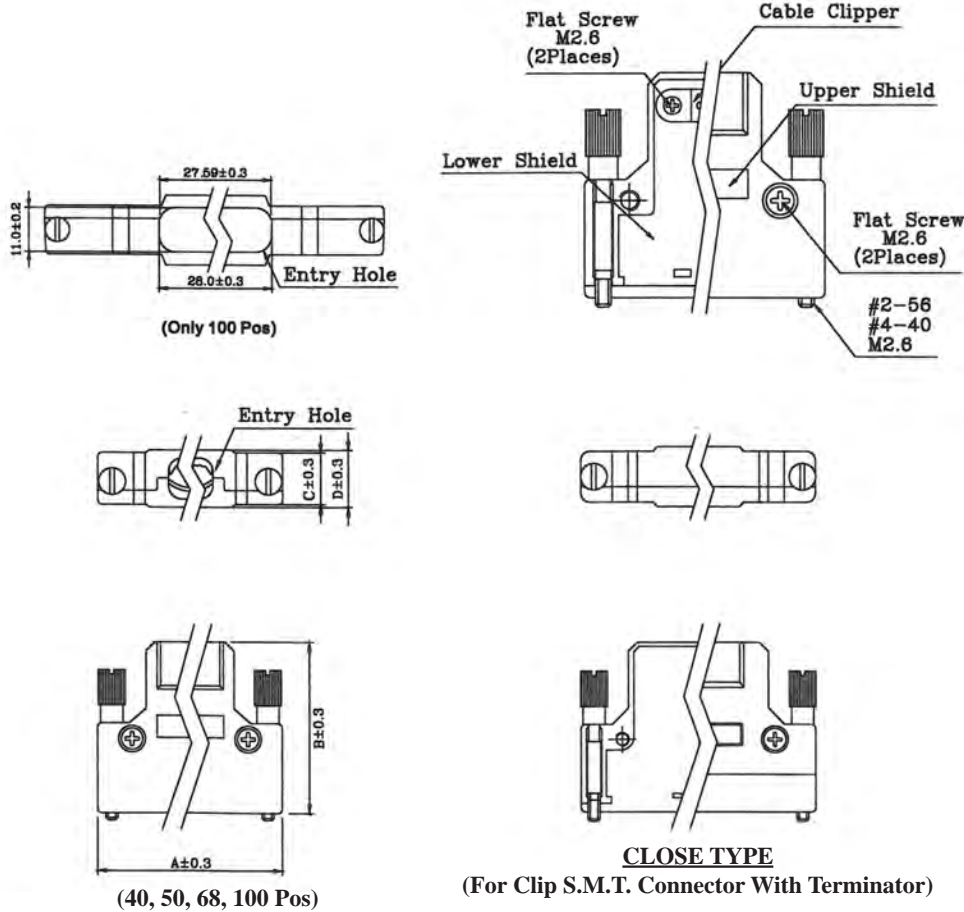
**Backshell:** Zinc Alloy, Nickel Plated Over Copper

**Spring Latches:** Stainless Steel

**Flat Screws:** Steel, Nickel Plated Over Copper

**Cable Clipper:** Steel, Nickel Plated Over Copper

\*RoHS & REACH compliant.



## ORDERING INFORMATION:

P/N M H S  $\frac{XX}{1} - \frac{XX}{2} \frac{XX}{3} \frac{XX}{4}$

### 1. NO. OF CONTACTS:

40, 50, 68, 100

### 2. ENTRY HOLE SIZES:

"0" CLOSE TYPE (50P, 68P)

"9" Ø9MM (40P, 50P)

"11" Ø11MM (50P, 68P, 100P)

"14" Ø14MM (68P, 100P)

"Y" ONLY 100 POS.

### 3. BACKSHELL FINISH:

"N" NICKEL PLATED (STANDARD)

"G" GOLD PLATED

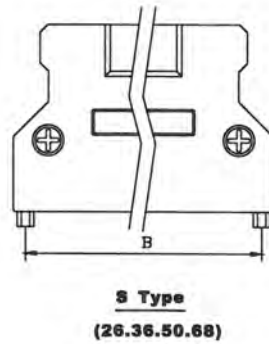
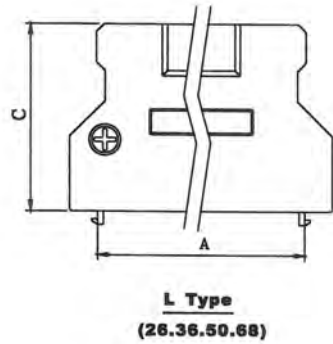
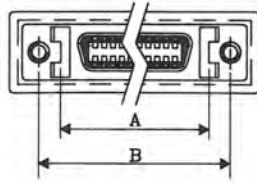
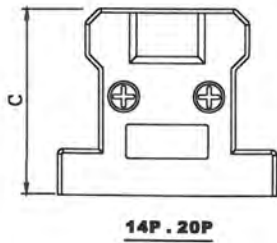
### 4. THREADED FINISH:

"1" JACKSCREWS #2-56

"2" JACKSCREWS #4-40

"3" JACKSCREWS M2.6

# METAL HOOD STRAIGHT EXIT WITH LATCHES & SCREWS FOR HALF PITCH CABLE FEMALE & MALE CONNECTORS



## MATERIALS

**Backshell:** Zinc Alloy, Nickel Plated Over Copper

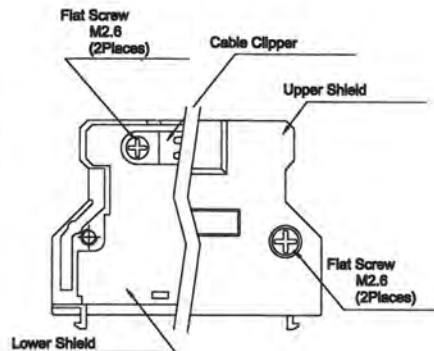
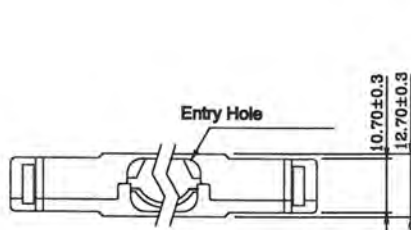
**Spring Latches:** Stainless Steel

**Flat Screws:** Steel, Nickel Plated Over Copper

**Cable Clipper:** Steel, Nickel Plated Over Copper

\*RoHS & REACH compliant.

No. of Contacts	A	B	C
14	17.08	23.64	26.00
20	20.60	27.45	27.50
26	24.64	31.26	36.70
36	31.05	37.61	36.70
50	39.88	46.50	36.70
68	51.32	57.90	36.70



## ORDERING INFORMATION:

P/N M H E  $\frac{x}{1} \frac{x}{2} \frac{x}{3} - \frac{x}{4} \frac{x}{5} \frac{N}{4} \frac{x}{5}$

### 1. BRACKET TYPE:

- "L" LATCH BRACKET
- "S" SCREW BRACKET

### 2. NO. OF CONTACTS:

- 14, 20, 26, 36, 50, 68

### 3. ENTRY HOLE SIZES:

- "7" Ø7MM (14P, 20P)
- "7A" Ø7.5MM (26P, 36P)
- "9" Ø9MM (26P, 36P, 50P)
- "11" Ø11MM (50P, 68P)
- "12" Ø12MM
- "14" Ø14MM
- "15" Ø15.5MM

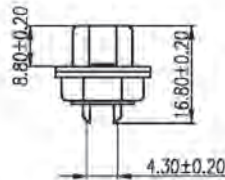
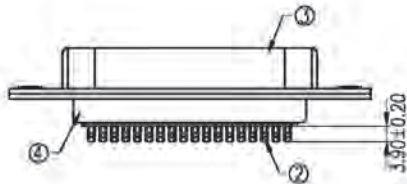
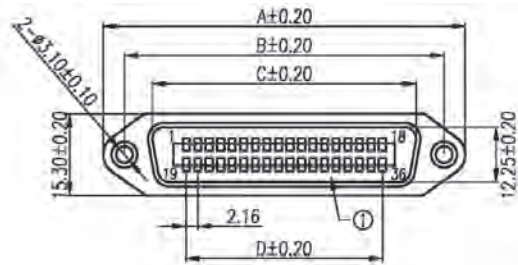
### 4. BACKSHELL FINISH:

- "N" NICKEL PLATED (STANDARD)

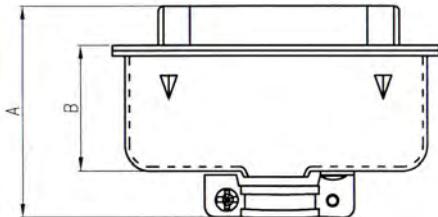
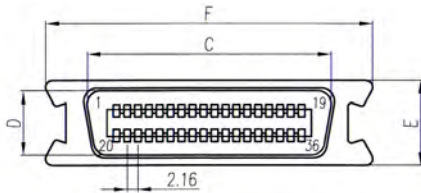
### 5. THREADED FINISH:

- (ONLY FOR SCREW BRACKET)
- "1" JACKSCREWS #2-56
- "2" JACKSCREWS #4-40
- "3" JACKSCREWS M2.6

## 57 SERIES CENTRONIC MALE CONNECTOR SOLDER TYPE



**5701**



**5703**

### SPECIFICATIONS

**Current Rating:** 1.0 Ampere

**Contact Resistance:** 30mΩ Max.

**Insulation Resistance:** 1000MΩ Min.

**Dielectric Voltage:** 500V AC at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

**\*RoHS & REACH compliant.**

**5701**

No. of Contacts	Dimensions(mm)			
	A±0.20	B±0.20	C±0.20	D±0.20
14	43.90	36.00	25.50	12.96
24	54.70	46.80	36.30	23.76
36	67.70	59.70	49.30	36.72
50	82.80	74.90	64.60	51.84

**5703**

No. of Contacts	Dimensions(mm)					
	A±0.20	B±0.20	C±0.20	D±0.20	E±0.20	F±0.20
14	41.40	21.20	25.60	12.25	15.20	38.80
24	41.40	21.20	36.47	12.25	15.20	49.30
36	40.50	22.60	49.35	12.25	15.20	62.00
50	45.50	24.80	64.47	12.25	15.20	77.40

### ORDERING INFORMATION:

P/N 57  $\frac{XX}{1}$  -  $\frac{XX}{2}$

1. CONNECTOR TYPE:

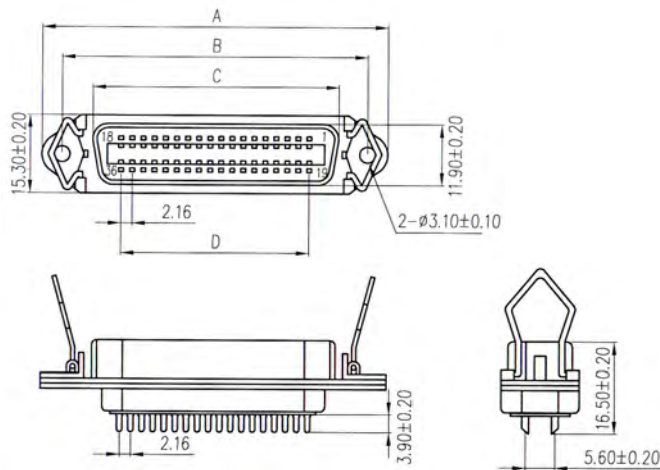
"01" MALE W/O METAL COVER

"03" MALE WITH METAL COVER

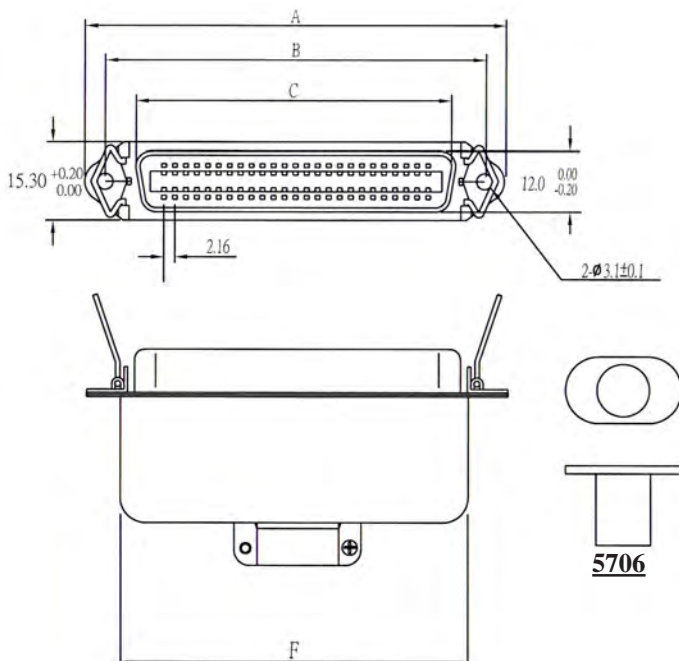
2. NO. OF CONTACTS:

14, 24, 36, 50

## 57 SERIES CENTRONIC FEMALE CONNECTOR SOLDER TYPE



**5702, 5704**



**5706**

### SPECIFICATIONS

**Current Rating:** 1.0 Ampere

**Contact Resistance:** 30mΩ Max.

**Insulation Resistance:** 1000MΩ Min.

**Dielectric Voltage:** 500V AC at 1 Minute

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Brass

**\*RoHS & REACH compliant.**

### 5702, 5704

No. of Contacts	Dimensions(mm)			
	A±0.20	B±0.20	C±0.20	D±0.20
14	43.90	35.99	25.20	12.96
24	54.71	46.79	36.00	23.76
36	67.69	59.74	48.90	36.72
50	82.78	74.85	64.00	51.84

### 5706

No. of Contacts	Dimensions(mm)			
	A±0.20	B±0.20	C±0.20	F±0.20
14	43.92	35.99	25.20	29.00
24	54.71	46.79	36.00	39.80
36	67.69	59.74	48.90	53.00
50	82.78	74.85	64.00	68.10

### ORDERING INFORMATION:

P/N 57  $\frac{XX}{1}$  -  $\frac{XX}{2}$

1. CONNECTOR TYPE:

"02" FEMALE WITHOUT LATCHES

"04" FEMALE WITH 2 LATCHES

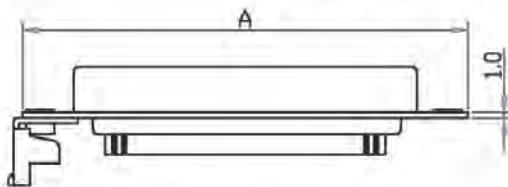
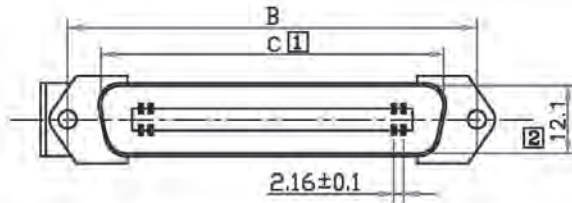
"06" FEMALE WITH METAL COVER

2. NO. OF CONTACTS:

14, 24, 36, 50

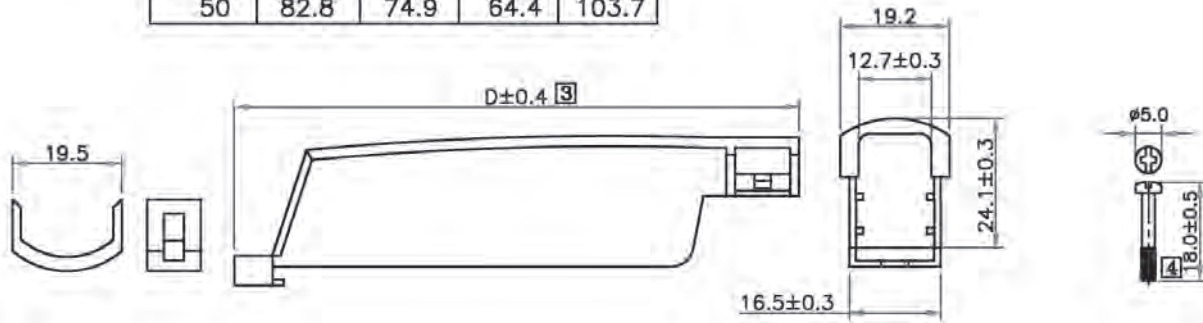


## 57 SERIES CENTRONIC CONNECTOR RIGHT ANGLE SOLDER ASSEMBLY TYPE WITH PLASTIC COVER



Dimensional

Circuits	A	B	C	D
36	67.7	59.7	49.3	90.1
50	82.8	74.9	64.4	103.7



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000MΩ Min.

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Shell:** Steel, Zinc Plated, Tin Plated or Nickel Plated Steel

**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0

**Pin Contact:** Phosphor Bronze or Brass, Gold Plated

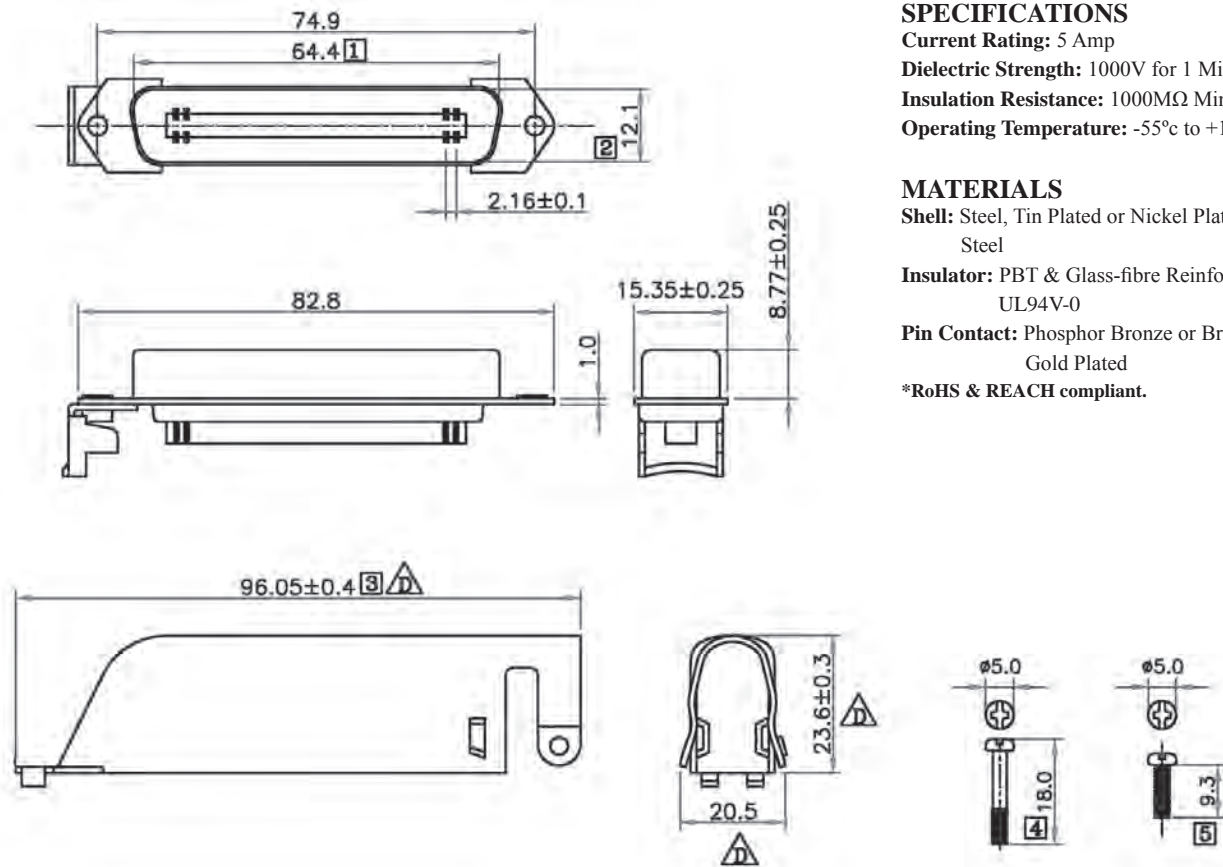
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N 5709 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{P}{3}$

1. CONNECTOR TYPE:  
"09" MALE R/A SOLDER TYPE
2. NO. OF CONTACTS:  
36, 50
3. COVER TYPE:  
"P" R/A PLASTIC COVER

## 57 SERIES CENTRONIC CONNECTOR RIGHT ANGLE SOLDER ASSEMBLY TYPE WITH METAL COVER



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000MΩ Min.

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Shell:** Steel, Tin Plated or Nickel Plated Steel

**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0

**Pin Contact:** Phosphor Bronze or Brass, Gold Plated

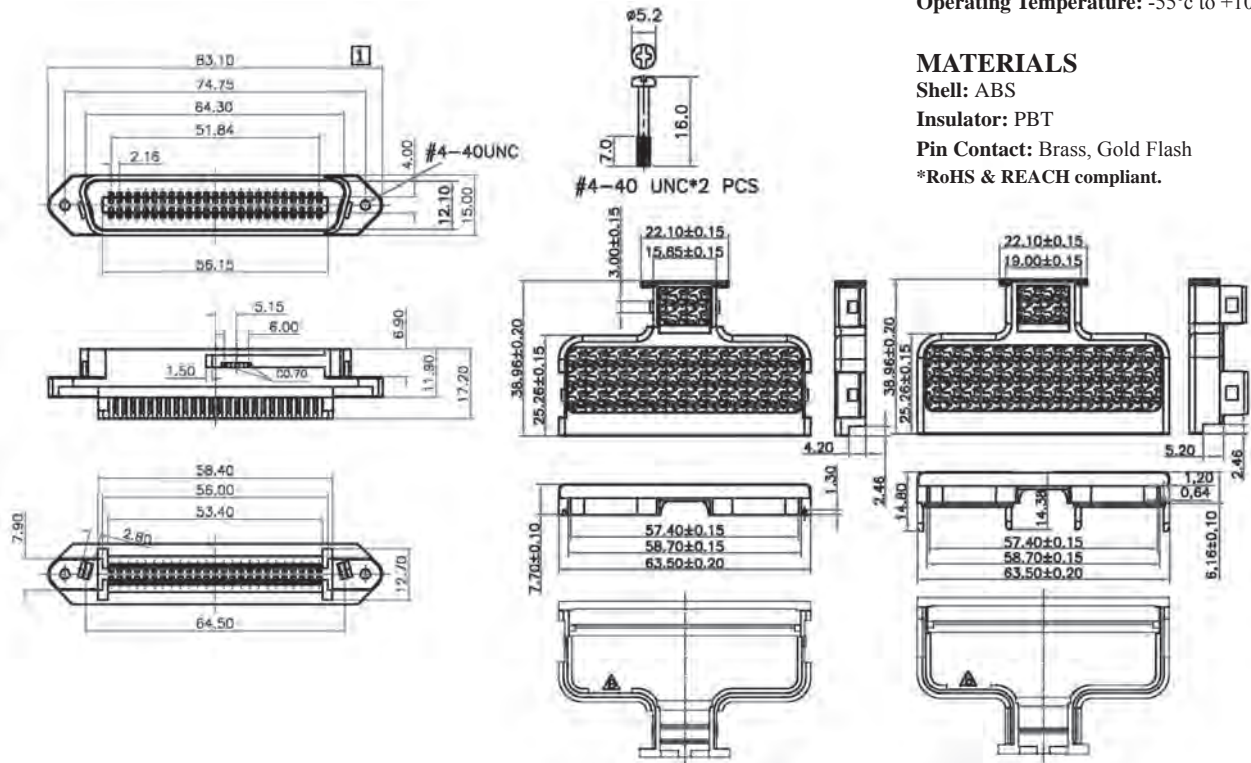
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N 5 7 09 - 50 M

1. CONNECTOR TYPE:  
"09" MALE R/A SOLDER TYPE
2. NO. OF CONTACTS:  
50
3. COVER COLOR:  
"M" R/A METAL COVER

# 57 SERIES CENTRONIC MALE CONNECTOR ALL PLASTIC SOLDER TYPE



## SPECIFICATIONS

**Current Rating:** 5 Amp  
**Dielectric Strength:** 1000V for 1 Min.  
**Insulation Resistance:** 1000MΩ Min.  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

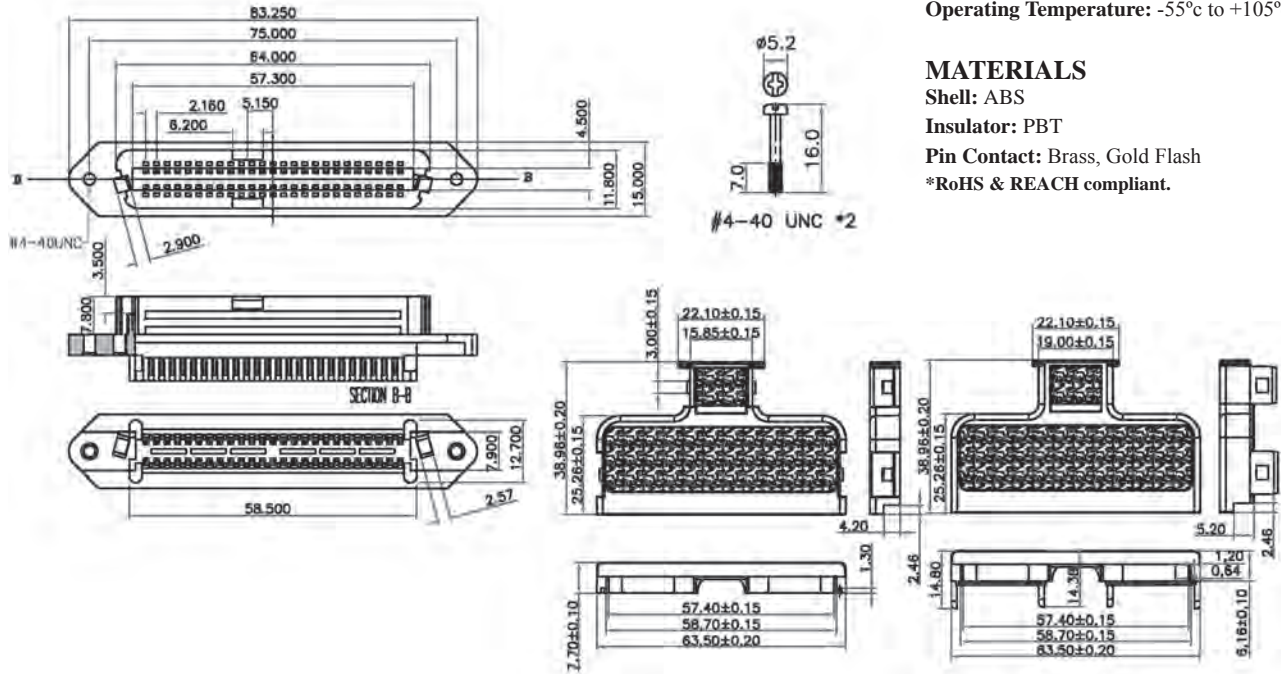
**Shell:** ABS  
**Insulator:** PBT  
**Pin Contact:** Brass, Gold Flash  
 \*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 57  $\frac{1}{1}$  5 - 50  $\frac{A}{2}$   $\frac{3}{3}$

1. CONNECTOR TYPE:  
"15" MALE STRAIGHT TYPE
2. NO. OF CONTACTS:  
50
3. INSULATOR COLOR:  
"A" GRAY

# 57 SERIES CENTRONIC FEMALE CONNECTOR ALL PLASTIC SOLDER TYPE



## SPECIFICATIONS

**Current Rating:** 5 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000MΩ Min.

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Shell:** ABS

**Insulator:** PBT

**Pin Contact:** Brass, Gold Flash

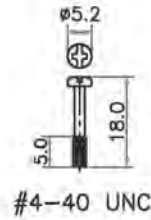
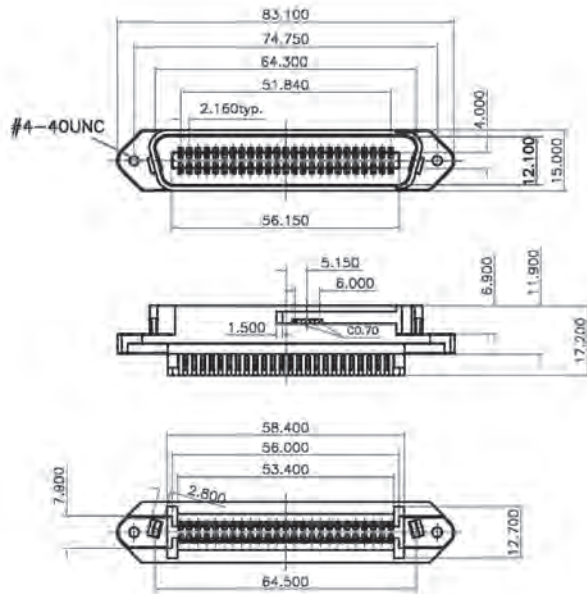
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 57  $\frac{16}{1}$  -  $\frac{50A}{23}$

1. CONNECTOR TYPE:  
"16" FEMALE STRAIGHT TYPE
2. NO. OF CONTACTS:  
50
3. INSULATOR COLOR:  
"A" GRAY

## 57 SERIES CENTRONIC MALE CONNECTOR R/A ALL PLASTIC SOLDER TYPE



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000MΩ Min.

**Operating Temperature:** -55°C to +105°C

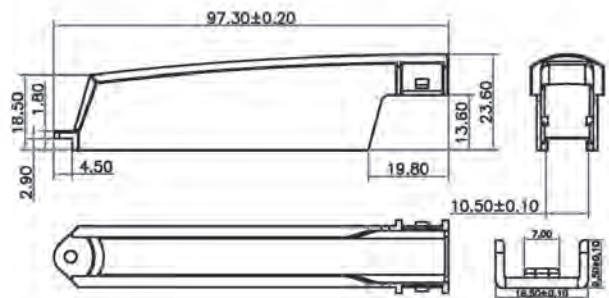
### MATERIALS

**Shell:** ABS

**Insulator:** PBT

**Pin Contact:** Brass, Gold Flash

\*RoHS & REACH compliant.

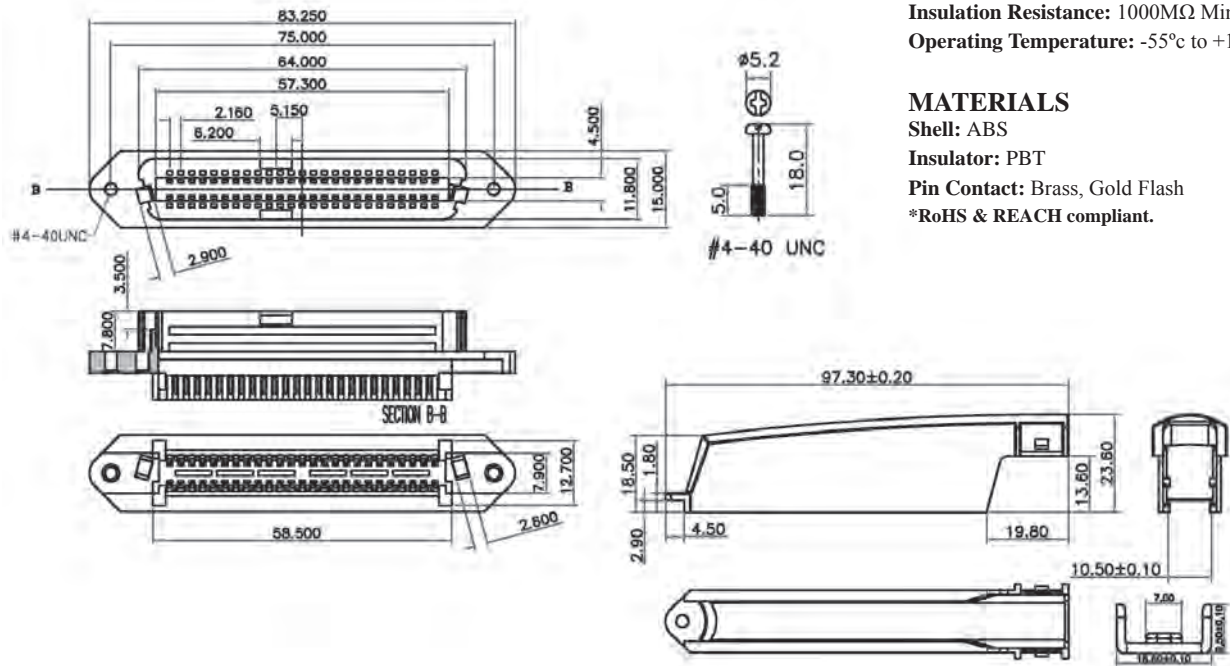


### ORDERING INFORMATION:

P/N 57  $\frac{27}{1}$  -  $\frac{50}{2}$  A  $\frac{3}{3}$

1. CONNECTOR TYPE:  
"27" MALE RIGHT ANGLE TYPE
2. NO. OF CONTACTS:  
50
3. INSULATOR COLOR:  
"A" GRAY

## 57 SERIES CENTRONIC FEMALE CONNECTOR R/A ALL PLASTIC SOLDER TYPE



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000MΩ Min.

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Shell:** ABS

**Insulator:** PBT

**Pin Contact:** Brass, Gold Flash

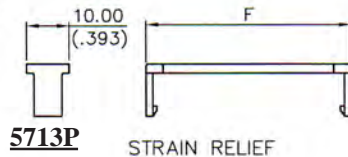
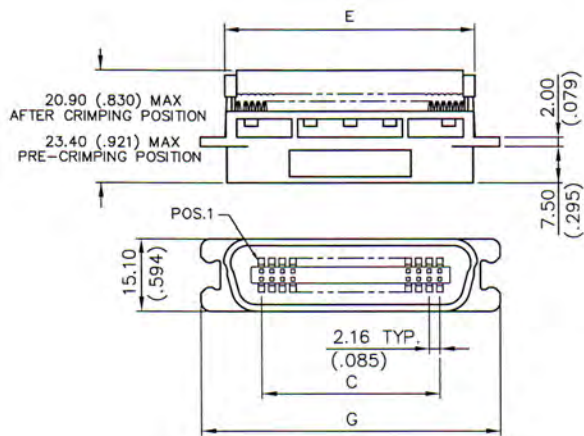
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N 57  $\frac{28}{1}$  -  $\frac{50}{2}$   $\frac{A}{3}$

1. CONNECTOR TYPE:  
"28" FEMALE RIGHT ANGLE TYPE
2. NO. OF CONTACTS:  
50
3. INSULATOR COLOR:  
"A" GRAY

## 57 SERIES CENTRONIC MALE CONNECTOR I.D.C. TYPE



**5713P**

STRAIN RELIEF

### SPECIFICATIONS

**Current Rating:** 1.0 Ampere

**Contact Resistance:** 30mΩ Max.

**Insulation Resistance:** 1000MΩ Min.

**Dielectric Voltage:** 500V AC at 1 Minute

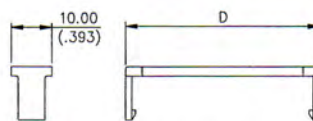
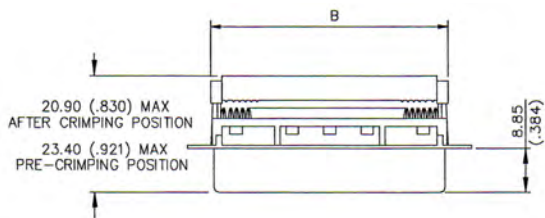
**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

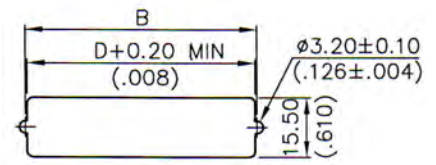
**Contact:** Brass

**\*RoHS & REACH compliant.**

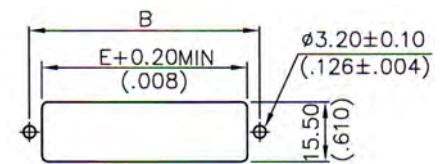


**5713M**

STRAIN RELIEF



RECOMMEND REAR MOUNT PANEL



RECOMMEND FRONT MOUNT PANEL

### ORDERING INFORMATION:

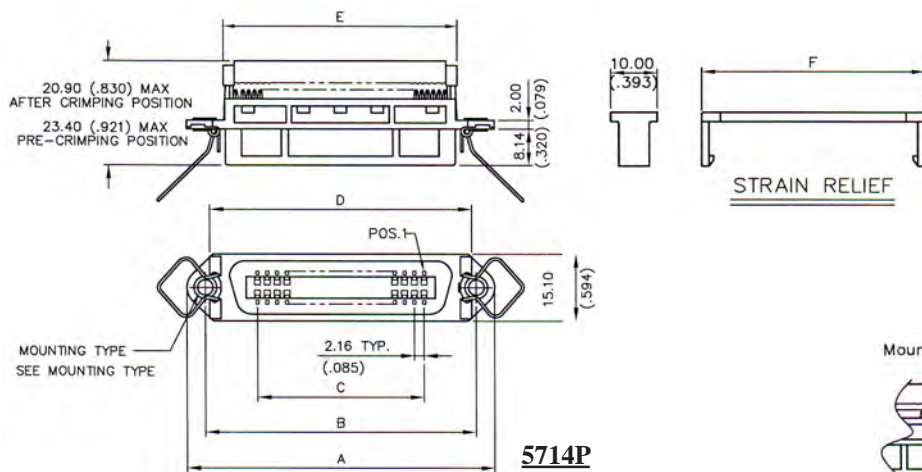
P/N 57  $\frac{13}{1}$   $\frac{x}{2}$  -  $\frac{xx}{3}$   $\frac{N}{4}$   $\frac{x}{5}$

1. CONNECTOR TYPE:  
"13" MALE
2. HOUSING TYPE:  
"P" ALL PLASTIC TYPE  
"M" WITH FRONT METAL SHELL
3. NO. OF CONTACTS:  
36, 50
4. MOUNTING TYPE:  
"N" BAIL MOUNTING TYPE

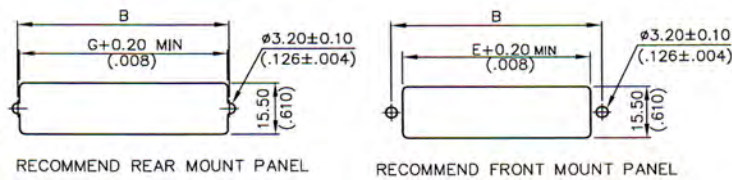
5. INSULATOR COLOR:  
" " BLUE  
"B" BLACK

NOTE: MALE IDC RIBBON CONNECTOR  
ALWAYS WITHOUT MOUNTING  
HOLES (BAIL MOUNTING TYPE)

## 57 SERIES CENTRONIC FEMALE CONNECTOR I.D.C. TYPE

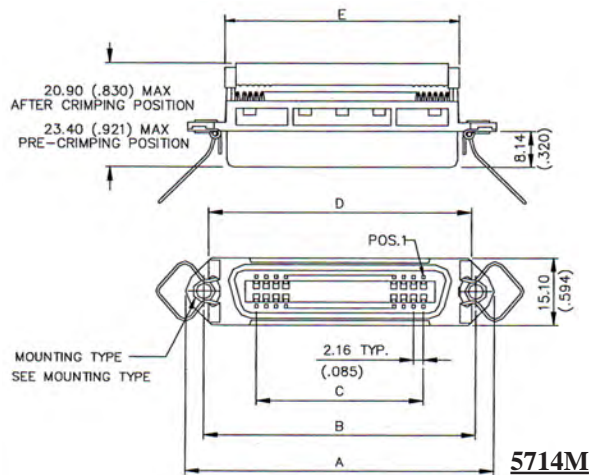


**5714P**



RECOMMEND REAR MOUNT PANEL

RECOMMEND FRONT MOUNT PANEL



**5714M**

### SPECIFICATIONS

**Current Rating:** 1.0 Ampere

**Contact Resistance:** 30mΩ Max.

**Insulation Resistance:** 1000MΩ Min.

**Dielectric Voltage:** 500V AC at 1 Minute

**Operating Temperature:** -55°C to +105°C

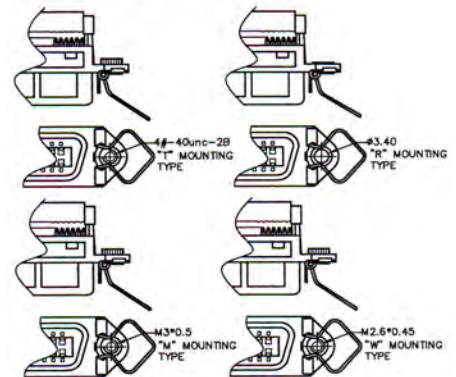
### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

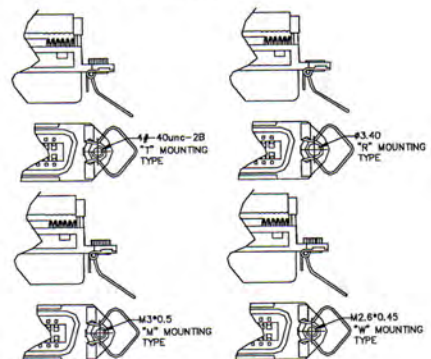
**Contact:** Brass

\*RoHS & REACH compliant.

### Mounting Types (Option) **5714P**



### Mounting Types (Option) **5714M**



## ORDERING INFORMATION:

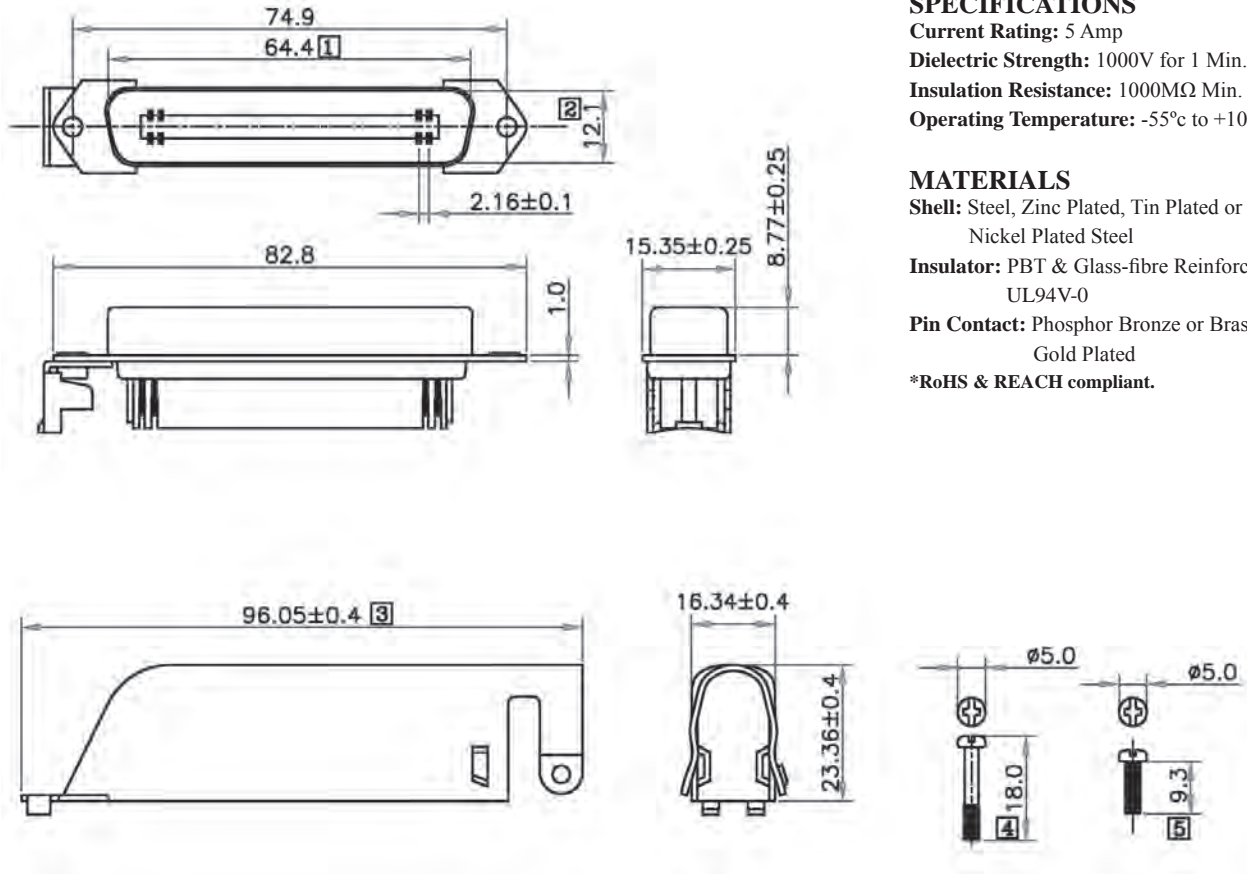
P/N 57  $\frac{14}{1}$   $\frac{x}{2}$  -  $\frac{xxxx}{345}$

1. CONNECTOR TYPE:  
"14" FEMALE
2. HOUSING TYPE:  
"P" ALL PLASTIC TYPE  
"M" WITH FRONT METAL SHELL
3. NO. OF CONTACTS:  
36, 50
4. MOUNTING TYPE:  
"R" WITH Ø3.40 RIVET THROUGH HOLES  
"T" WITH #4-40UNC THREADED INSERT  
"M" WITH M3\*0.5 THREADED HOLES  
"W" WITH M2.6\*0.45 THREADED HOLES

5. INSULATOR COLOR:  
" " BLUE  
"B" BLACK



## 57 SERIES CENTRONIC MALE CONNECTOR RIGHT ANGLE IDC ASSEMBLY TYPE WITH METAL COVER



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000MΩ Min.

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Shell:** Steel, Zinc Plated, Tin Plated or Nickel Plated Steel

**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0

**Pin Contact:** Phosphor Bronze or Brass, Gold Plated

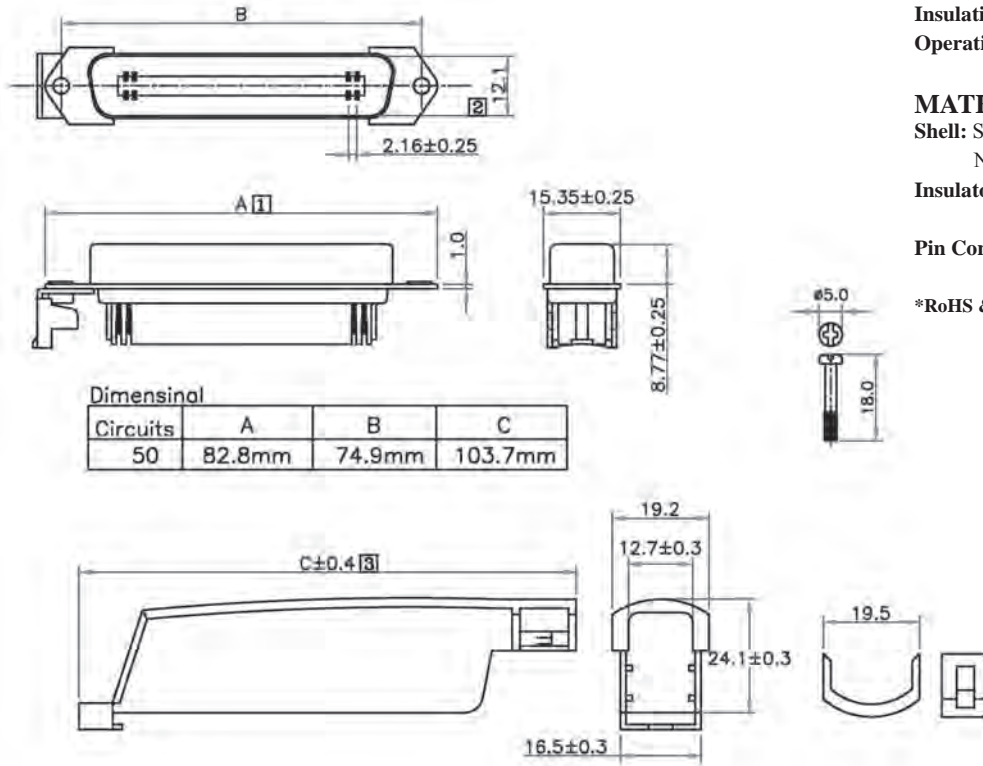
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N 57  $\frac{07}{1}$  -  $\frac{50}{2}$   $\frac{M}{3}$

1. CONNECTOR TYPE:  
"07" MALE R/A IDC TYPE
2. NO. OF CONTACTS:  
50
3. COVER COLOR:  
"M" R/A METAL COVER

## 57 SERIES CENTRONIC MALE CONNECTOR RIGHT ANGLE IDC ASSEMBLY TYPE WITH PLASTIC COVER



Dimensional

Circuits	A	B	C
50	82.8mm	74.9mm	103.7mm

### SPECIFICATIONS

**Current Rating:** 5 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000MΩ Min.

**Operating Temperature:** -55°C to +105°C

### MATERIALS

**Shell:** Steel, Zinc Plated, Tin Plated or Nickel Plated Steel

**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0

**Pin Contact:** Phosphor Bronze or Brass, Gold Plated

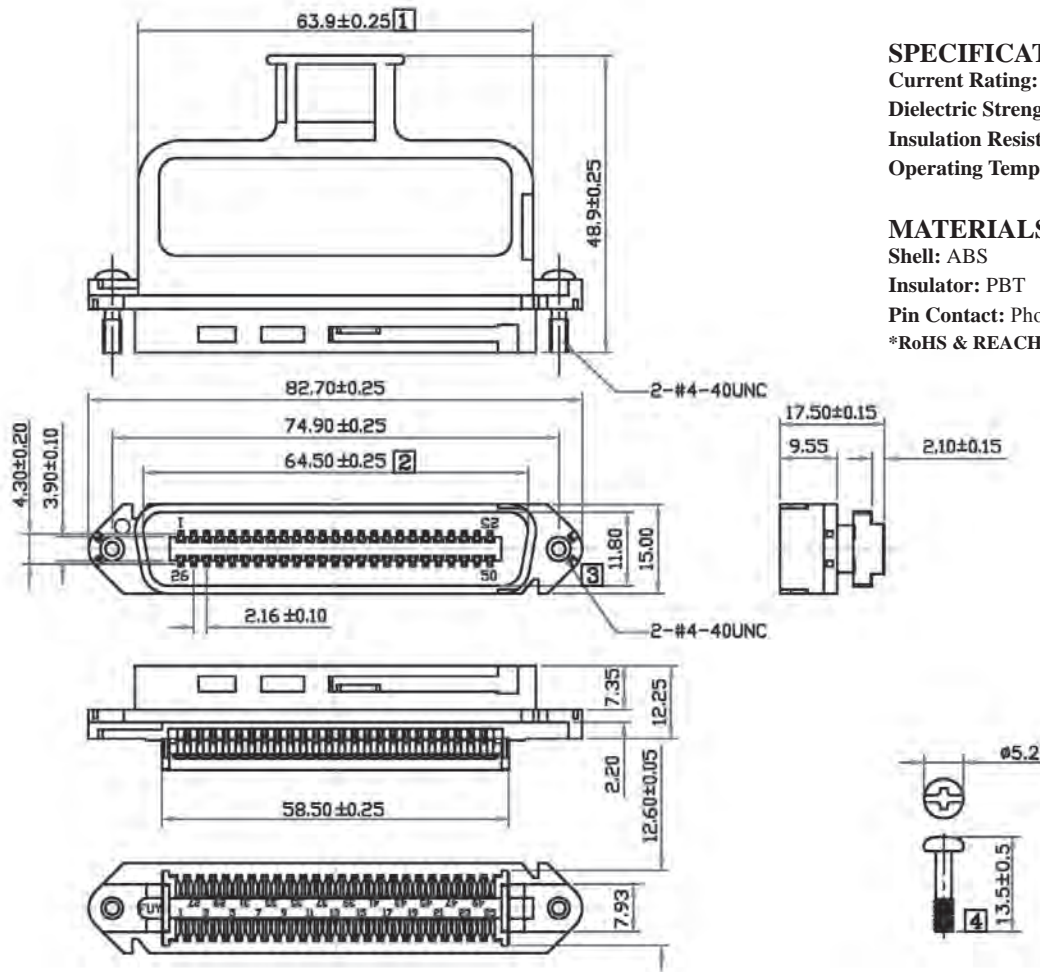
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N 5707-50P  
1 2 3

- CONNECTOR TYPE:  
"07" MALE R/A IDC TYPE
- NO. OF CONTACTS:  
50
- COVER COLOR:  
"P" R/A PLASTIC COVER

## 57 SERIES CENTRONIC MALE CONNECTOR ALL PLASTIC IDC TYPE



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000M $\Omega$  Min.

**Operating Temperature:** -55 $^{\circ}$ C to +105 $^{\circ}$ C

### MATERIALS

**Shell:** ABS

**Insulator:** PBT

**Pin Contact:** Phosphor Bronze, Gold Flash

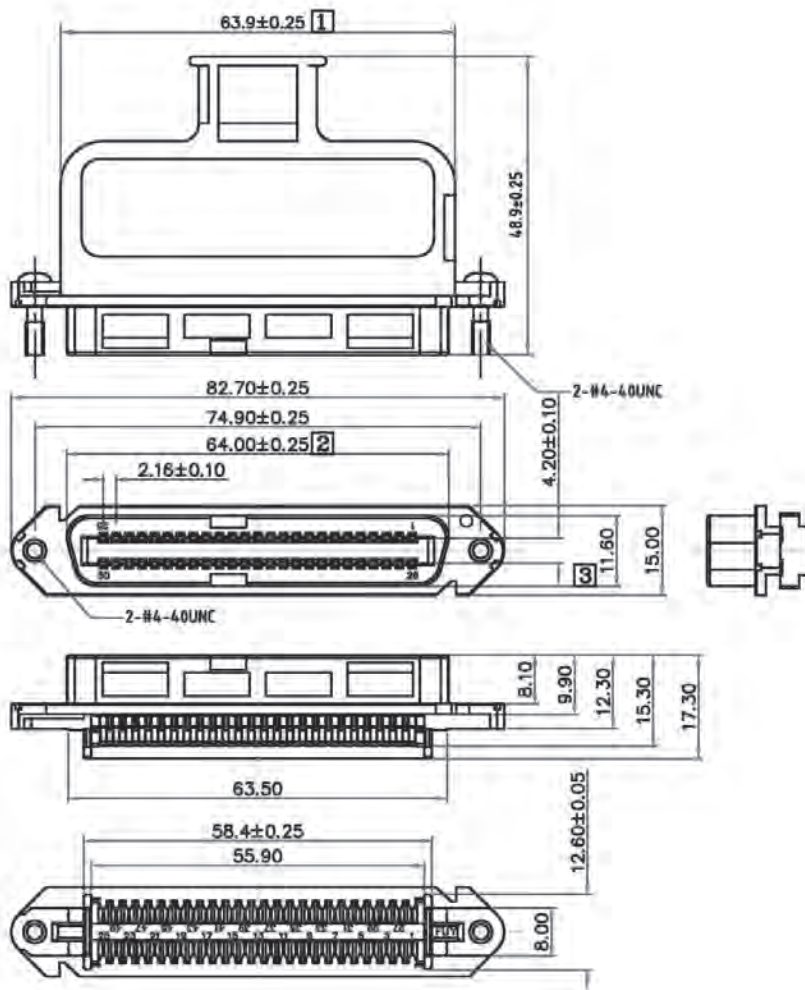
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N 57  $\frac{11}{1}$  -  $\frac{50}{2}$   $\frac{B}{3}$

- CONNECTOR TYPE:  
"11" MALE ALL PLASTIC IDC TYPE
- NO. OF CONTACTS:  
50
- INSULATOR COLOR:  
"B" BLACK

## 57 SERIES CENTRONIC FEMALE CONNECTOR ALL PLASTIC IDC TYPE



### SPECIFICATIONS

**Current Rating:** 5 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000M $\Omega$  Min.

**Operating Temperature:** -55 $^{\circ}$ C to +105 $^{\circ}$ C

### MATERIALS

**Shell:** ABS

**Insulator:** PBT

**Pin Contact:** Phosphor Bronze, Gold Flash

\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N 57  $\frac{12}{1}$  -  $\frac{50}{2}$   $\frac{B}{3}$

- CONNECTOR TYPE:  
"12" FEMALE ALL PLASTIC IDC TYPE
- NO. OF CONTACTS:  
50
- INSULATOR COLOR:  
"B" BLACK

## 57 SERIES CENTRONIC MALE CONNECTOR R/A ALL PLASTIC IDC TYPE

### SPECIFICATIONS

**Current Rating:** 5 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000M $\Omega$  Min.

**Operating Temperature:** -55 $^{\circ}$ c to +105 $^{\circ}$ c

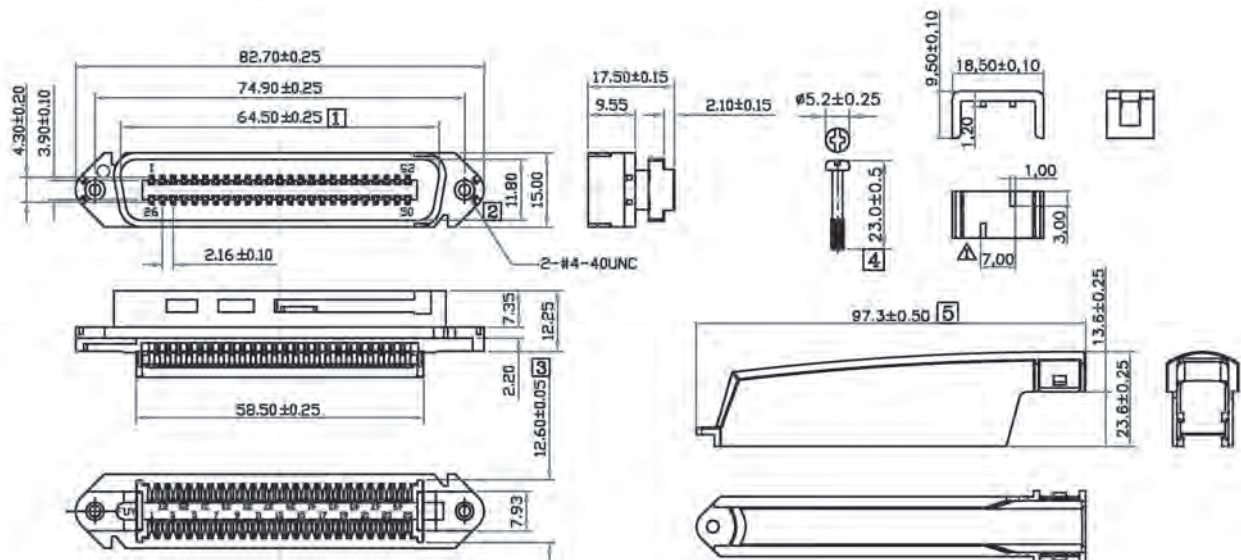
### MATERIALS

**Shell:** ABS

**Insulator:** PBT, UL94V-0

**Pin Contact:** Phosphor Bronze, Gold Flash

\*RoHS & REACH compliant.



### ORDERING INFORMATION:

P/N 57  $\frac{25}{1}$  -  $\frac{50}{2}$   $\frac{B}{3}$

1. CONNECTOR TYPE:  
"25" MALE R/A ALL PLASTIC IDC TYPE
2. NO. OF CONTACTS:  
50
3. INSULATOR COLOR:  
"B" BLACK

## 57 SERIES CENTRONIC FEMALE CONNECTOR R/A ALL PLASTIC IDC TYPE

### SPECIFICATIONS

**Current Rating:** 5 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000MΩ Min.

**Operating Temperature:** -55°C to +105°C

### MATERIALS

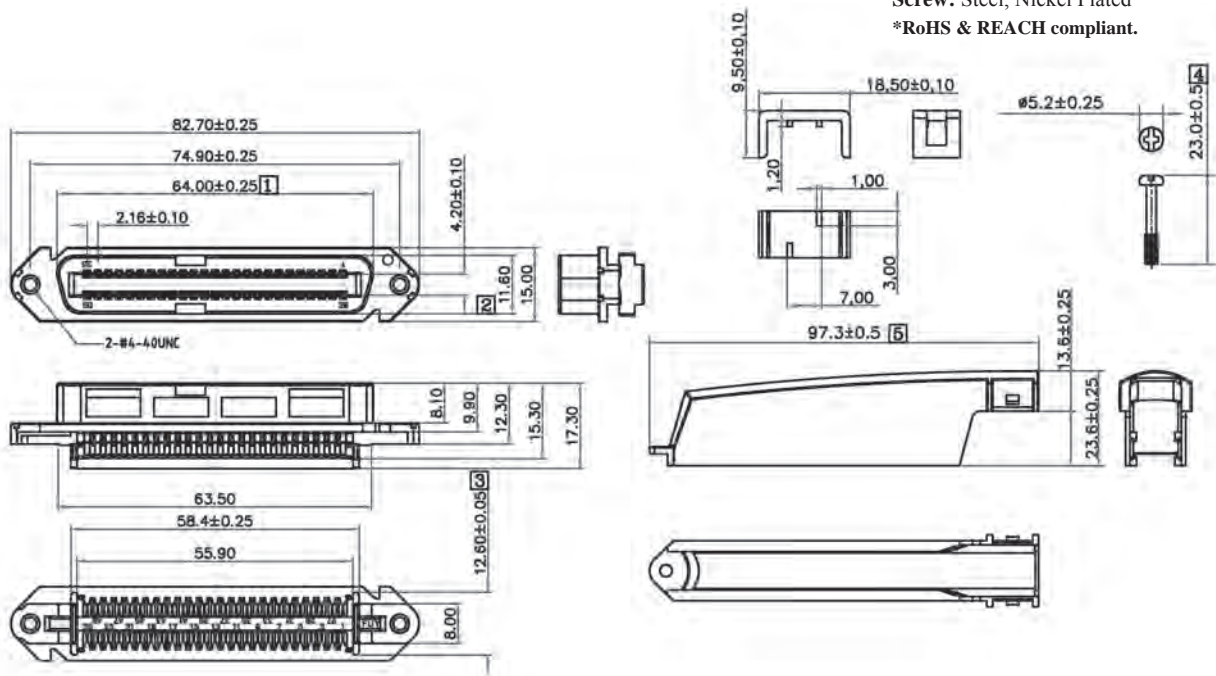
**Shell:** ABS

**Insulator:** PBT

**Pin Contact:** Phosphor Bronze, Gold Flash

**Screw:** Steel, Nickel Plated

\*RoHS & REACH compliant.

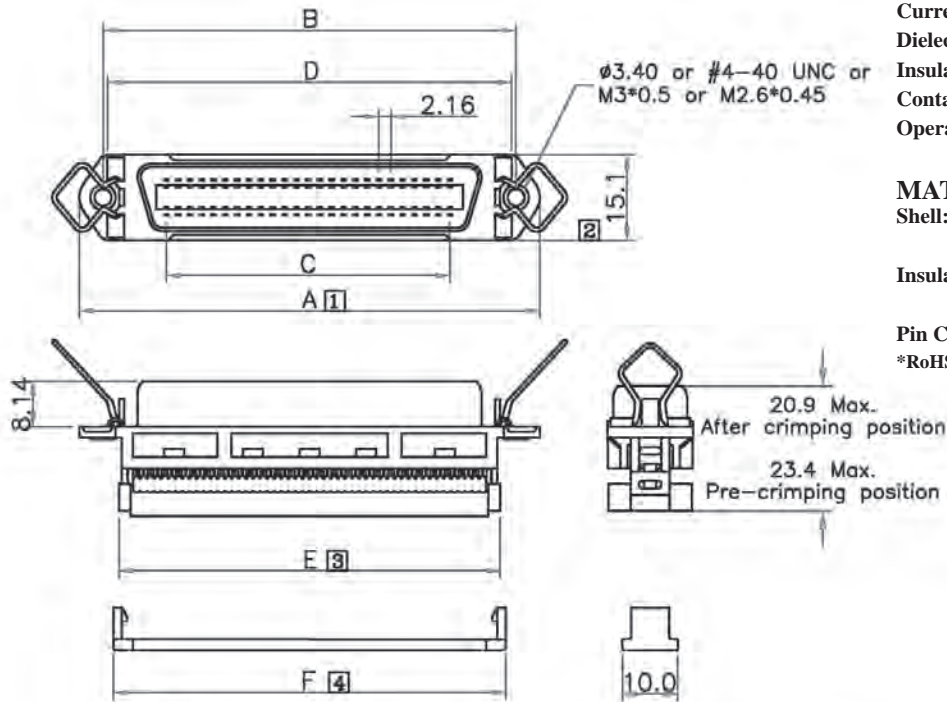


### ORDERING INFORMATION:

P/N 57  $\frac{26}{1}$  -  $\frac{50}{2}$   $\frac{B}{3}$

1. CONNECTOR TYPE:  
"26" FEMALE R/A ALL PLASTIC IDC TYPE
2. NO. OF CONTACTS:  
50
3. INSULATOR COLOR:  
"B" BLACK

# 57 SERIES CENTRONIC FEMALE CONNECTOR IDC TYPE WITH METAL SHELL FOR FLAT CABLE ASSEMBLY



**Position**

	A $\pm 0.25$	B $\pm 0.13$	C $\pm 0.13$	D $\pm 0.20$	E $\pm 0.25$	F $\pm 0.25$	G $\pm 0.25$
24	54.70	46.78	23.76	45.68	35.50	37.50	45.88
36	67.80	59.74	36.72	58.65	51.50	53.75	58.85
50	82.80	74.85	51.84	73.75	68.50	70.90	73.95

## SPECIFICATIONS

**Current Rating:** 1 Amp  
**Dielectric Strength:** AC 500V Min.  
**Insulation Resistance:** 1000M $\Omega$  Min.  
**Contact Resistance:** 25m $\Omega$  Max. Mated  
**Operating Temperature:** -25 $^{\circ}$ C to +85 $^{\circ}$ C

## MATERIALS

**Shell:** Steel, Zinc Plated, Tin Plated or Nickel Plated Steel  
**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0  
**Pin Contact:** Phosphor Bronze or Brass  
**\*RoHS & REACH compliant.**

## ORDERING INFORMATION:

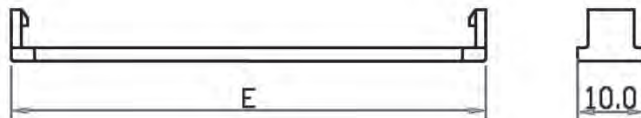
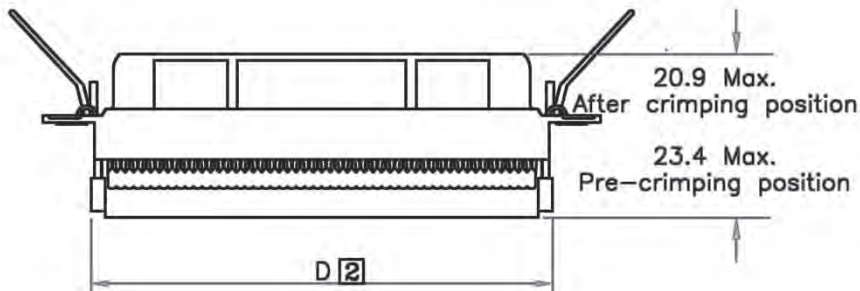
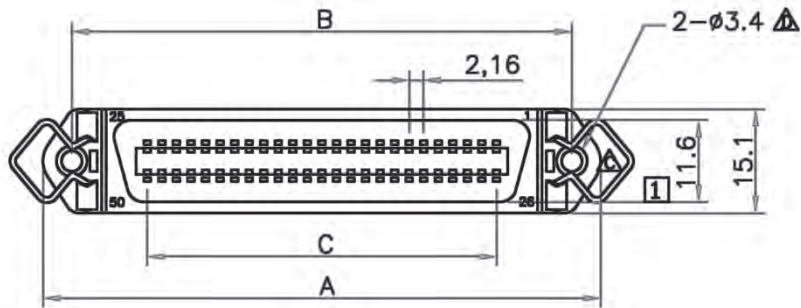
P/N 5730 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{M}{3}$   $\frac{U}{3}$

1. NO. OF CONTACTS:  
24, 36, 50
2. SHELL TYPE:  
"M" METAL SHELL
3. INSULATOR COLOR:  
"U" BLUE

# 57 SERIES CENTRONIC FEMALE CONNECTOR ALL PLASTIC IDC TYPE WITH SPRING LATCH & SR FOR FLAT CABLE ASSEMBLY

Position

	A±0.25	B±0.13	C±0.13	D±0.25	E±0.25
24	54.70	46.78	23.76	35.50	37.50
36	67.80	59.74	36.72	51.50	53.75
50	82.80	74.85	51.84	68.50	70.90



## SPECIFICATIONS

**Current Rating:** 5 Amp  
**Dielectric Strength:** AC 1000V Min.  
**Insulation Resistance:** 1000MΩ Min.  
**Contact Resistance:** 25mΩ Max. Mated  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Shell:** Steel, Zinc Plated, Tin Plated or Nickel Plated Steel  
**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0  
**Pin Contact:** Phosphor Bronze or Brass  
 \*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5730 -  $\frac{x}{1} \frac{x}{2} \frac{P}{3} \frac{U}{3}$

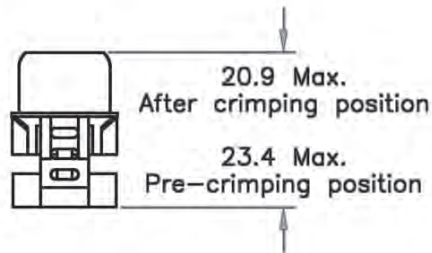
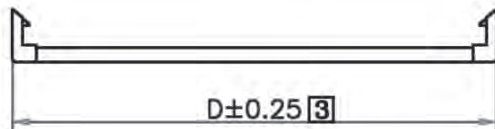
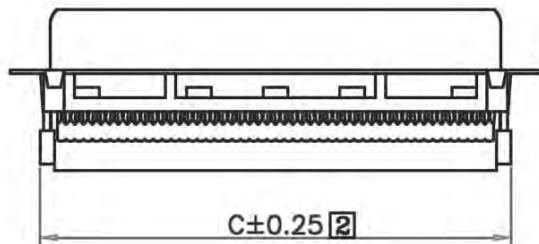
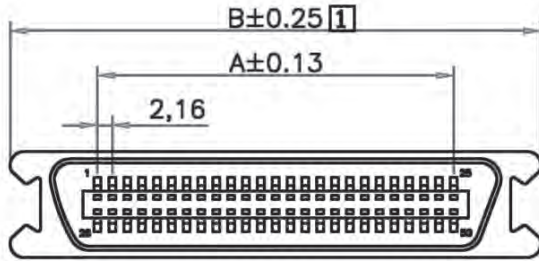
1. NO. OF CONTACTS:  
24, 36, 50
2. SHELL TYPE:  
"P" ALL PLASTIC
3. INSULATOR COLOR:  
"U" BLUE



# 57 SERIES CENTRONIC MALE CONNECTOR IDC TYPE WITH METAL SHELL FOR FLAT CABLE ASSEMBLY

Position

	A	B	C	D
24	23.76	49.3	35.5	37.50
36	36.72	62.0	51.5	53.75
50	51.84	77.4	68.5	70.90



## SPECIFICATIONS

**Current Rating:** 1 Amp  
**Dielectric Strength:** AC 1000V Min.  
**Insulation Resistance:** 1000MΩ Min.  
**Contact Resistance:** 25mΩ Max. Mated  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Shell:** Steel, Zinc Plated, Tin Plated or Nickel Plated Steel  
**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0  
**Pin Contact:** Phosphor Bronze or Brass  
 \*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5729 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{M}{3}$   $\frac{U}{3}$

1. NO. OF CONTACTS:  
24, 36, 50
2. SHELL TYPE:  
"M" METAL SHELL
3. INSULATOR COLOR:  
"U" BLUE

# 57 SERIES CENTRONIC MALE CONNECTOR ALL PLASTIC IDC TYPE WITH SPRING LATCH & SR FOR FLAT CABLE ASSEMBLY

Position

	A±0.15	B±0.30	C±0.30	D±0.30
24	23.76	48.60	35.50	37.50
36	36.72	61.60	51.50	53.75
50	51.84	76.70	68.50	70.90

## SPECIFICATIONS

**Current Rating:** 5 Amp

**Dielectric Strength:** AC 1000V Min.

**Insulation Resistance:** 1000MΩ Min.

**Contact Resistance:** 25mΩ Max. Mated

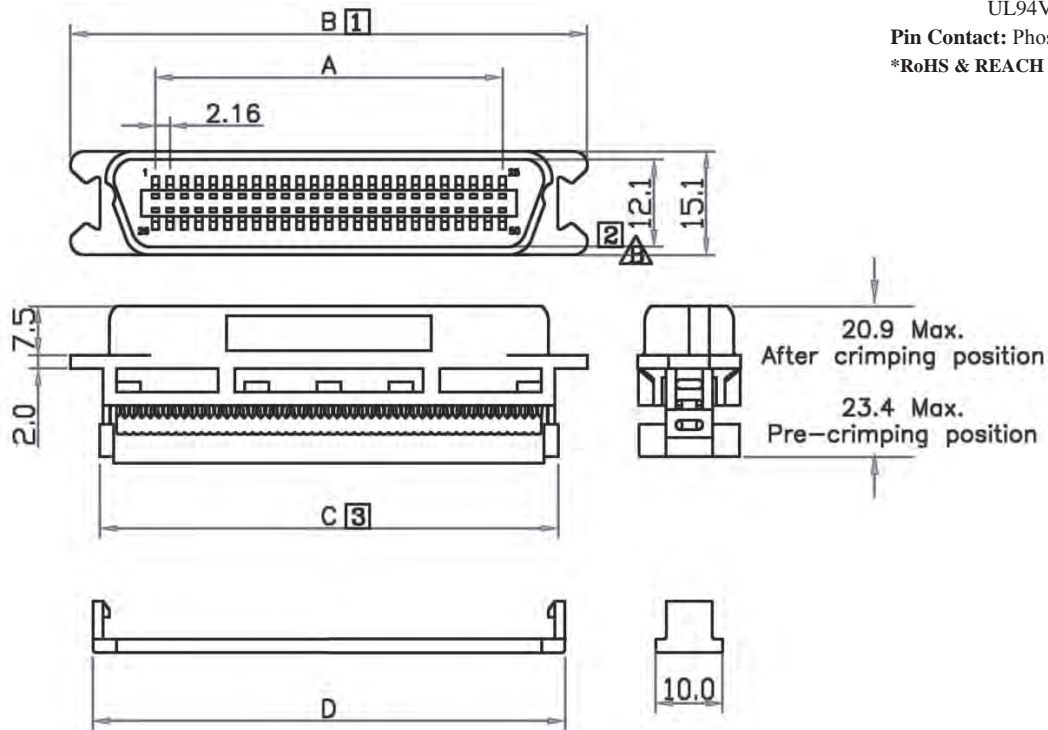
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0

**Pin Contact:** Phosphor Bronze or Brass

\*RoHS & REACH compliant.



## ORDERING INFORMATION:

P/N 5729 -  $\frac{x}{1} \frac{x}{2} \frac{P}{3} \frac{U}{3}$

1. NO. OF CONTACTS:  
24, 36, 50
2. SHELL TYPE:  
"P" ALL PLASTIC
3. INSULATOR COLOR:  
"U" BLUE

## 57 SERIES CENTRONIC CONNECTOR STRAIGHT PCB MOUNT TYPE

### SPECIFICATIONS

**Current Rating:** 1.0 Ampere

**Contact Resistance:** 30mΩ Max.

**Insulation Resistance:** 1000MΩ Min.

**Dielectric Voltage:** 500V AC at 1 Minute

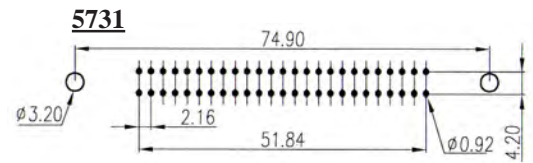
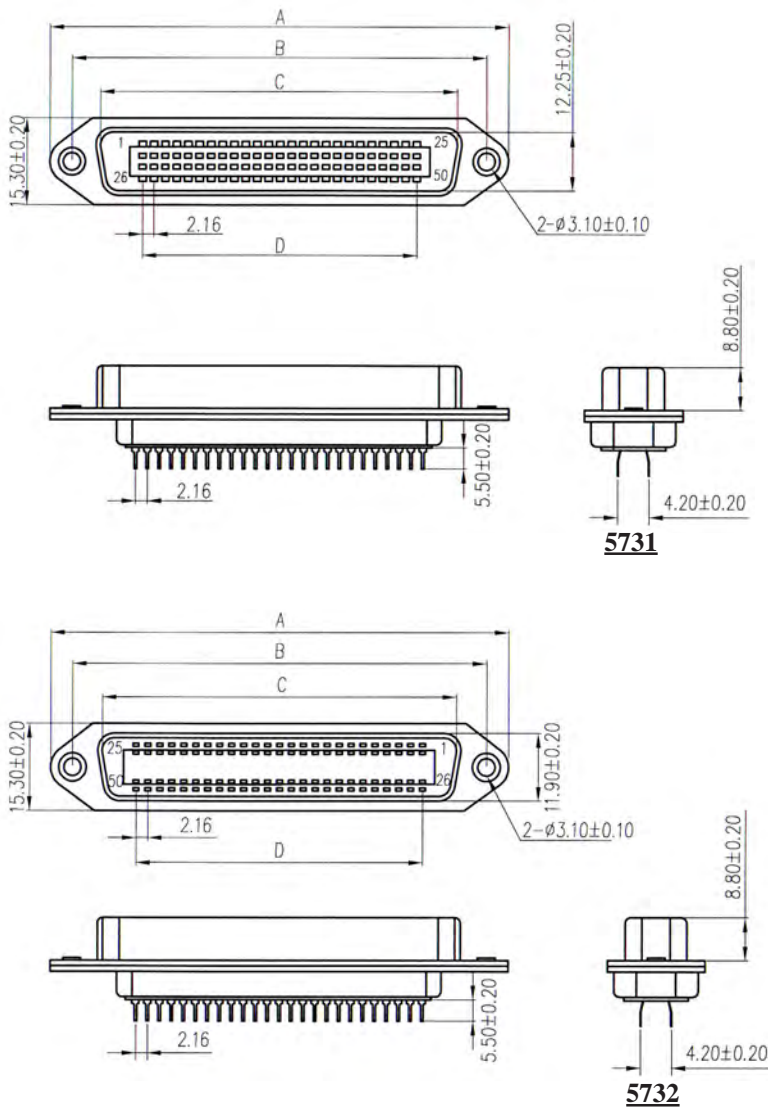
**Operating Temperature:** -55°C to +105°C

### MATERIALS

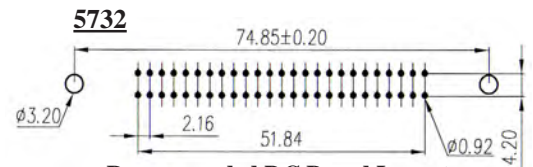
**Insulator:** PBT, UL94V-0 Rated

**Contact:** Phosphor Bronze

\*RoHS & REACH compliant.



**Recommended P.C.Board Layout**



**Recommended P.C.Board Layout**

### 5731

No. of Contacts	Dimensions(mm)			
	A±0.20	B±0.20	C±0.20	D±0.20
14	43.90	36.00	25.50	12.96
24	54.70	46.80	36.30	23.76
36	67.70	59.70	49.30	36.72
50	82.80	74.90	64.40	51.48

### 5732

No. of Contacts	Dimensions(mm)			
	A±0.20	B±0.20	C±0.20	D±0.20
14	43.90	35.99	25.20	12.96
24	54.71	46.79	36.00	23.76
36	67.69	59.74	48.90	36.72
50	82.78	74.85	64.00	51.84

## ORDERING INFORMATION:

P/N 57  $\frac{XX}{1}$  -  $\frac{XX}{2}$

### 1. CONNECTOR TYPE:

"31" MALE WITHOUT LATCHES

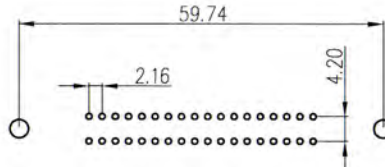
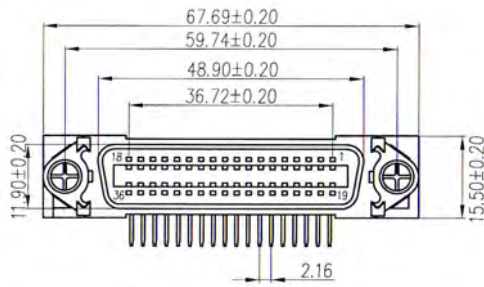
"32" FEMALE WITHOUT LATCHES

"34" FEMALE WITH 2 LATCHES

### 2. NO. OF CONTACTS:

14, 24, 36, 50

## 57 SERIES CENTRONIC FEMALE CONNECTORS RIGHT ANGLE PCB MOUNT TYPE



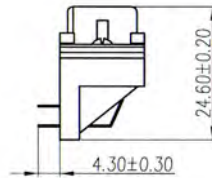
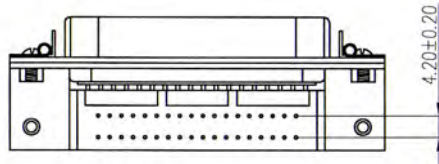
Recommended P.C.Board Layout

### SPECIFICATIONS

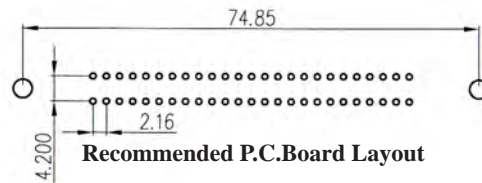
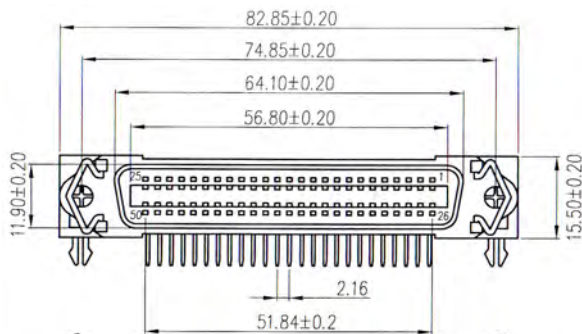
**Current Rating:** 1.0 Ampere  
**Contact Resistance:** 30mΩ Max.  
**Insulation Resistance:** 1000MΩ Min.  
**Dielectric Voltage:** 500V AC at 1 Minute  
**Operating Temperature:** -55°C to +105°C

### MATERIALS

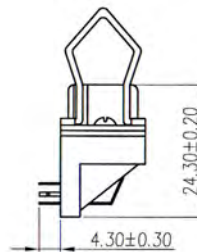
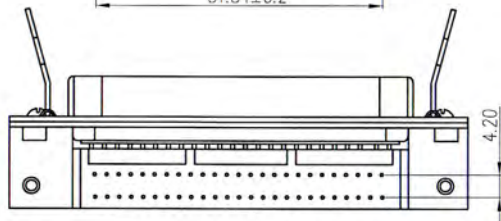
**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Brass  
 \*RoHS & REACH compliant.



**5742-36**



Recommended P.C.Board Layout



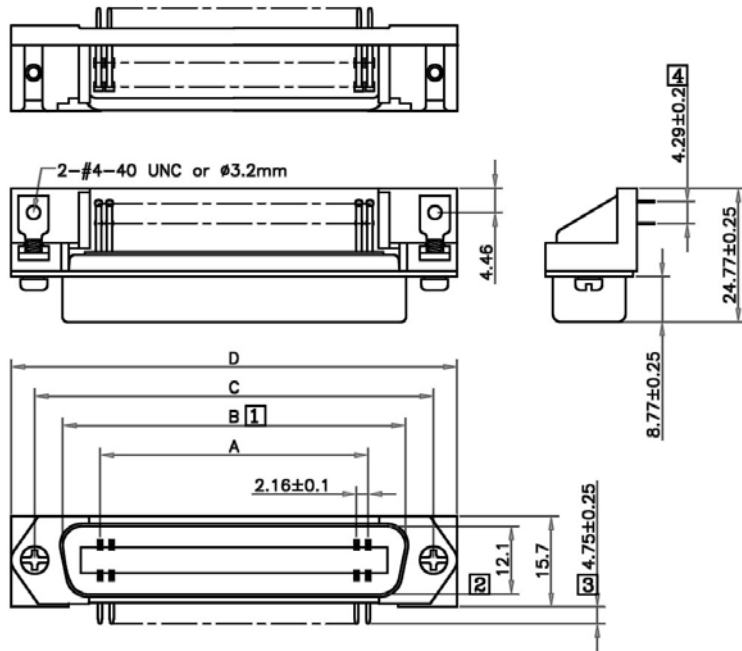
**5744-50**

### ORDERING INFORMATION:

P/N 57  $\frac{XX}{1}$  -  $\frac{XX}{2}$

1. CONNECTOR TYPE:  
 "42" FEMALE WITHOUT LATCHES  
 "44" FEMALE WITH 2 LATCHES
2. NO. OF CONTACTS:  
 36, 50

# 57 SERIES CENTRONIC MALE CONNECTOR RIGHT ANGLE DIP TYPE



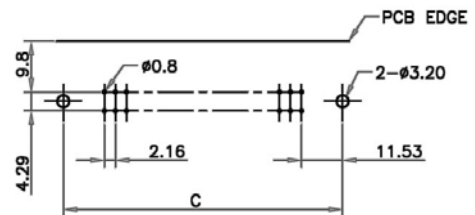
Positions	A	B	C	D
14	12.96	25.6	36.0	43.9
24	23.76	36.3	46.8	54.7
36	36.72	49.3	59.6	67.7
50	51.84	64.4	74.9	82.8

## SPECIFICATIONS

**Current Rating:** 1 Amp  
**Dielectric Strength:** 1000V for 1 Min.  
**Insulation Resistance:** 1000MΩ Min.  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Shell:** Steel, Zinc Plated, Tin Plated or Nickel Plated Steel  
**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0  
**Pin Contact:** Phosphor Bronze  
 \*RoHS & REACH compliant.



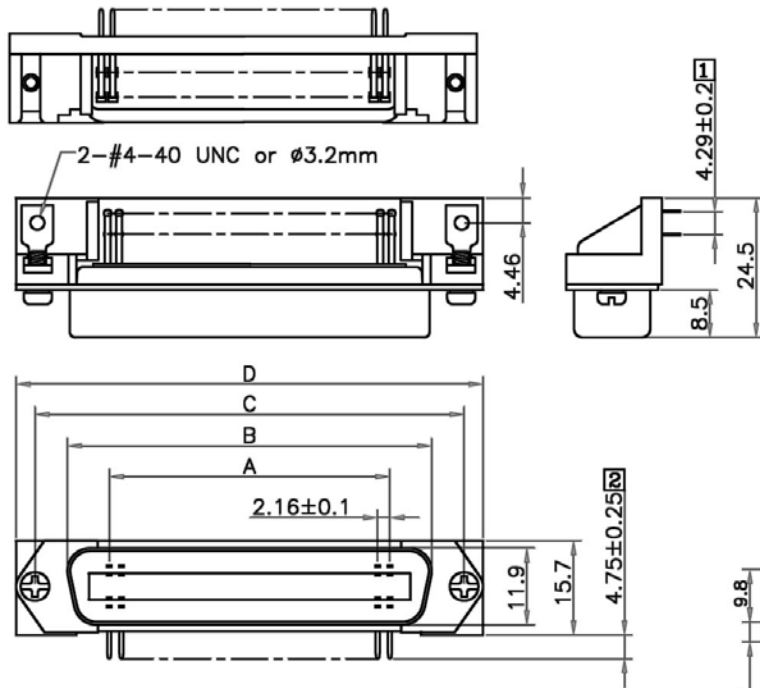
Recommended P.C.Board Layout

## ORDERING INFORMATION:

P/N 5719 -  $\frac{X X X X}{1 \quad 2}$

- NO. OF CONTACTS:  
14, 24, 36, 50
- MOUNTING TYPE:  
"00" Ø3.2MM NON-THREADED HOLES  
"U4" UNC4-40 THREADED HOLES

# 57 SERIES CENTRONIC FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



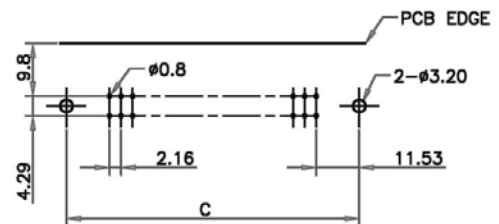
Positions	A	B	C	D
14	12.96	25.2	36.0	43.9
24	23.76	36.0	46.8	54.7
36	36.72	48.9	59.7	67.7
50	51.84	64.1	74.9	82.8

## SPECIFICATIONS

**Current Rating:** 1 Amp  
**Dielectric Strength:** 1000V for 1 Min.  
**Insulation Resistance:** 1000MΩ Min.  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Shell:** Steel, Zinc Plated, Tin Plated or Nickel Plated Steel  
**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0  
**Pin Contact:** Phosphor Bronze  
 \*RoHS & REACH compliant.



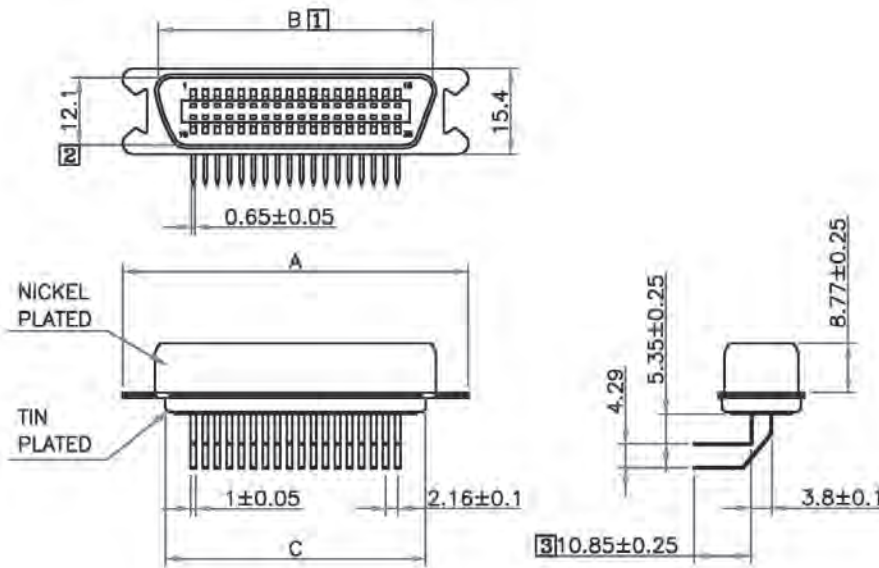
Recommended P.C.Board Layout

## ORDERING INFORMATION:

P/N 5720 -  $\frac{XX}{1} \frac{XX}{2}$

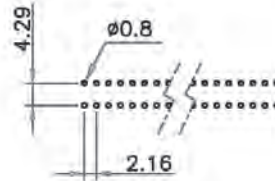
- NO. OF CONTACTS:  
14, 24, 36, 50
- MOUNTING TYPE:  
"00" Ø3.2MM NON-THREADED HOLES  
"U4" UNC4-40 THREADED HOLES

# 57 SERIES CENTRONIC MALE CONNECTOR RIGHT ANGLE DIP TYPE



Position

	A	B	C
36	62.1	49.3	46.8
50	77.2	64.4	62.0



Recommended P.C.Board Layout

## SPECIFICATIONS

**Current Rating:** 5 Amp  
**Dielectric Strength:** 1000V for 1 Min.  
**Insulation Resistance:** 1000MΩ Min.  
**Contact Resistance:** 25mΩ Max. Mated  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

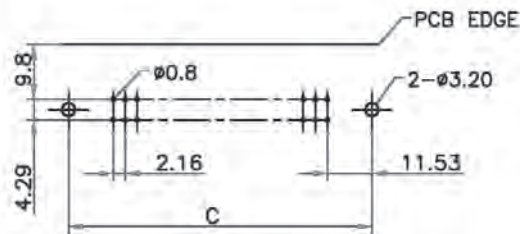
**Shell:** Steel, Tin Plated & Nickel Plated Steel  
**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0  
**Pin Contact:** Phosphor Bronze  
 \*RoHS & REACH compliant.

## ORDERING INFORMATION:

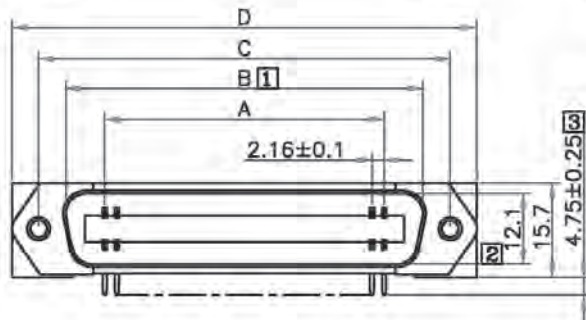
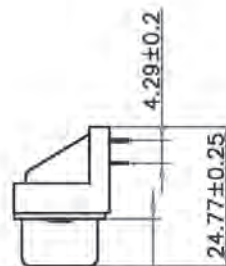
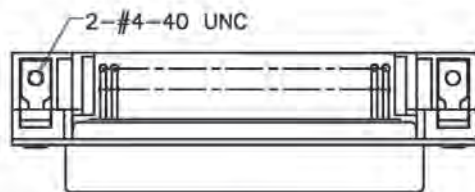
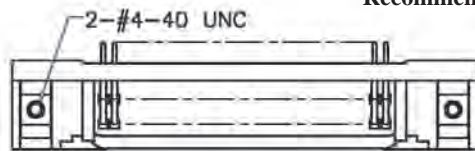
P/N 5743 -  $\frac{x}{x}$   
 I

1. NO. OF CONTACTS:  
 36, 50

# 57 SERIES CENTRONIC MALE CONNECTOR RIGHT ANGLE TYPE WITH RIVETED L SHAPE



Recommended P.C.Board Layout



Positions	A	B	C	D
14	12.96	25.6	36.0	43.9
24	23.76	36.3	46.8	54.7
36	36.72	49.3	59.6	67.7
50	51.84	64.4	74.9	82.8

## SPECIFICATIONS

**Current Rating:** 1 Amp  
**Dielectric Strength:** 1000V for 1 Min.  
**Insulation Resistance:** 1000MΩ Min.  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Shell:** Steel, Zinc Plated, Tin Plated or Nickel Plated Steel  
**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0  
**Pin Contact:** Phosphor Bronze  
 \*RoHS & REACH compliant.

## ORDERING INFORMATION:

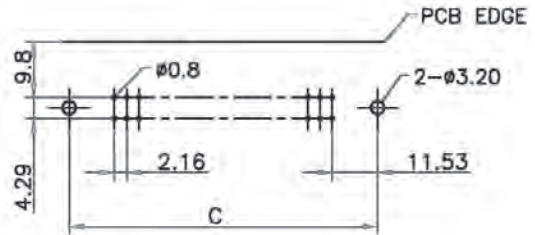
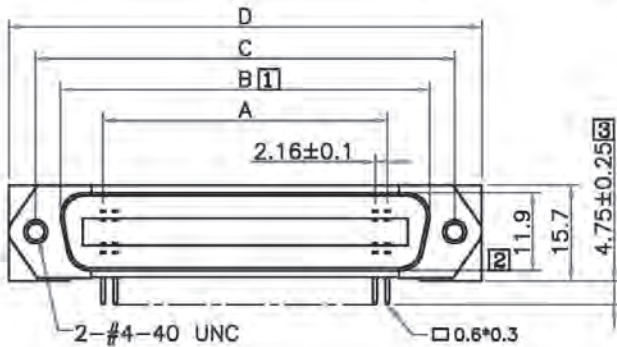
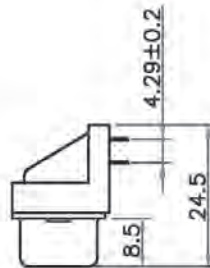
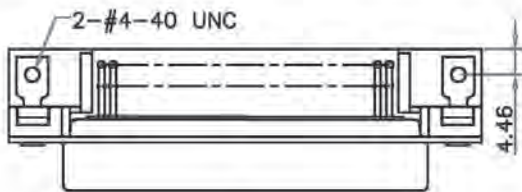
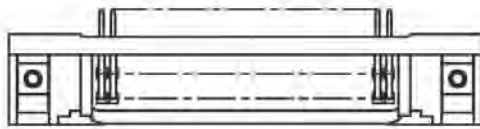
P/N 5747 -  $\frac{xx}{1} \frac{xx}{2}$

1. NO. OF CONTACTS:  
14, 24, 36, 50
2. MOUNTING TYPE:  
"U4" WITH #4-40UNC THREADED HOLES  
"M3" WITH M3 THREADED HOLES



# 57 SERIES CENTRONIC FEMALE CONNECTOR RIGHT ANGLE TYPE WITH RIVETED L SHAPE

Positions	A	B	C	D
14	12.96	25.2	36.0	43.9
24	23.76	36.0	46.8	54.7
36	36.72	48.9	59.7	67.7
50	51.84	64.1	74.9	82.8



Recommended P.C.Board Layout

## SPECIFICATIONS

**Current Rating:** 1 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000MΩ Min.

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Shell:** Steel, Zinc Plated, Tin Plated or Nickel Plated Steel

**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0

**Pin Contact:** Phosphor Bronze

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5748 -  $\frac{X X X X}{I 2}$

1. NO. OF CONTACTS:

14, 24, 36, 50

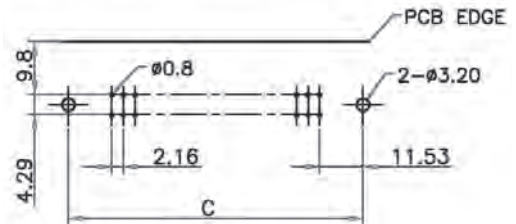
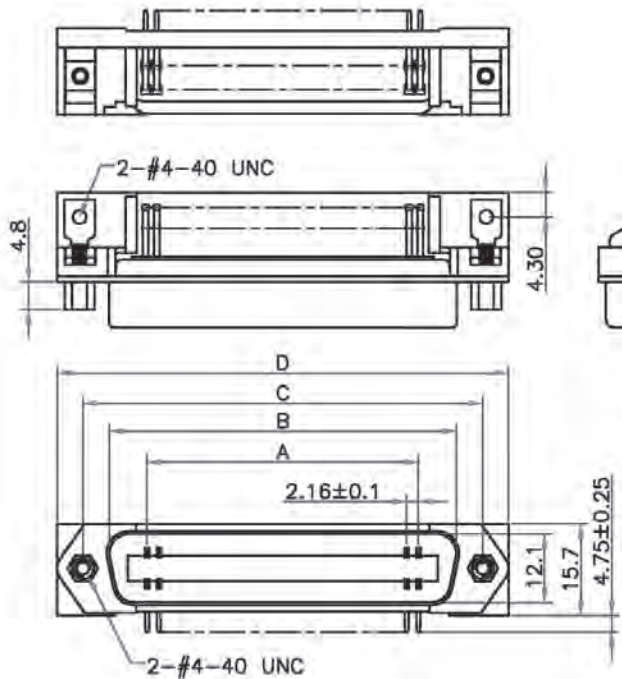
2. MOUNTING TYPE:

"U4" WITH #4-40UNC THREADED HOLES

"M3" WITH M3 THREADED HOLES

# 57 SERIES CENTRONIC MALE CONNECTOR RIGHT ANGLE TYPE WITH RIVETED L SHAPE & HEX SCREWS

Positions	A	B	C	D
14	12.96	25.6	36.0	43.9
24	23.76	36.3	46.8	54.7
36	36.72	49.3	59.6	67.7
50	51.84	64.4	74.9	82.8



Recommended P.C.Board Layout

## SPECIFICATIONS

**Current Rating:** 1 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000MΩ Min.

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Shell:** Steel, Zinc Plated, Tin Plated or Nickel Plated Steel

**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0

**Pin Contact:** Phosphor Bronze

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5749 -  $\frac{X X X X}{1 \quad 2}$

### 1. NO. OF CONTACTS:

14, 24, 36, 50

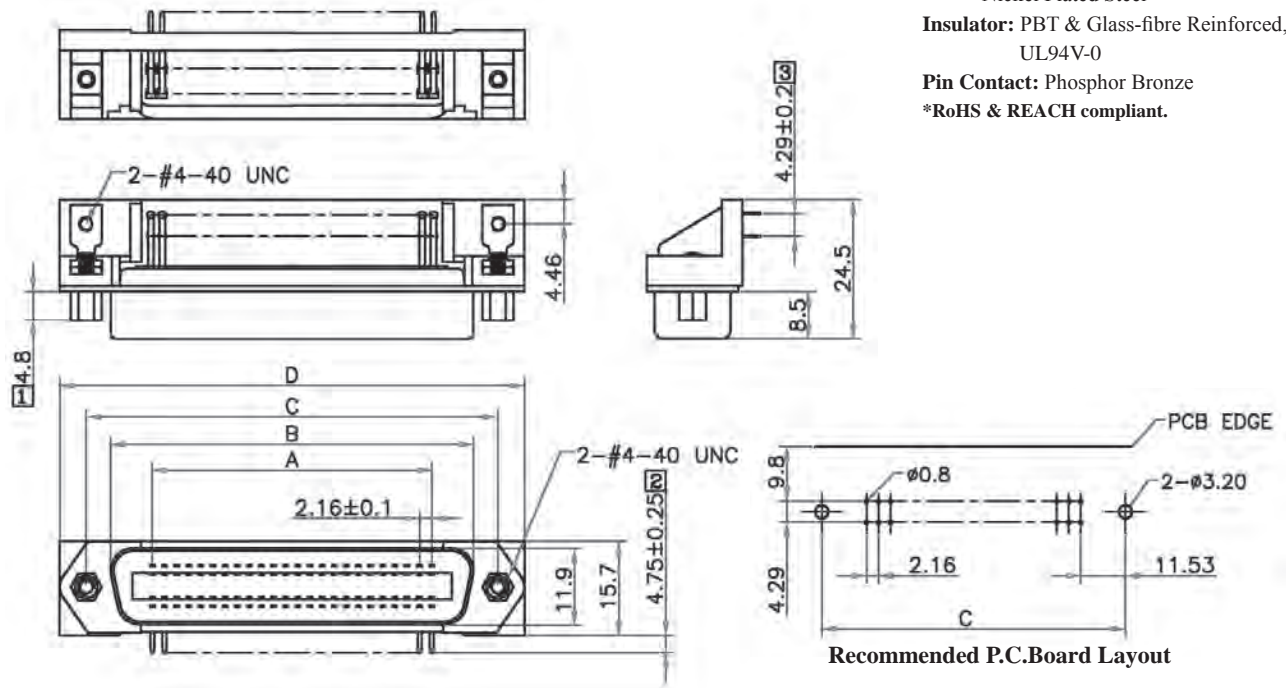
### 2. MOUNTING TYPE:

"U4" WITH #4-40UNC THREADED HOLES

"M3" WITH M3 THREADED HOLES

# 57 SERIES CENTRONIC FEMALE CONNECTOR RIGHT ANGLE TYPE WITH RIVETED L SHAPE & HEX SCREWS

Positions	A	B	C	D
14	12.96	25.2	36.0	43.9
24	23.76	36.0	46.8	54.7
36	36.72	48.9	59.7	67.7
50	51.84	64.1	74.9	82.8



## SPECIFICATIONS

**Current Rating:** 1 Amp

**Dielectric Strength:** 1000V for 1 Min.

**Insulation Resistance:** 1000MΩ Min.

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Shell:** Steel, Zinc Plated, Tin Plated or Nickel Plated Steel

**Insulator:** PBT & Glass-fibre Reinforced, UL94V-0

**Pin Contact:** Phosphor Bronze

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5750 -  $\frac{X X X X}{1 \quad 2}$

### 1. NO. OF CONTACTS:

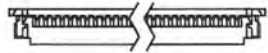
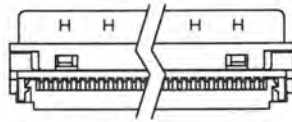
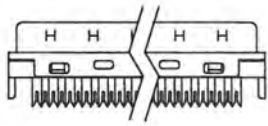
14, 24, 36, 50

### 2. MOUNTING TYPE:

"U4" WITH #4-40UNC THREADED HOLES

"M3" WITH M3 THREADED HOLES

# HALF PITCH (1.27MM) MINI RIBBON IDC TYPE CABLE MALE CONNECTOR WITHOUT HOOD



Termination Cover

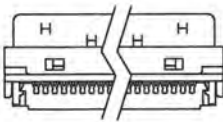


Termination Plate Cover

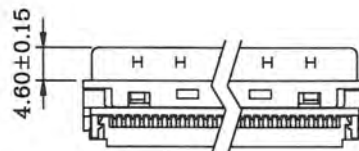
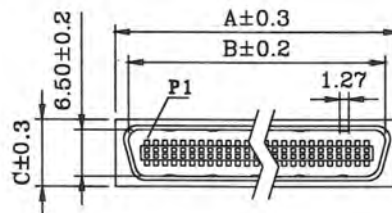


Wire Holder

**M Type (W/O Hood)**  
(50,68 Pos)



**M Type (W/O Hood)**  
(14,20,26,36,40,100 Pos)



## SPECIFICATIONS

**Current Rating:** 1.0 Amp

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 35m OHMS Max.

**Insulation Resistance:** 500M OHMS Min

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Contacts:** Copper Alloy, Gold Selective Plated

**Front Shell:** Steel, Nickel Plated Over Copper

**Cover & Holder:** Plastic Thermoplastic UL94V-0,  
P.B.T. UL94V-0, Black

\*RoHS & REACH compliant.

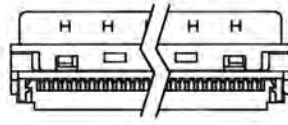
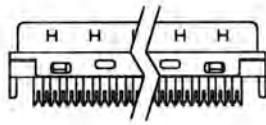
No. of Contacts	A	B	C	D
14	16.45	12.80	8.60	13.20
20	20.00	16.60	9.30	13.20
26	24.00	20.40	9.30	13.20
36	30.40	26.70	8.60	13.20
40	32.95	29.25	9.30	13.20
50	39.30	35.60	9.30	13.80
68	50.80	46.95	9.30	13.20
100	71.05	67.29	9.30	13.50

## ORDERING INFORMATION:

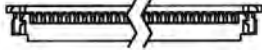
P/N 57 M C -  $\frac{x}{1} \frac{x}{2} \frac{M}{3} \frac{x}{3}$

1. NO. OF CONTACTS:  
14, 20, 26, 36, 40, 50, 68, 100
2. MANUFACTURED TYPE:  
"M" MOLDED TYPE (W/O HOOD)
3. WIRE HOLDER (AWG28 & AWG30):  
"6" 0.62MM  
"7" 0.75MM  
"8" 0.80MM  
"9" 0.90MM

# HALF PITCH (1.27MM) MINI RIBBON IDC TYPE CABLE MALE CONNECTOR KIT WITH HOOD



**A Type (With Hood)**  
(50,68 Pos)



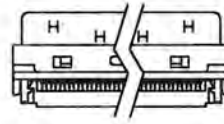
**Termination Cover**



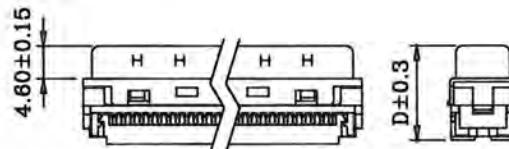
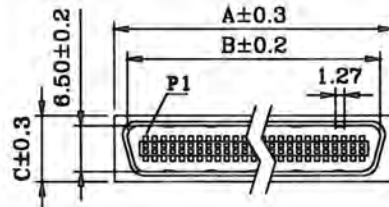
**Termination Plate Cover**



**Wire Holder**



**A Type (With Hood)**  
(14,20,26,36,40,100 Pos)



## SPECIFICATIONS

**Current Rating:** 1.0 Amp

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 35m OHMS Max.

**Insulation Resistance:** 500M OHMS Min

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Contacts:** Copper Alloy, Gold Selective Plated

**Front Shell:** Steel, Nickel Plated Over Copper

**Cover & Holder:** Plastic Thermoplastic UL94V-0,  
P.B.T. UL94V-0, Black

\*RoHS & REACH compliant.

No. of Contacts	A	B	C	D
14	16.45	12.80	8.60	13.20
20	20.00	16.60	9.30	13.20
26	24.00	20.40	9.30	13.20
36	30.40	26.70	8.60	13.20
40	32.95	29.25	9.30	13.20
50	39.30	35.60	9.30	13.80
68	50.80	46.95	9.30	13.20
100	71.05	67.29	9.30	13.50

## ORDERING INFORMATION:

P/N 57 M C -  $\frac{x}{1} \frac{x}{2} \frac{A}{3} \frac{x}{4} \frac{x}{5} \frac{x}{6}$

### 1. NO. OF CONTACTS:

14, 20, 26, 36, 40, 50, 68, 100

### 2. WIRE HOLDER (AWG28 & AWG30):

"6" 0.62MM

"7" 0.75MM

"8" 0.80MM

"9" 0.90MM

### 3. HOOD TYPE:

PLASTIC HOOD: PHL, PHLS, PHS

METAL HOOD: MHL, MHR, MHS, MHES, MHES

(SEE PAGE C0491~C0499)

### 4. ENTRY HOLE SIZE OF HOOD:

0, 4A, 6, 6A, 7, 7A, 8, 8A, 9,

10A, 11, 12, 14, 14A, 15A, Y

(SEE PAGE C0491~C0499)

### 5. HOOD COLOR OR FINISH:

"V" BEIGE (PLASTIC HOOD)

"B" BLACK (PLASTIC HOOD)

"N" NICKEL PLATED (METAL HOOD)

"G" GOLD PLATED (METAL HOOD)

### 6. THREADED FINISH:

(ONLY FOR SCREW BRACKET)

"1" JACKSCREWS #2-56

"2" JACKSCREWS #4-40

"3" JACKSCREWS M2.6

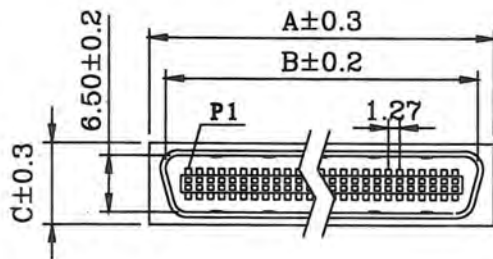
# HALF PITCH (1.27MM) MINI RIBBON SOLDER TYPE CABLE MALE CONNECTOR WITHOUT HOOD

## SPECIFICATIONS

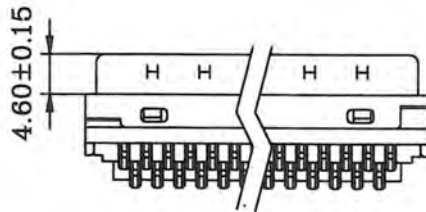
**Current Rating:** 1.0 Amp  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 35m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

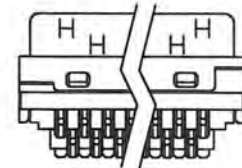
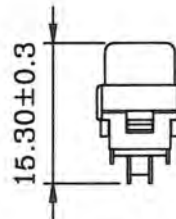
**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
**Front Shell:** Steel, Nickel Plated Over Copper  
**\*RoHS & REACH compliant.**



No. of Contacts	A	B	C
14	16.45	12.80	8.60
20	20.20	16.60	9.30
26	24.00	20.40	9.30
36	30.40	26.70	8.60
40	33.00	29.25	9.30
50	39.30	35.60	9.30
68	50.80	46.95	9.30
100	71.05	67.29	9.30



**M Type (W/O Hood)**  
(36,50,68 Pos)



**M Type (W/O Hood)**  
(14,20,26,40,100 Pos)

## ORDERING INFORMATION:

P/N 57MS -  $\frac{XX}{I}$   $\frac{M}{2}$

1. NO. OF CONTACTS:  
14, 20, 26, 36, 40, 50, 68, 100
2. MANUFACTURED TYPE:  
"M" MOLDED TYPE (W/O HOOD)

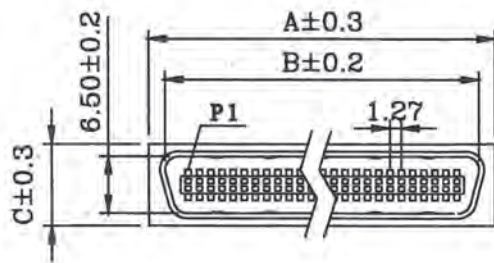
# HALF PITCH (1.27MM) MINI RIBBON SOLDER TYPE CABLE MALE CONNECTOR KIT WITH HOOD

## SPECIFICATIONS

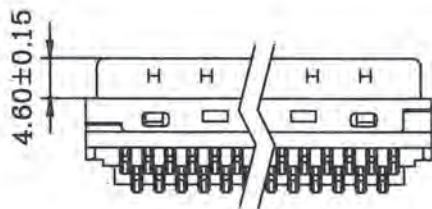
**Current Rating:** 1.0 Amp  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 35m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

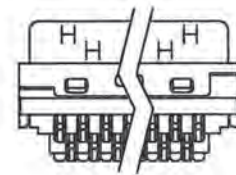
**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
**Front Shell:** Steel, Nickel Plated Over Copper  
**\*RoHS & REACH compliant.**



No. of Contacts	A	B	C
14	16.45	12.80	8.60
20	20.20	16.60	9.30
26	24.00	20.40	9.30
36	30.40	26.70	8.60
40	33.00	29.25	9.30
50	39.30	35.60	9.30
68	50.80	46.95	9.30
100	71.05	67.29	9.30



**A Type (With Hood)**  
(36,50,88 Pos)



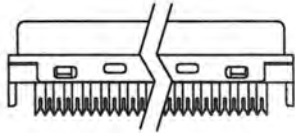
**A Type (With Hood)**  
(14,20,26,40,100 Pos)

## ORDERING INFORMATION:

P/N 57MS -  $\frac{xx}{1}$  A  $\frac{xxx}{2}$   $\frac{xxx}{3}$   $\frac{xxx}{4}$   $\frac{xxx}{5}$

- NO. OF CONTACTS:  
14, 20, 26, 36, 40, 50, 68, 100
- HOOD TYPE:  
PLASTIC HOOD: PHL, PHLs, PHS  
METAL HOOD: MHL, MHR, MHS, MHEl, MHES  
(SEE PAGE C0491~C0499)
- ENTRY HOLE SIZE OF HOOD:  
0, 4A, 6, 6A, 7, 7A, 8, 8A, 9,  
10A, 11, 12, 14, 14A, 15A, Y  
(SEE PAGE C0491~C0499)
- HOOD COLOR OR FINISH:  
"V" BEIGE (PLASTIC HOOD)  
"B" BLACK (PLASTIC HOOD)  
"N" NICKEL PLATED (METAL HOOD)  
"G" GOLD PLATED (METAL HOOD)
- THREADED FINISH:  
(ONLY FOR SCREW BRACKET)  
"1" JACKSCREWS #2-56  
"2" JACKSCREWS #4-40  
"3" JACKSCREWS M2.6

# HALF PITCH (1.27MM) MINI RIBBON IDC TYPE CABLE FEMALE CONNECTOR WITHOUT HOOD



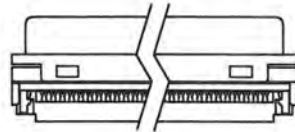
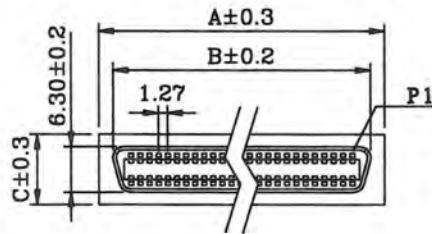
**Termination Cover**



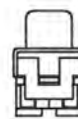
**Termination Plate Cover**



**Wire Holder**



**M Type (W/O Hood)**



## SPECIFICATIONS

**Current Rating:** 1.0 Amp

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 35m OHMS Max.

**Insulation Resistance:** 500M OHMS Min

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Contacts:** Copper Alloy, Gold Selective Plated

**Front Shell:** Steel, Nickel Plated Over Copper

**Cover & Holder:** Plastic Thermoplastic UL94V-0,  
P.B.T. UL94V-0, Black

**\*RoHS & REACH compliant.**

No. of Contacts	A	B	C	D
26	24.00	20.25	9.30	13.85
36	30.40	26.50	8.60	13.85
50	39.20	35.50	9.30	14.40
68	50.80	46.93	9.30	13.85

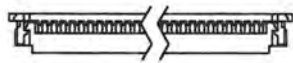
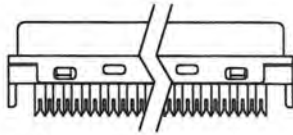
## ORDERING INFORMATION:

**P/N 57FC -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{M}{3}$   $\frac{x}{3}$**

1. NO. OF CONTACTS:  
26, 36, 50, 68
2. MANUFACTURED TYPE:  
"M" MOLDED TYPE (W/O HOOD)
3. WIRE HOLDER (AWG28 & AWG30):  
"6" 0.62MM  
"7" 0.75MM  
"8" 0.80MM  
"9" 0.90MM



# HALF PITCH (1.27MM) MINI RIBBON IDC TYPE CABLE FEMALE CONNECTOR KIT WITH HOOD



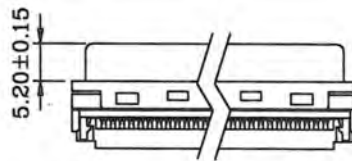
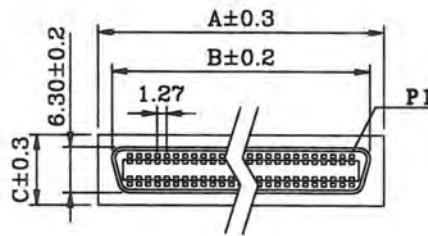
**Termination Cover**



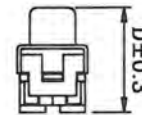
**Termination Plate Cover**



**Wire Holder**



**A Type (With Hood)**



## SPECIFICATIONS

**Current Rating:** 1.0 Amp

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 35m OHMS Max.

**Insulation Resistance:** 500M OHMS Min

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black

**Contacts:** Copper Alloy, Gold Selective Plated

**Front Shell:** Steel, Nickel Plated Over Copper

**Cover & Holder:** Plastic Thermoplastic UL94V-0,  
P.B.T. UL94V-0, Black

\*RoHS & REACH compliant.

No. of Contacts	A	B	C	D
26	24.00	20.25	9.30	13.85
36	30.40	26.50	8.60	13.85
50	39.20	35.50	9.30	14.40
68	50.80	46.93	9.30	13.85

## ORDERING INFORMATION:

P/N 57FC -  $\frac{XX}{1}A \frac{X}{2} \frac{XXXX}{3} \frac{XXX}{4} \frac{X}{5} \frac{X}{6}$

### 1. NO. OF CONTACTS:

26, 36, 50, 68

### 2. WIRE HOLDER (AWG28 & AWG30):

"6" 0.62MM

"7" 0.75MM

"8" 0.80MM

"9" 0.90MM

### 3. HOOD TYPE:

PLASTIC HOOD: PHL, PHLs, PHS

METAL HOOD: MHL, MHR, MHS, MHES, MHES

(SEE PAGE C0491~C0499)

### 4. ENTRY HOLE SIZE OF HOOD:

0, 4A, 6, 6A, 7, 7A, 8, 8A, 9,

10A, 11, 12, 14, 14A, 15A, Y

(SEE PAGE C0491~C0499)

### 5. HOOD COLOR OR FINISH:

"V" BEIGE (PLASTIC HOOD)

"B" BLACK (PLASTIC HOOD)

"N" NICKEL PLATED (METAL HOOD)

"G" GOLD PLATED (METAL HOOD)

### 6. THREADED FINISH:

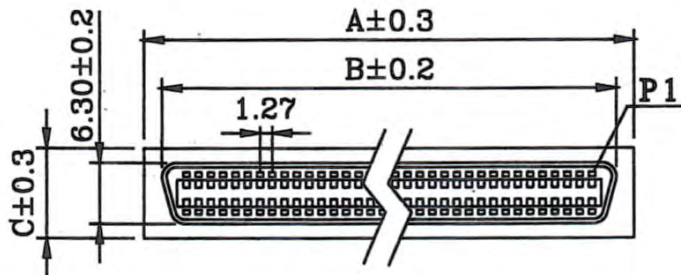
(ONLY FOR SCREW BRACKET)

"1" JACKSCREWS #2-56

"2" JACKSCREWS #4-40

"3" JACKSCREWS M2.6

# HALF PITCH (1.27MM) MINI RIBBON SOLDER TYPE CABLE FEMALE CONNECTOR WITHOUT HOOD



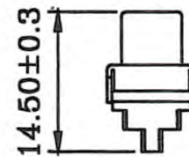
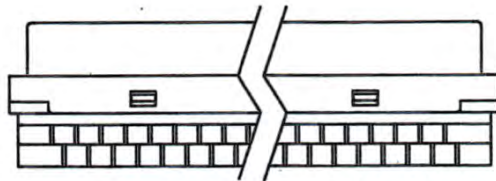
## SPECIFICATIONS

Current Rating: 1.0 Amp  
 Dielectric Withstanding: 500V AC  
 Contact Resistance: 35m OHMS Max.  
 Insulation Resistance: 500M OHMS Min  
 Operating Temperature: -55°C to +105°C

## MATERIALS

Housing: Plastic Thermoplastic P.B.T. UL94V-0, Black  
 Contacts: Copper Alloy, Gold Selective Plated  
 Front Shell: Steel, Nickel Plated Over Copper  
 \*RoHS & REACH compliant.

No. of Contacts	A	B	C
26	24.00	20.25	9.30
36	30.40	26.50	8.60
50	39.20	35.50	9.30
68	50.90	46.93	9.30



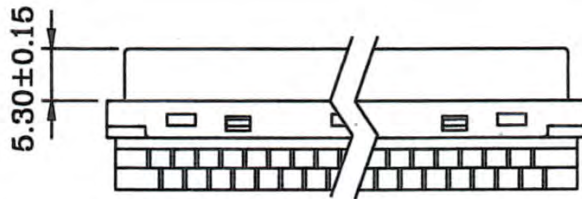
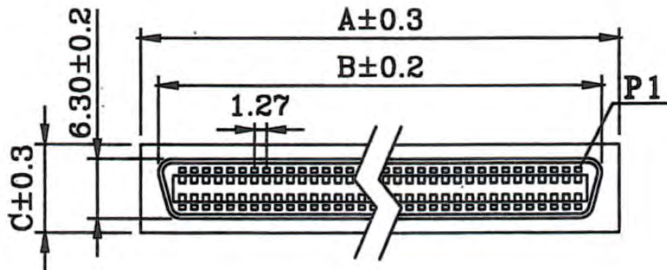
**M Type (W/O Hood)**

## ORDERING INFORMATION:

P/N 57FS -  $\frac{x}{1} \frac{x}{2} \frac{M}{2}$

1. NO. OF CONTACTS:  
26, 36, 50, 68
2. MANUFACTURED TYPE:  
"M" MOLDED TYPE (W/O HOOD)

# HALF PITCH (1.27MM) MINI RIBBON SOLDER TYPE CABLE FEMALE CONNECTOR KIT WITH HOOD



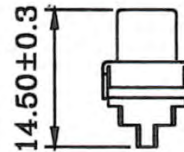
## SPECIFICATIONS

Current Rating: 1.0 Amp  
 Dielectric Withstanding: 500V AC  
 Contact Resistance: 35m OHMS Max.  
 Insulation Resistance: 500M OHMS Min  
 Operating Temperature: -55°C to +105°C

## MATERIALS

Housing: Plastic Thermoplastic P.B.T. UL94V-0, Black  
 Contacts: Copper Alloy, Gold Selective Plated  
 Front Shell: Steel, Nickel Plated Over Copper  
 \*RoHS & REACH compliant.

No. of Contacts	A	B	C
26	24.00	20.25	9.30
36	30.40	26.50	8.60
50	39.20	35.50	9.30
68	50.90	46.93	9.30



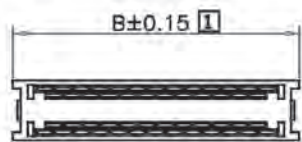
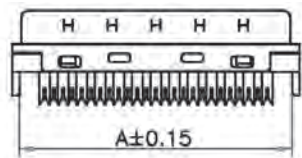
## A Type (with Hood)

## ORDERING INFORMATION:

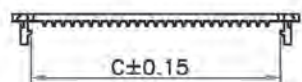
P/N 57FS -  $\frac{xx}{1}$  A  $\frac{xxx}{2}$   $\frac{xxx}{3}$   $\frac{xxx}{4}$   $\frac{xxx}{5}$

- NO. OF CONTACTS:  
26, 36, 50, 68
- HOOD TYPE:  
PLASTIC HOOD: PHL, PHLS, PHS  
METAL HOOD: MHL, MHR, MHS, MHEL, MHES  
(SEE PAGE C0491~C0499)
- ENTRY HOLE SIZE OF HOOD:  
0, 4A, 6, 6A, 7, 7A, 8, 8A, 9,  
10A, 11, 12, 14, 14A, 15A, Y  
(SEE PAGE C0491~C0499)
- HOOD COLOR OR FINISH:  
"V" BEIGE (PLASTIC HOOD)  
"B" BLACK (PLASTIC HOOD)  
"N" NICKEL PLATED (METAL HOOD)  
"G" GOLD PLATED (METAL HOOD)
- THREADED FINISH:  
(ONLY FOR SCREW BRACKET)  
"1" JACKSCREWS #2-56  
"2" JACKSCREWS #4-40  
"3" JACKSCREWS M2.6

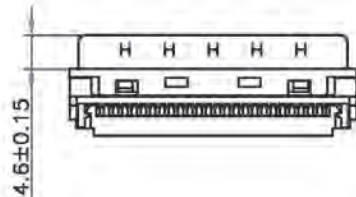
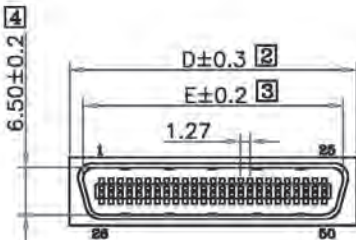
# HALF PITCH MINI RIBBON IDC TYPE CONNECTOR KIT FOR ROUND CABLE ASSEMBLY



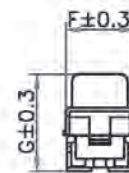
Termination Cover  
(1 Places)



Wire Holder  
(2 Places)



NO OF CONTACTS	A	B	C	D	E	F	G
14	14.38	16.38	11.18	16.45	12.80	8.60	13.10
20	18.10	20.10	14.90	20.20	16.60	9.50	13.10
26	22.10	24.00	18.80	24.00	20.40	9.50	13.10
36	28.35	29.40	25.21	30.40	26.70	8.60	13.10
50	37.30	38.30	34.10	39.30	35.60	9.50	13.80
68	48.75	50.80	45.85	50.90	48.95	9.30	13.10
100	69.05	71.05	66.86	71.05	67.29	9.30	13.60



## SPECIFICATIONS

Current Rating: 1 Amp

Insulation Resistance: 500MΩ Min.

Withstanding Voltage: 500V AC/Min.

Contact Resistance: 35mΩ Max.

Operating Temperature: -55°C to +105°C

## MATERIALS

Shell: Steel, Nickel Plated Over Copper

Insulator: Plastic Thermoplastic, PBT

UL94V-0

Contact: Phosphor Bronze,

Gold SelectivePlated

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5781 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

### 1. CONNECTOR TYPE:

"81" MALE

### 2. NO. OF CONTACTS:

14, 20, 26, 36, 50, 68, 100

### 3. LATCH & SCREW OPTION:

"L" WITH LATCHES

"S" WITH #2-56 SCREWS

### 4. COVER OD:

"6" Ø6.0MM (14P, 20P)

"6A" Ø6.5MM (20P)

"7" Ø7.0MM (20P, 26P)

"7A" Ø7.5MM (20P, 26P, 36P)

"8" Ø8.0MM (20P, 26P, 36P)

"8A" Ø8.5MM (26P, 36P)

"9" Ø9.0MM (26P, 36P, 40P, 50P)

"10" Ø10.0MM (50P)

"10A" Ø10.5MM (50P)

"11" Ø11.0MM (50P, 68P, 100P)

"14" Ø14.0MM (68P, 100P)

### 5. COVER TYPE:

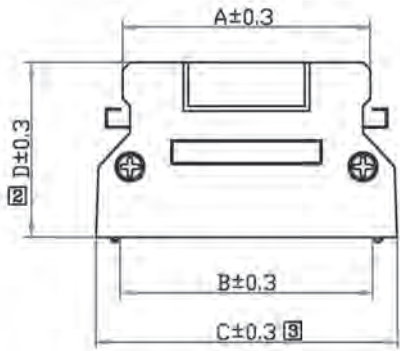
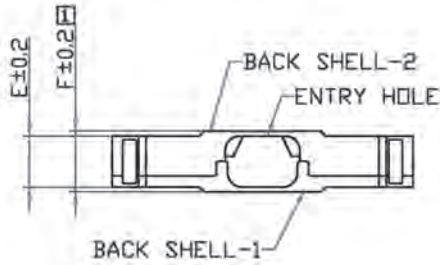
"0" WITHOUT COVER

"P" WITH PLASTIC COVER

"M" WITH METAL COVER

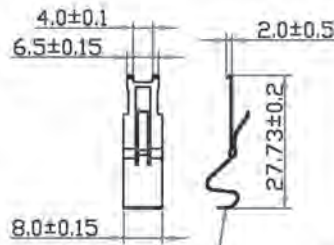
NOTE: SEE NEXT PAGE FOR METAL & PLASTIC COVERS!

# METAL COVER & PLASTIC COVER FOR HALF PITCH MINI RIBBON IDC TYPE PLUG



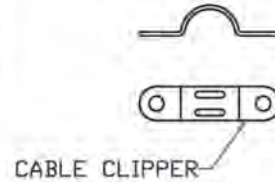
Positions

	A	B	C	D	E	F
26	25.10	25.14	35.10	36.70	10.71	12.65
36	31.50	31.54	41.50	36.70	10.71	12.65
50	40.50	40.54	50.50	36.70	10.71	12.65
68	51.30	51.50	61.60	36.70	10.70	12.50



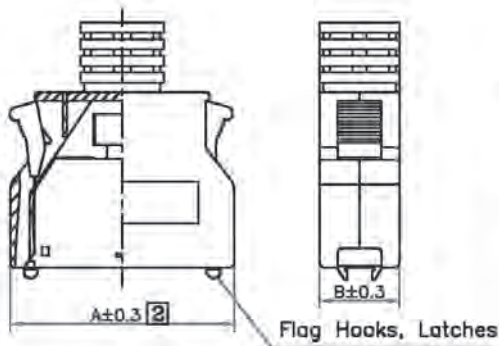
SPRING LATCHES \*2

ENTRY HOLE	
∅7.5	36,26
∅9.0	50,36,26
∅11.0	50,68
∅14.0	68

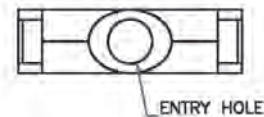
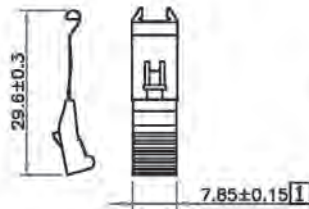


CABLE CLIPPER

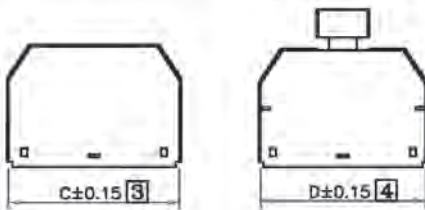
## METAL COVER FOR P/N 5781-xxxxxM



Flag Hooks, Latches



ENTRY HOLE



ENTRY HOLE	
14P	∅6.0
20P	∅6.0, ∅6.5, ∅7.0, ∅7.5, ∅8.0
26P	∅7.0, ∅8.0, ∅8.5
36P	∅7.5, ∅8.0, ∅8.5, ∅9.0
50P	∅9.0, ∅10.5

	A	B	C	D
14	26.00	12.00	17.60	16.30
20	30.00	12.40	21.40	20.20
26	33.70	12.40	25.30	23.95
36	39.90	11.40	31.60	30.30
50	49.20	12.50	40.55	39.35

## PLASTIC COVER FOR P/N 5781-xxxxxP

### MATERIALS

**Hood:** Plastic ABS

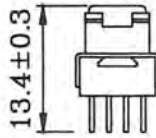
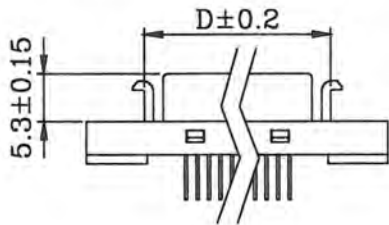
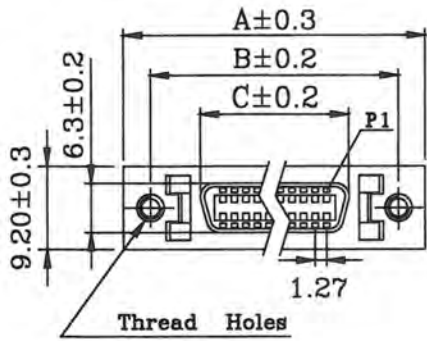
**Inner Shell:** Steel, Nickel Plated

**Flag Latch:** Phosphor Bronze, Nickel Plated

**Fish Latch:** Stainless Steel

\*RoHS & REACH compliant.

# HALF PITCH (1.27MM) MINI RIBBON FEMALE CONNECTOR VERTICAL MOUNT DIP TYPE (1)



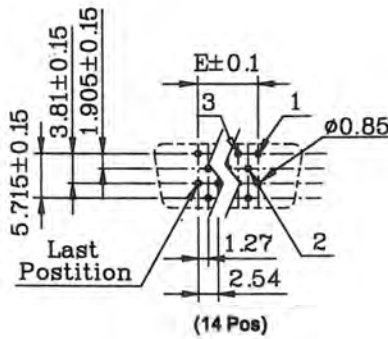
## SPECIFICATIONS

**Current Rating:** 1.0 Amp  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 35m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +105°C

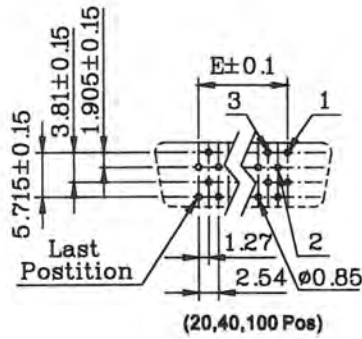
## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
**Front Shell:** Steel, Nickel Plated Over Copper  
**Bracket Shell:** Steel, Nickel Plated Over Copper  
 \*RoHS & REACH compliant.

No. of Contacts	A	B	C	D	E
14	29.60	23.64	12.63	17.08	7.62
20	33.40	27.44	16.44	20.80	11.43
40	46.08	40.14	29.14	33.30	24.13
100	84.18	78.23	67.14	71.50	62.23



Recommended P.C.Board Layout



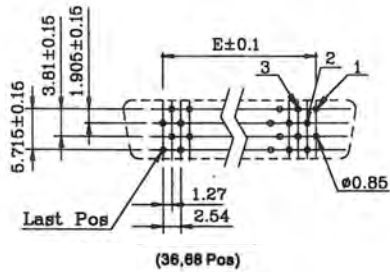
Recommended P.C.Board Layout

## ORDERING INFORMATION:

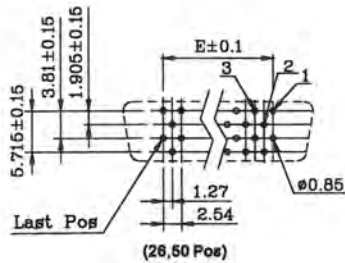
P/N 57F5 -  $\frac{x}{1} \frac{x}{2} \frac{L}{2} \frac{x}{3}$

1. NO. OF CONTACTS:  
14, 20, 40, 100
2. BRACKET TYPE:  
"L" LATCH BRACKET
3. THREADED FINISH:  
"1" #2-56  
"2" #4-40  
"3" M2.6

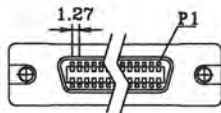
# HALF PITCH (1.27MM) MINI RIBBON FEMALE CONNECTOR VERTICAL MOUNT DIP TYPE (2)



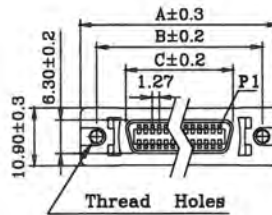
Recommended P.C.Board Layout



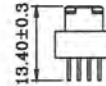
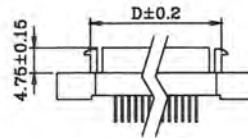
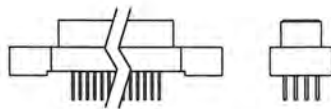
Recommended P.C.Board Layout



**S Type**



**L Type**



## SPECIFICATIONS

- Current Rating: 1.0 Amp
- Dielectric Withstanding: 500V AC
- Contact Resistance: 35m OHMS Max.
- Insulation Resistance: 500M OHMS Min
- Operating Temperature: -55°C to +105°C

## MATERIALS

- Housing: Plastic Thermoplastic P.B.T. UL94V-0, Black
- Contacts: Copper Alloy, Gold Selective Plated
- Bracket: Zinc Alloy, Nickel Plated Over Copper
- \*RoHS & REACH compliant.

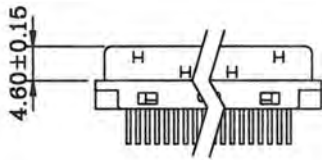
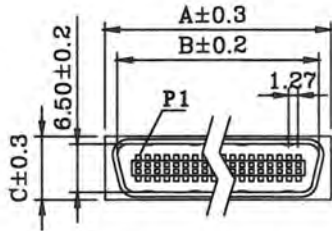
No. of Contacts	A	B	C	D	E
26	37.20	31.20	20.25	24.70	15.24
36	43.50	37.60	26.60	31.00	21.60
50	52.60	46.50	35.40	40.10	30.48
68	64.00	57.90	46.90	51.00	41.91

## ORDERING INFORMATION:

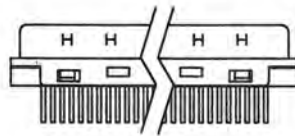
P/N 57F5 -  $\frac{X X X X}{I 2 3}$

- NO. OF CONTACTS:  
26, 36, 50, 68
- BRACKET TYPE:  
"L" LATCH BRACKET  
"S" SCREW BRACKET
- THREADED FINISH:  
"1" #2-56  
"2" #4-40  
"3" M2.6

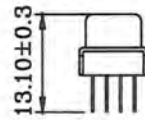
# HALF PITCH (1.27MM) MINI RIBBON MALE CONNECTOR VERTICAL DIP TYPE



(36,40,100 Pos)



(26,50 Pos)



13.10±0.3

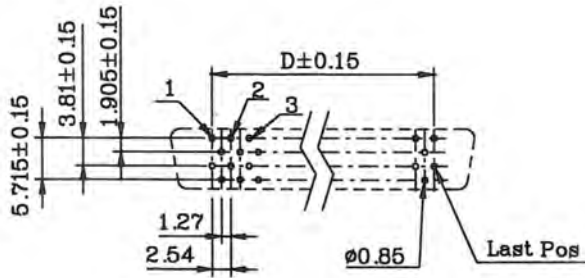
## SPECIFICATIONS

- Current Rating: 1.0 Amp
- Dielectric Withstanding: 500V AC
- Contact Resistance: 35m OHMS Max.
- Insulation Resistance: 500M OHMS Min
- Operating Temperature: -55°C to +105°C

## MATERIALS

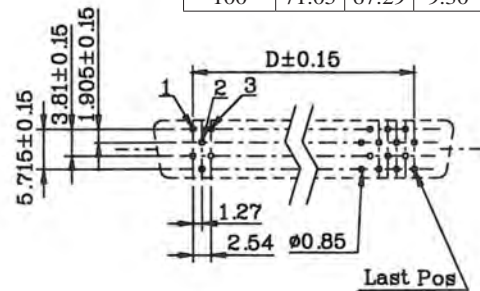
- Housing: Plastic Thermoplastic P.B.T. UL94V-0, Black
- Contacts: Copper Alloy, Gold Selective Plated
- Front Shell: Steel, Nickel Plated Over Copper
- \*RoHS & REACH compliant.

No. of Contacts	A	B	C	D
26	24.00	20.40	9.50	15.24
36	30.40	26.70	8.60	21.59
40	32.95	29.25	9.30	24.13
50	39.30	35.50	9.30	30.48
100	71.05	67.29	9.30	62.23



(26,50 Pos)

Recommended P.C.Board Layout



(36,40,100 Pos)

Recommended P.C.Board Layout

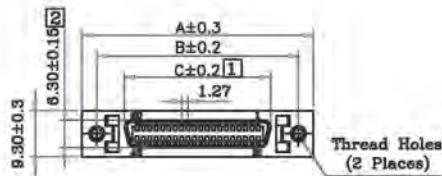
## ORDERING INFORMATION:

P/N 57 M 1 -  $\frac{xx}{I}$

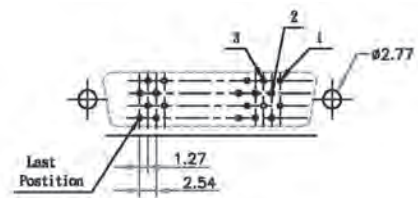
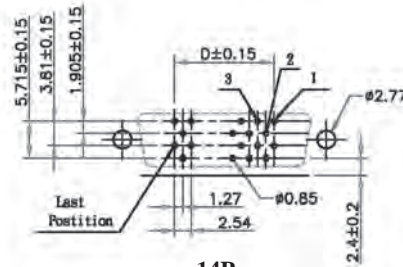
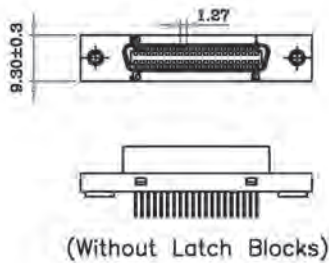
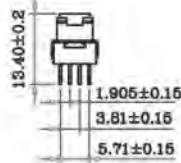
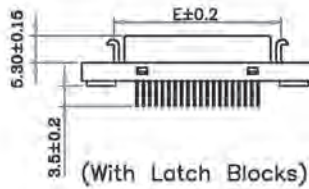
- 1. NO. OF CONTACTS:  
26, 36, 40, 50, 100



# HALF PITCH MINI RIBBON FEMALE CONNECTOR STRAIGHT PCB MOUNT TYPE (1)



NO OF CONTACTS	A	B	C	D	E
14	29.60	23.64	12.69	7.65	17.08
20	33.38	27.44	16.44	11.43	20.60
40	46.08	40.14	29.14	24.13	33.30
100	84.18	78.23	67.14	71.50	62.23



## SPECIFICATIONS

**Current Rating:** 1 Amp

**Dielectric Strength:** 500V for 1 Min.

**Insulation Resistance:** 500MΩ Min.

**Contact Resistance:** 35mΩ Max.

**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Shell & Bracket:** Steel, Nickel or Tin  
Plated Over Copper

**Housing & Cover:** PBT, UL94V-0

**Pin Contact:** Phosphor Bronze, Gold  
Selective Plated Over Tin

**Boardlock:** Phosphor Bronze, Tin Plated  
Over Copper

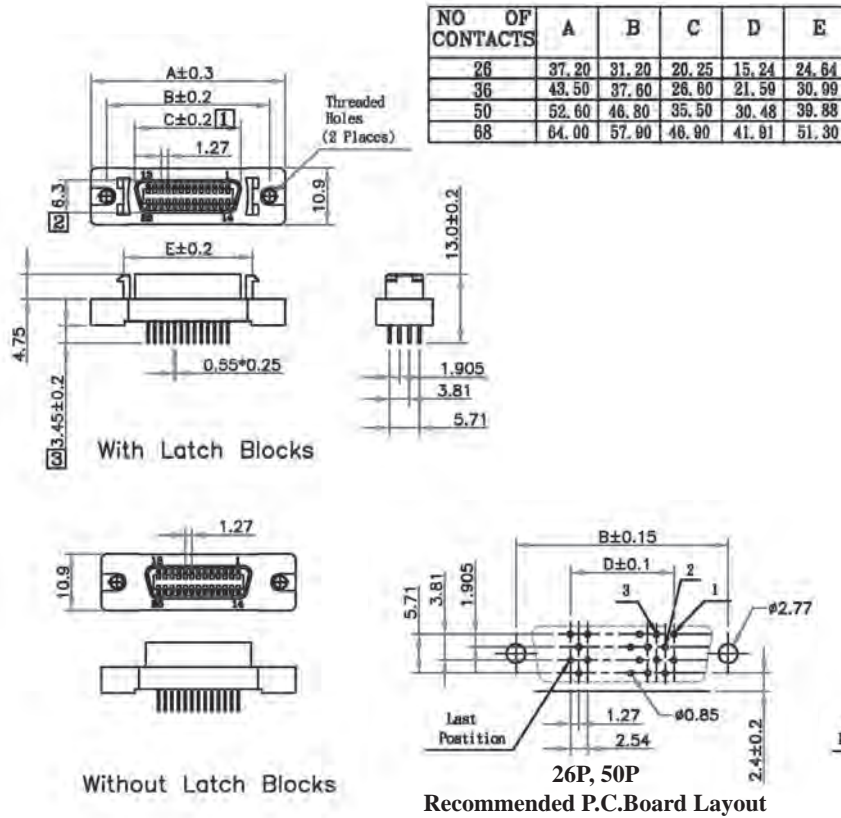
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5784 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{x}{3}$

- CONNECTOR TYPE:  
"84" FEMALE STRAIGHT DIP TYPE
- NO. OF CONTACTS:  
14, 20, 40, 100
- SHELL TYPE:  
"A" WITH LATCHES  
"B" W/O LATCHES

# HALF PITCH MINI RIBBON FEMALE CONNECTOR STRAIGHT PCB MOUNT TYPE (2)



## SPECIFICATIONS

**Current Rating:** 1 Amp  
**Dielectric Strength:** 500V AC for 1 Min.  
**Insulation Resistance:** 500MΩ Min.  
**Contact Resistance:** 35mΩ Max.  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

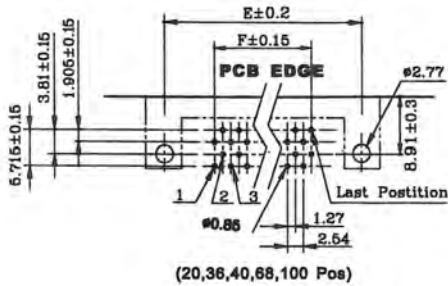
**Shell & Bracket:** Steel, Nickel or Tin  
 Plated Over Copper  
**Housing & Cover:** Plastic Thermoplastic,  
 PBT UL94V-0  
**Insulator:** PBT, UL94V-0  
**Pin Contact:** Phosphor Bronze, Gold  
 Selective Plated Over Tin  
**Boardlock:** Phosphor Bronze, Tin Plated  
 Over Copper  
 \*RoHS & REACH compliant.

## ORDERING INFORMATION:

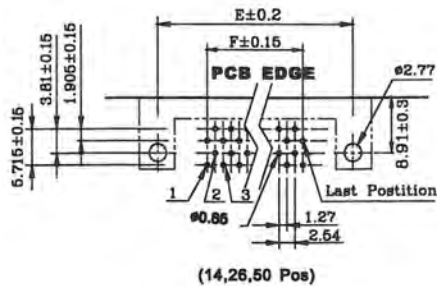
P/N 5784 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{x}{3}$

- CONNECTOR TYPE:  
"84" FEMALE STRAIGHT DIP TYPE
- NO. OF CONTACTS:  
26, 36, 50, 68
- SHELL TYPE:  
"A" WITH LATCHES  
"B" W/O LATCHES

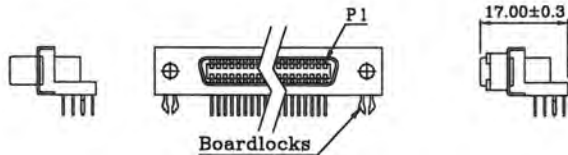
# HALF PITCH (1.27MM) MINI RIBBON FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



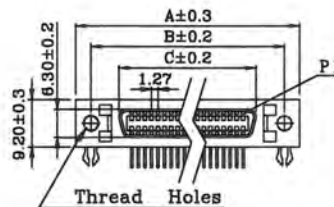
Recommended P.C.Board Layout



Recommended P.C.Board Layout



S Type



L Type

No. of Contacts	A	B	C	D	E	F
14	29.57	23.64	12.63	17.08	23.64	7.62
20	33.40	27.40	16.44	20.83	27.45	11.43
26	37.19	31.25	20.25	24.64	31.26	15.24
36	43.54	37.61	26.60	31.05	37.61	21.59
40	46.15	40.15	29.14	33.70	40.15	24.13
50	52.50	46.50	35.49	39.88	46.50	30.48
68	63.92	57.92	46.92	51.32	57.90	41.91
100	84.18	78.23	67.10	71.64	78.30	62.23

## SPECIFICATIONS

Current Rating: 1.0 Amp

Dielectric Withstanding: 500V AC

Contact Resistance: 35m OHMS Max.

Insulation Resistance: 500M OHMS Min

Operating Temperature: -55°C to +105°C

## MATERIALS

Housing: Plastic Thermoplastic P.B.T. UL94V-0, Black

Contacts: Copper Alloy, Gold Selective Plated

Front Shell: Steel, Nickel Plated Over Copper

Bracket Shell: Steel, Nickel Plated Over Copper

Boardlock: Copper Alloy, Tin Plated Over Copper

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 57F3 -  $\frac{X X X X}{T 2 3}$

1. NO. OF CONTACTS:

14, 20, 26, 36, 40, 50, 68, 100

2. BRACKET TYPE:

"L" LATCH BRACKET

"S" SCREW BRACKET

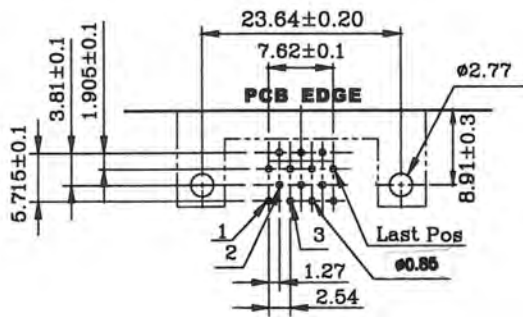
3. THREADED FINISH:

"1" #2-56

"2" #4-40

"3" M2.6

# HALF PITCH (1.27MM) MINI RIBBON FEMALE CONNECTOR RIGHT ANGLE DIP TYPE WITH HOOK



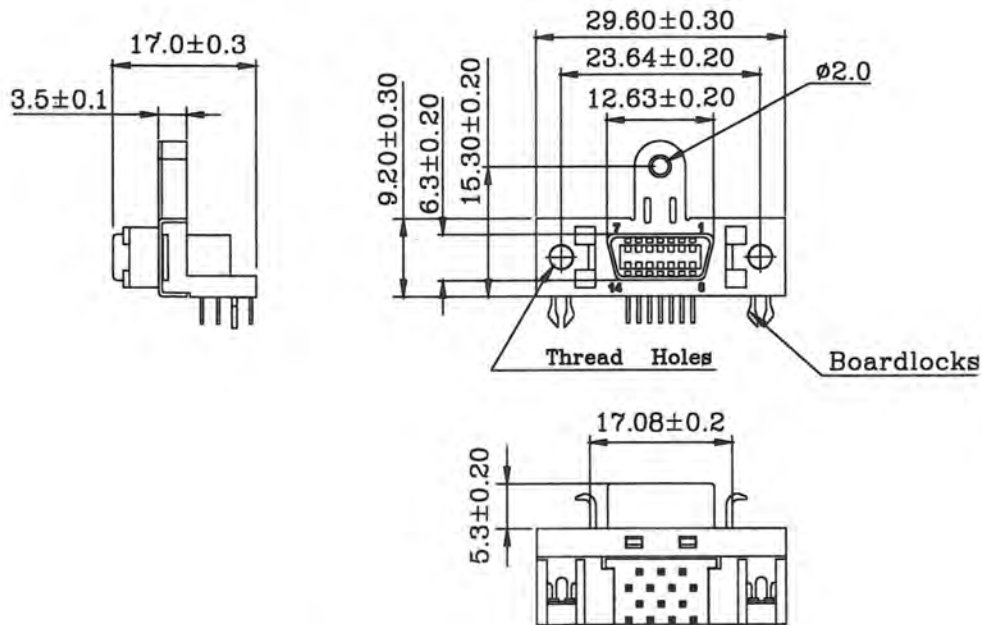
Recommended P.C.Board Layout

## SPECIFICATIONS

**Current Rating:** 1.0 Amp  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 35m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

**Housing:** Plastic Thermoplastic P.B.T. UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
**Front Shell:** Steel, Nickel Plated Over Copper  
**Bracket Shell:** Steel, Nickel Plated Over Copper  
**Boardlock:** Copper Alloy, Tin Plated Over Copper  
 \*RoHS & REACH compliant.

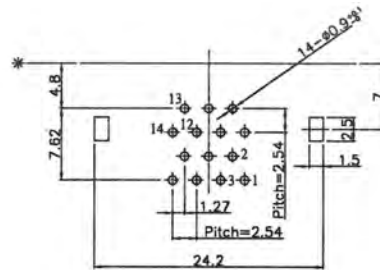
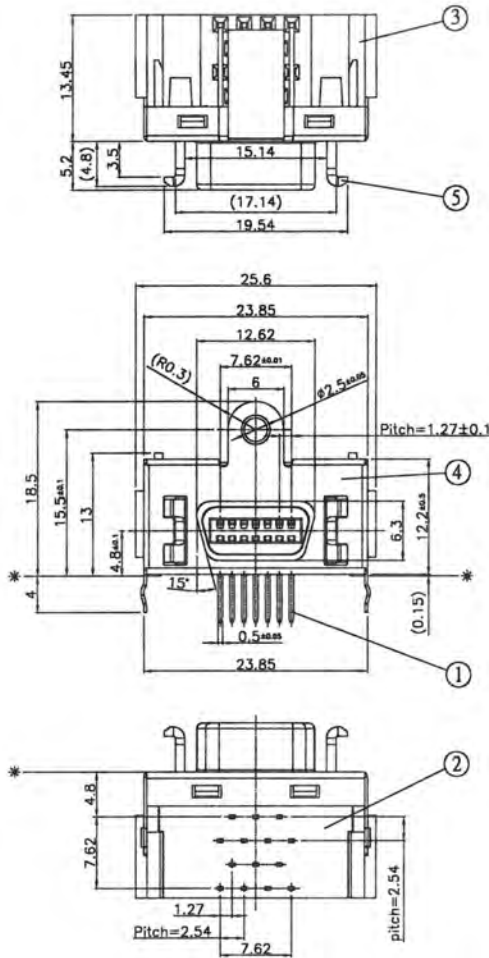


## ORDERING INFORMATION:

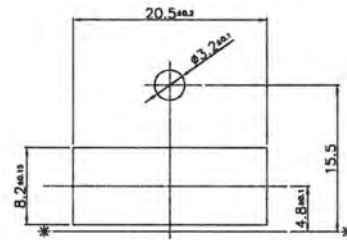
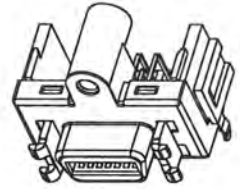
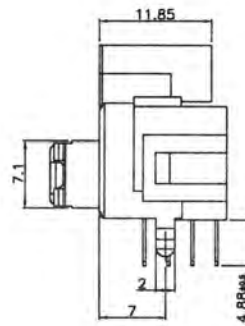
P/N 57F4 -  $\frac{XX}{I} \frac{XX}{2} \frac{X}{3}$

1. NO. OF CONTACTS:  
14
2. BRACKET TYPE:  
"L" LATCH BRACKET  
"S" SCREW BRACKET
3. THREADED FINISH:  
"1" #2-56  
"2" #4-40  
"3" M2.6

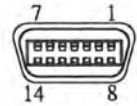
# HALF PITCH (1.27MM) MINI RIBBON FEMALE CONNECTOR RIGHT ANGLR DIP TYPE WITH HOOK



Recommended P.C. Board Layout  
(Bottom View T=1.6)



Dimension Of Panel Holes  
T=0.8~1.0



## MATERIALS

Terminal: PBT+15%G.F. Black

Insulator: PA9T. Black

Outer Shell: Nickel Plated

Hook: Nickel Plated

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 57 F 9 -  $\frac{14}{T} \frac{H}{2}$

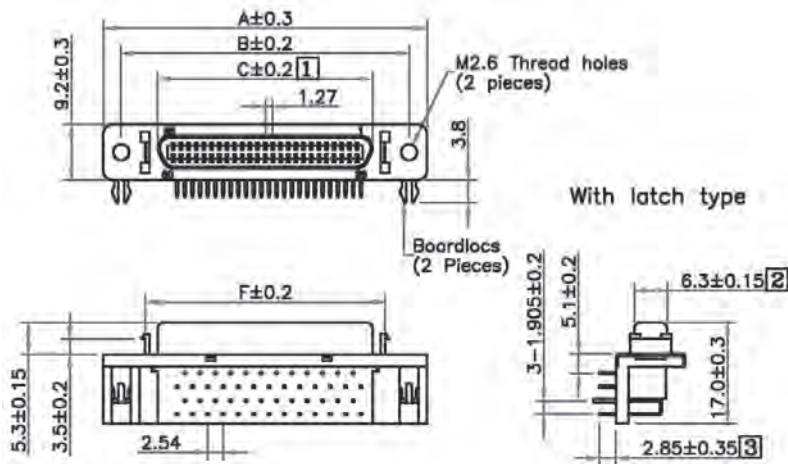
1. NO. OF CONTACTS:

14

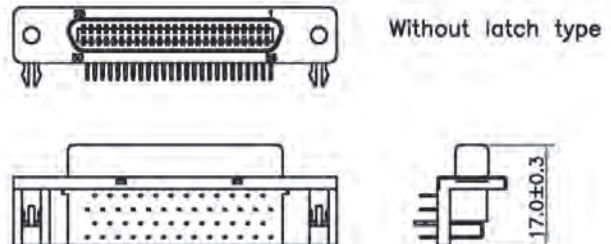
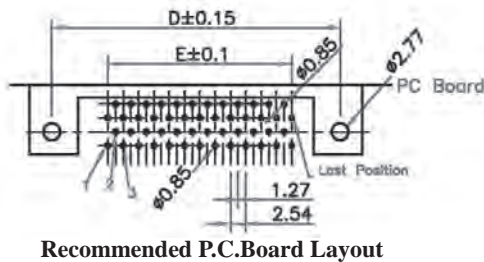
2. ACCESSORY:

"H" WITH HOOK

# HALF PITCH MINI RIBBON FEMALE CONNECTOR RIGHT ANGLE PCB MOUNT TYPE



POSITION	A	B	C	D	E	F
14	29.57	23.64	12.63	23.64	7.62	17.08
26	37.19	31.26	20.25	31.26	15.24	24.64
50	52.50	46.50	35.49	46.50	30.48	39.88



## SPECIFICATIONS

**Current Rating:** 1 Amp  
**Dielectric Strength:** 500V AC for 1 Min.  
**Insulation Resistance:** 500MΩ Min.  
**Contact Resistance:** 35mΩ Max.  
**Operating Temperature:** -55°C to +105°C

## MATERIALS

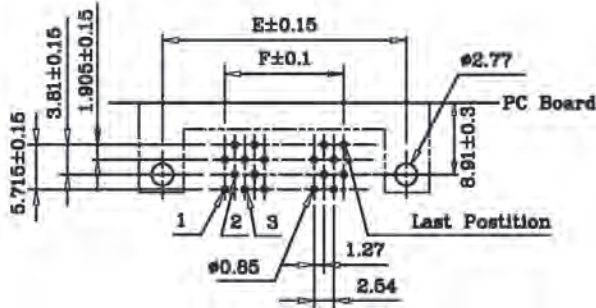
**Shell & Bracket:** Steel, Nickel or Tin  
 Plated Over Copper  
**Housing & Cover:** Plastic Thermoplastic,  
 PBT UL94V-0  
**Insulator:** PBT, UL94V-0  
**Pin Contact:** Phosphor Bronze, Gold  
 Selective Plated Over Tin  
**Boardlock:** Brass, Tin Plated Over Copper  
 \*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N 5786 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{x}{3}$

- CONNECTOR TYPE:  
"86" FEMALE RIGHT ANGLE DIP TYPE
- NO. OF CONTACTS:  
14, 26, 50
- SHELL TYPE:  
"A" WITH LATCHES  
"B" W/O LATCHES

# HALF PITCH MINI RIBBON FEMALE CONNECTOR RIGHT ANGLE PCB MOUNT TYPE



Recommended P.C.Board Layout

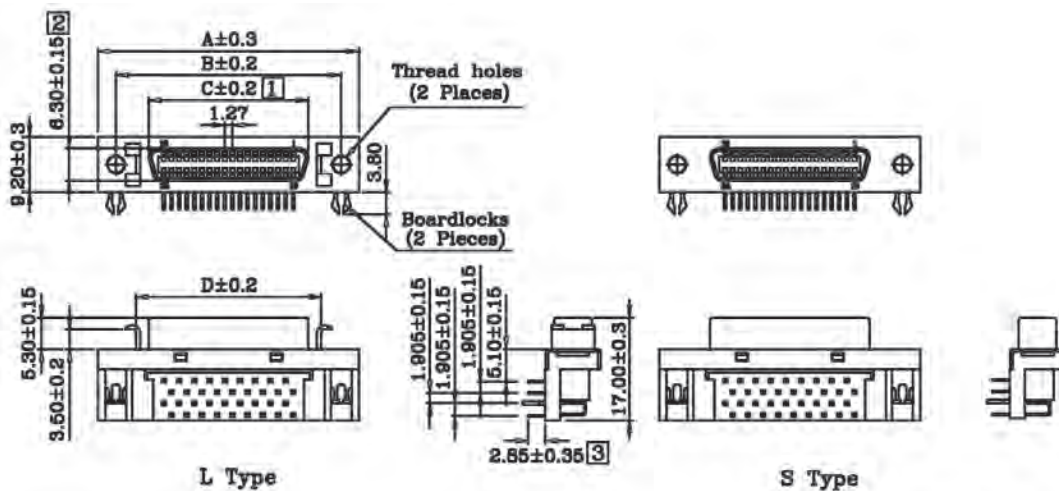
NO OF CONTACTS	A	B	C	D	E	F
20	33.40	27.45	18.44	20.83	27.45	11.43
36	43.54	37.61	26.60	31.05	37.61	21.59
40	46.00	40.15	29.14	33.70	40.15	24.13
68	64.00	57.93	46.92	51.32	57.93	41.91
100	84.18	78.25	67.14	71.84	78.25	62.23

## SPECIFICATIONS

Current Rating: 1 Amp  
 Dielectric Strength: 500V AC for 1 Min.  
 Insulation Resistance: 500MΩ Min.  
 Contact Resistance: 35mΩ Max.  
 Operating Temperature: -55°C to +105°C

## MATERIALS

Front Shell: Steel Nickel Plated Over Copper  
 Housing & Cover: Plastic Thermoplastic, PBT UL94V-0  
 Insulator: PBT, UL94V-0  
 Pin Contact: Phosphor Bronze, Gold Selective Plated  
 Boardlock: Brass, Tin Plated Over Copper  
 Bracket: Steel Nickel Plated Over Copper  
 \*RoHS & REACH compliant.

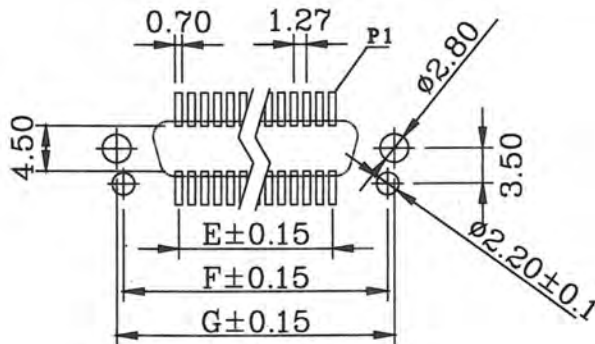
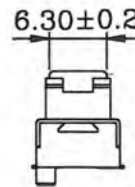
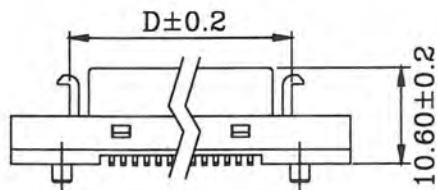
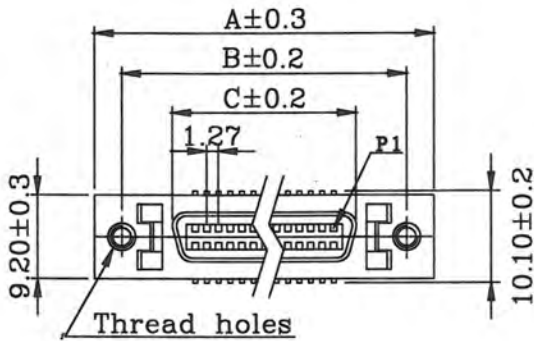


## ORDERING INFORMATION:

P/N 5786 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{x}{3}$

- CONNECTOR TYPE:  
"86" FEMALE RIGHT ANGLE DIP TYPE
- NO. OF CONTACTS:  
20, 36, 40, 68, 100
- SHELL TYPE:  
"A" WITH LATCHES  
"B" W/O LATCHES

# HALF PITCH (1.27MM) MINI RIBBON FEMALE CONNECTOR VERTICAL SMT TYPE



Recommended P.C.Board Layout

## SPECIFICATIONS

**Current Rating:** 0.5 Amp  
**Dielectric Withstanding:** 150V AC  
**Contact Resistance:** 40m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** Plastic Thermoplastic Nylon PA9T UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
**Front Shell:** Steel, Nickel Plated Over Copper  
**Bracket:** Steel, Nickel Plated Over Copper  
 \*RoHS & REACH compliant.

No. of Contacts	A	B	C	D	E	F	G
20	33.42	27.44	16.44	20.65	11.43	22.28	27.44
26	37.23	31.25	20.14	24.69	15.24	26.13	31.25
36	43.88	37.65	26.53	31.00	21.59	32.52	37.65

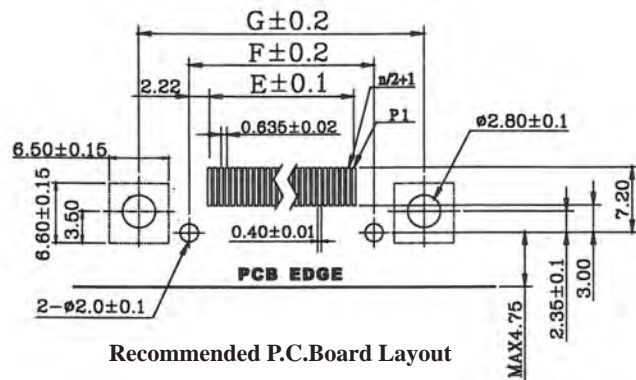
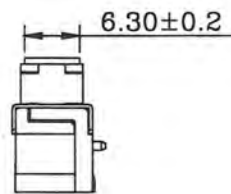
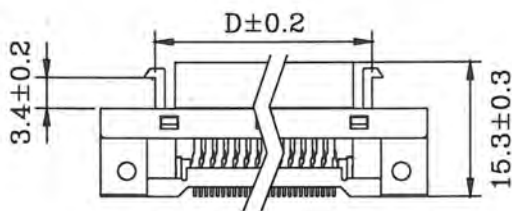
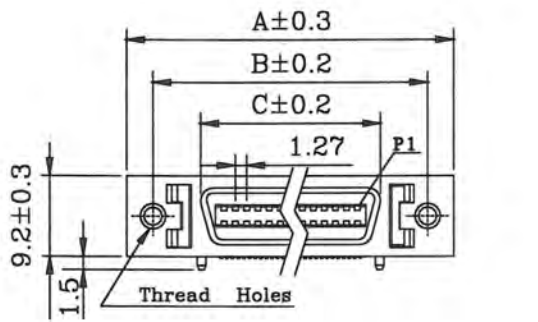
## ORDERING INFORMATION:

P/N 57F1 -  $\frac{xx}{I} \frac{L}{23} x$

1. NO. OF CONTACTS:  
20, 26, 36
2. BRACKET TYPE:  
"L" LATCH BRACKET
3. THREADED FINISH:  
"1" #2-56  
"2" #4-40  
"3" M2.6  
"4" M2.5



# HALF PITCH (1.27MM) MINI RIBBON FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



Recommended P.C.Board Layout

## SPECIFICATIONS

**Current Rating:** 0.5 Amp  
**Dielectric Withstanding:** 150V AC  
**Contact Resistance:** 40m OHMS Max.  
**Insulation Resistance:** 500M OHMS Min  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** Plastic Thermoplastic Nylon PA9T UL94V-0, Black  
**Contacts:** Copper Alloy, Gold Selective Plated  
**Front Shell:** Steel, Nickel Plated Over Copper  
**Bracket:** Zinc Alloy, Nickel Plated Over Copper  
 \*RoHS & REACH compliant.

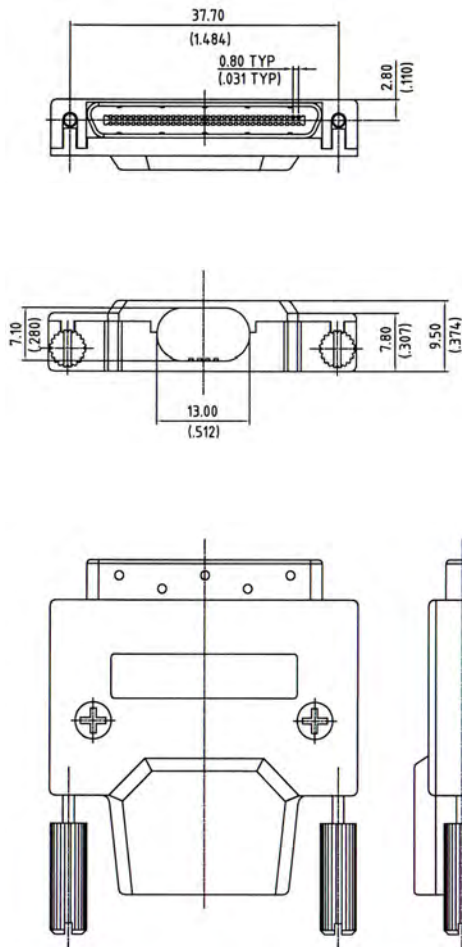
No. of Contacts	A	B	C	D	E	F	G
20	33.40	27.44	16.44	20.83	12.07	16.51	27.44
26	37.19	31.25	20.25	24.64	15.88	20.32	31.25
36	43.54	37.60	26.60	31.05	22.23	26.67	37.60

## ORDERING INFORMATION:

P/N 57 F 2 -  $\frac{x}{I} \frac{x}{2} \frac{L}{3} \frac{x}{3}$

1. NO. OF CONTACTS:  
20, 26, 36
2. BRACKET TYPE:  
"L" LATCH BRACKET
3. THREADED FINISH:  
"1" #2-56  
"2" #4-40  
"3" M2.6  
"4" M2.5

## 0.80MM(0.032") VHDC 68 PIN MALE CONNECTOR IDC FLAT CABLE TYPE



### SPECIFICATIONS

**Current Rating:** 0.3 Amperes

**Contact Resistance:** 50mΩ Max.

**Insulation Resistance:** 500MΩ Min.

**Dielectric Voltage:** 250V AC at 1 Minute

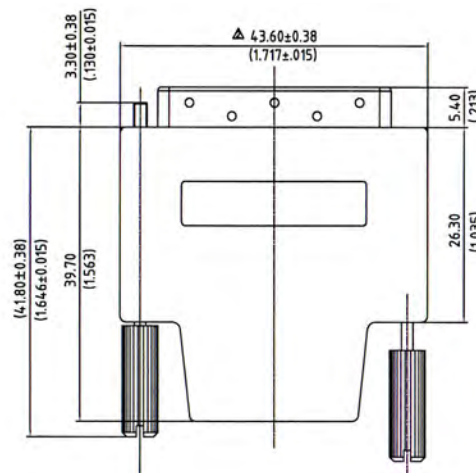
**Operating Temperature:** -55°C to +85°C

### MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Phosphor Bronze, Gold over Nickel

\*RoHS & REACH compliant.



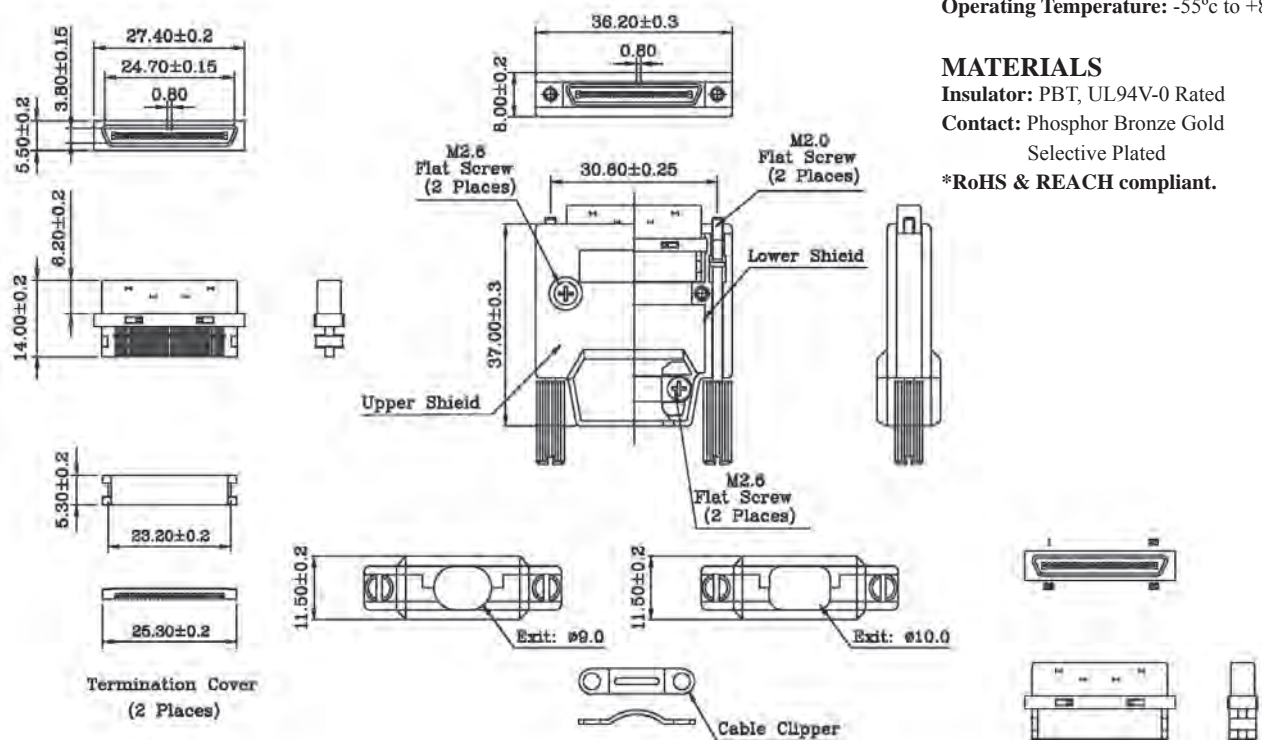
### ORDERING INFORMATION:

P/N VHDC -  $\frac{68}{1 \ 2} M$

1. NO. OF CONTACTS:  
68
2. CONNECTOR TYPE:  
"M" MALE

NOTE: P/N VHDC-68M INCLUDING 68 PIN  
CONNECTOR + HOUSING AS SHOWN  
IN THE ABOVE DRAWING.  
ENTRY HOLE: 13.0\*7.1MM

## 0.80MM(0.032") VHDC 50 PIN MALE CONNECTOR IDC ASSEMBLY TYPE



### SPECIFICATIONS

Current Rating: 0.5 Amp  
 Contact Resistance: 35mΩ Max.  
 Insulation Resistance: 500MΩ Min.  
 Dielectric Voltage: 250V AC  
 Operating Temperature: -55°C to +85°C

### MATERIALS

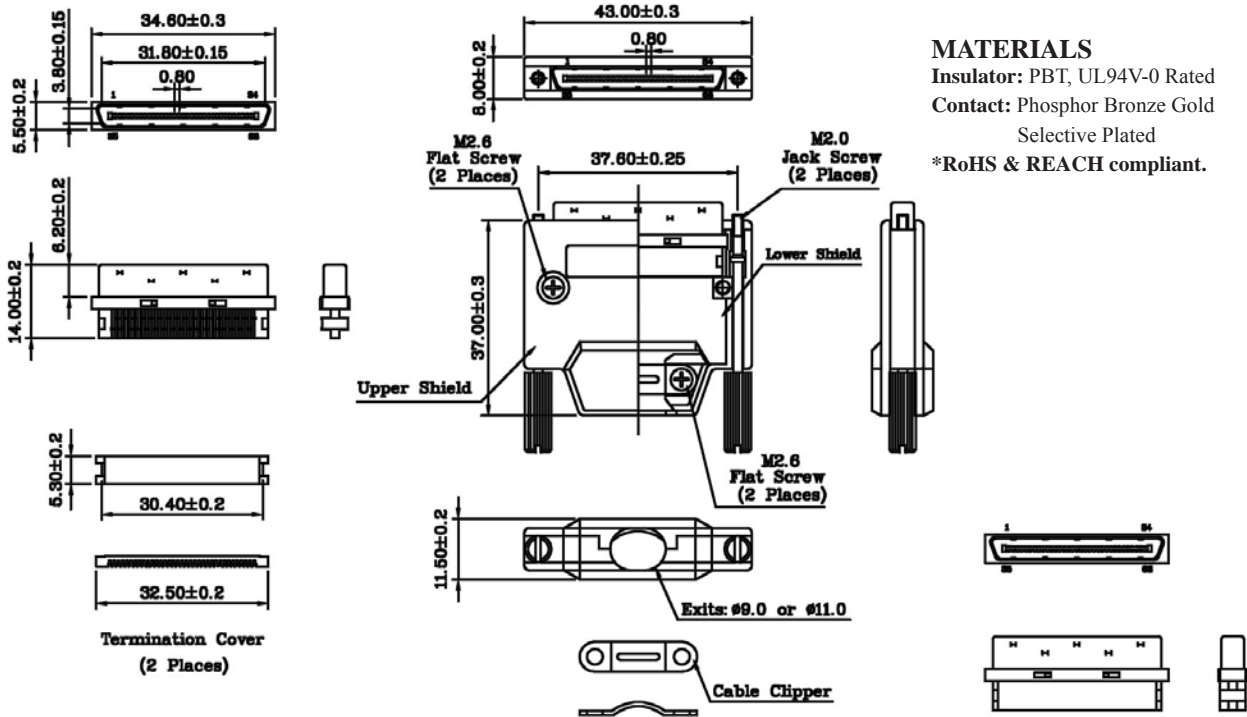
Insulator: PBT, UL94V-0 Rated  
 Contact: Phosphor Bronze Gold  
 Selective Plated  
 \*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N V H D C -  $\frac{5}{1} \frac{0}{2} \frac{M}{3} \frac{x}{4} x$

1. NO. OF CONTACTS:  
50
2. WIRE HOLDER SIZE:  
"1" 0.61MM  
"8" 0.68MM
3. ENTRY HOLE SIZE:  
"A" Ø 9.0MM  
"B" Ø 10.0MM

## 0.80MM(0.032") VHDC 68 PIN MALE CONNECTOR IDC ASSEMBLY TYPE



### SPECIFICATIONS

Current Rating: 0.5 Amp  
 Contact Resistance: 35mΩ Max.  
 Insulation Resistance: 500MΩ Min.  
 Dielectric Voltage: 250V AC  
 Operating Temperature: -55°C to +85°C

### MATERIALS

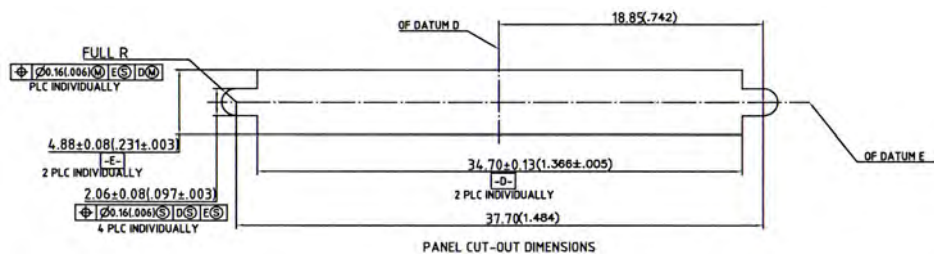
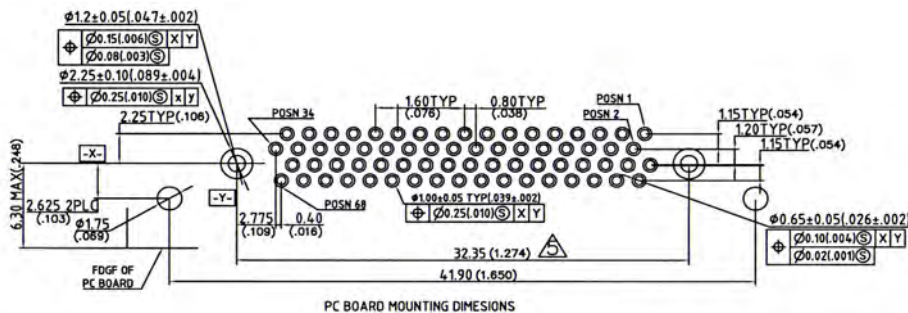
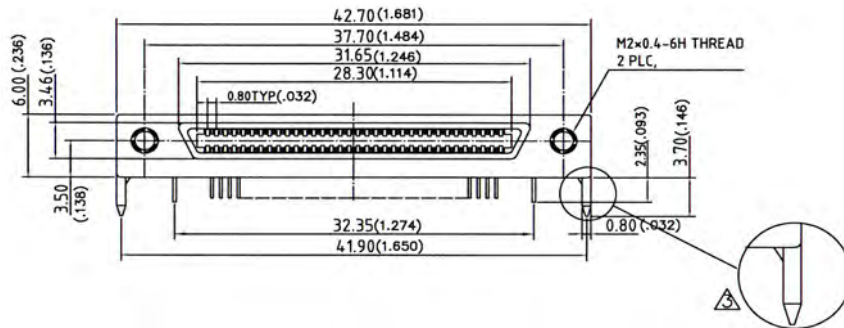
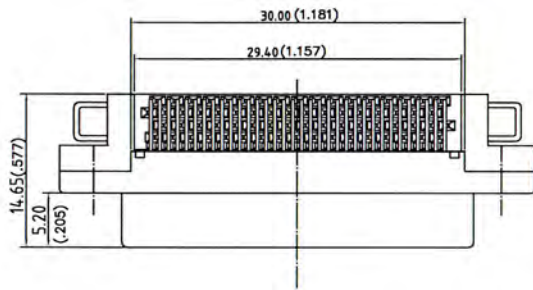
Insulator: PBT, UL94V-0 Rated  
 Contact: Phosphor Bronze Gold  
 Selective Plated  
 \*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N V H D C -  $\frac{68}{1} \frac{M}{2} \frac{x}{3} \frac{x}{4}$

1. NO. OF CONTACTS:  
68
2. WIRE HOLDER SIZE:  
"1" 0.61MM  
"8" 0.68MM
3. ENTRY HOLE SIZE:  
"A" Ø 9.0MM  
"B" Ø 10.0MM

# 0.80MM(0.032") VHDC 68 PIN FEMALE CONNECTOR RIGHT ANGLE TYPE



## SPECIFICATIONS

**Current Rating:** 0.3 Amperes

**Contact Resistance:** 50mΩ Max.

**Insulation Resistance:** 500MΩ Min.

**Dielectric Voltage:** 250V AC at 1 Minute

**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Insulator:** PBT, UL94V-0 Rated

**Contact:** Phosphor Bronze, Gold over Nickel

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N V H D C -  $\frac{68}{1} \frac{F}{2}$

1. NO. OF CONTACTS:

68

2. CONNECTOR TYPE:

"F" FEMALE

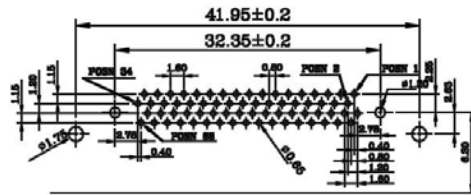
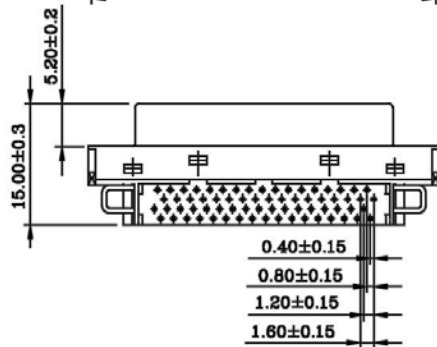
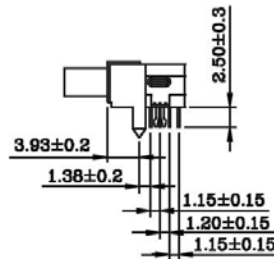
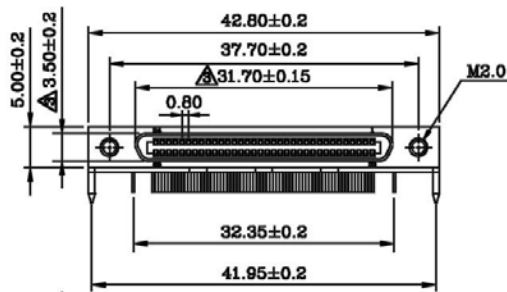
# 0.80MM(0.032") VHDC 68 PIN FEMALE CONNECTOR RIGHT ANGLE PCB MOUNT DIP TYPE

## SPECIFICATIONS

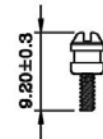
Current Rating: 0.5 Amp  
 Contact Resistance: 35mΩ Max.  
 Insulation Resistance: 500MΩ Min.  
 Dielectric Voltage: 250V AC  
 Operating Temperature: -55°C to +85°C

## MATERIALS

Insulator: PA66, UL94V-0 Rated  
 Contact: Phosphor Bronze Gold  
 Selective Plated  
 \*RoHS & REACH compliant.



Recommended P.C.Board Layout



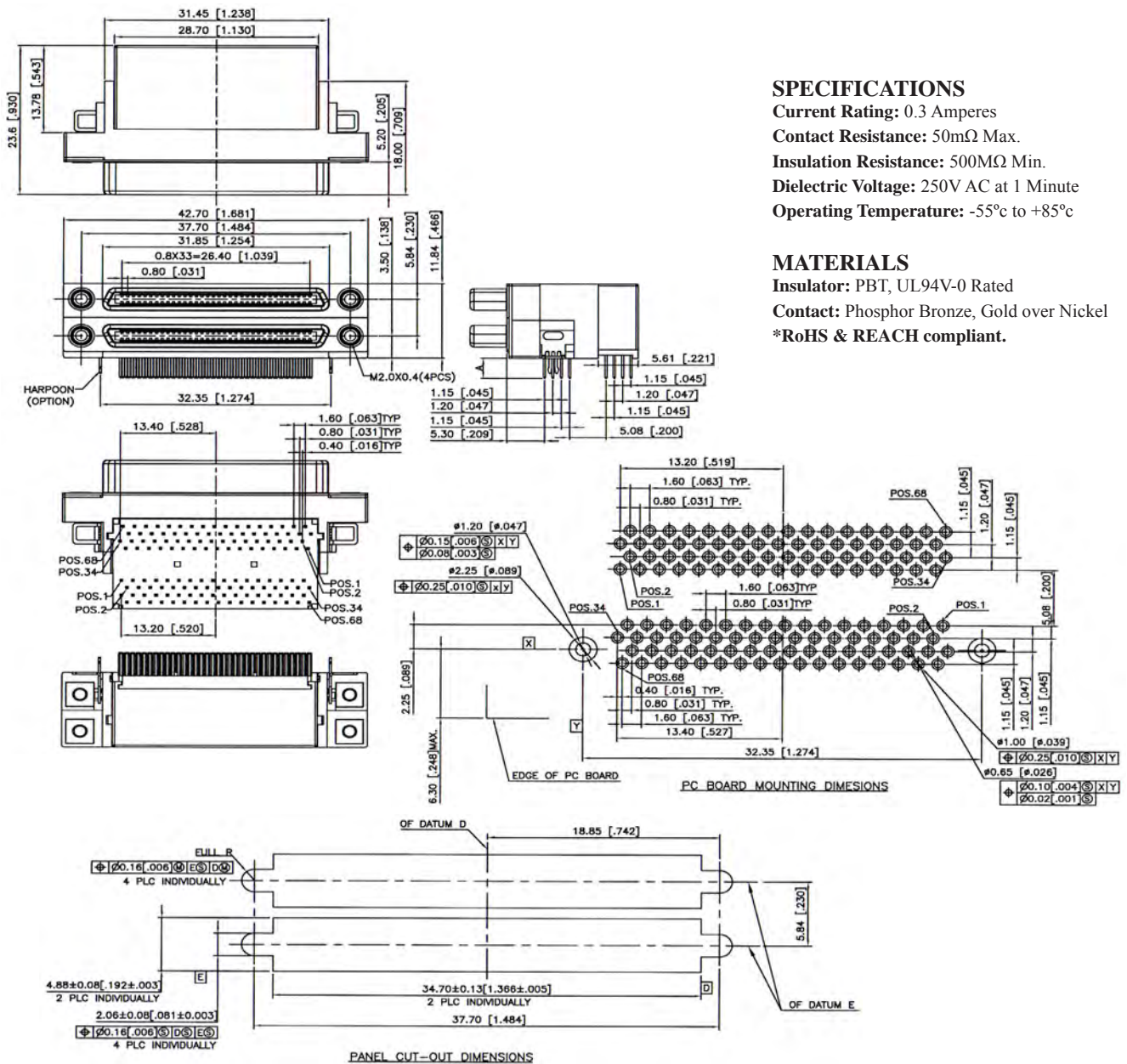
Screw Nut\*2

## ORDERING INFORMATION:

P/N V H D C -  $\frac{68}{1}$  F  $\frac{2}{23}$  N

1. NO. OF CONTACTS:  
68
2. THREADED TYPE:  
"2" M2.0MM
3. SHELL MOUNTING TYPE:  
"N" WITH NUTS M2.0 THREADED

# 0.80MM(0.032") DUAL PORT VHDC 68 PIN RIGHT ANGLE TYPE



## SPECIFICATIONS

- Current Rating: 0.3 Amperes
- Contact Resistance: 50mΩ Max.
- Insulation Resistance: 500MΩ Min.
- Dielectric Voltage: 250V AC at 1 Minute
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Insulator: PBT, UL94V-0 Rated
- Contact: Phosphor Bronze, Gold over Nickel
- \*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N DP-VHDC 68 FF  
1 2

- 1. NO. OF CONTACTS:  
68
- 2. CONNECTOR TYPE:  
"FF" FEMALE TO FEMALE

# SATA 3.0 7 PIN MALE CONNECTOR STRAIGHT DIP TYPE

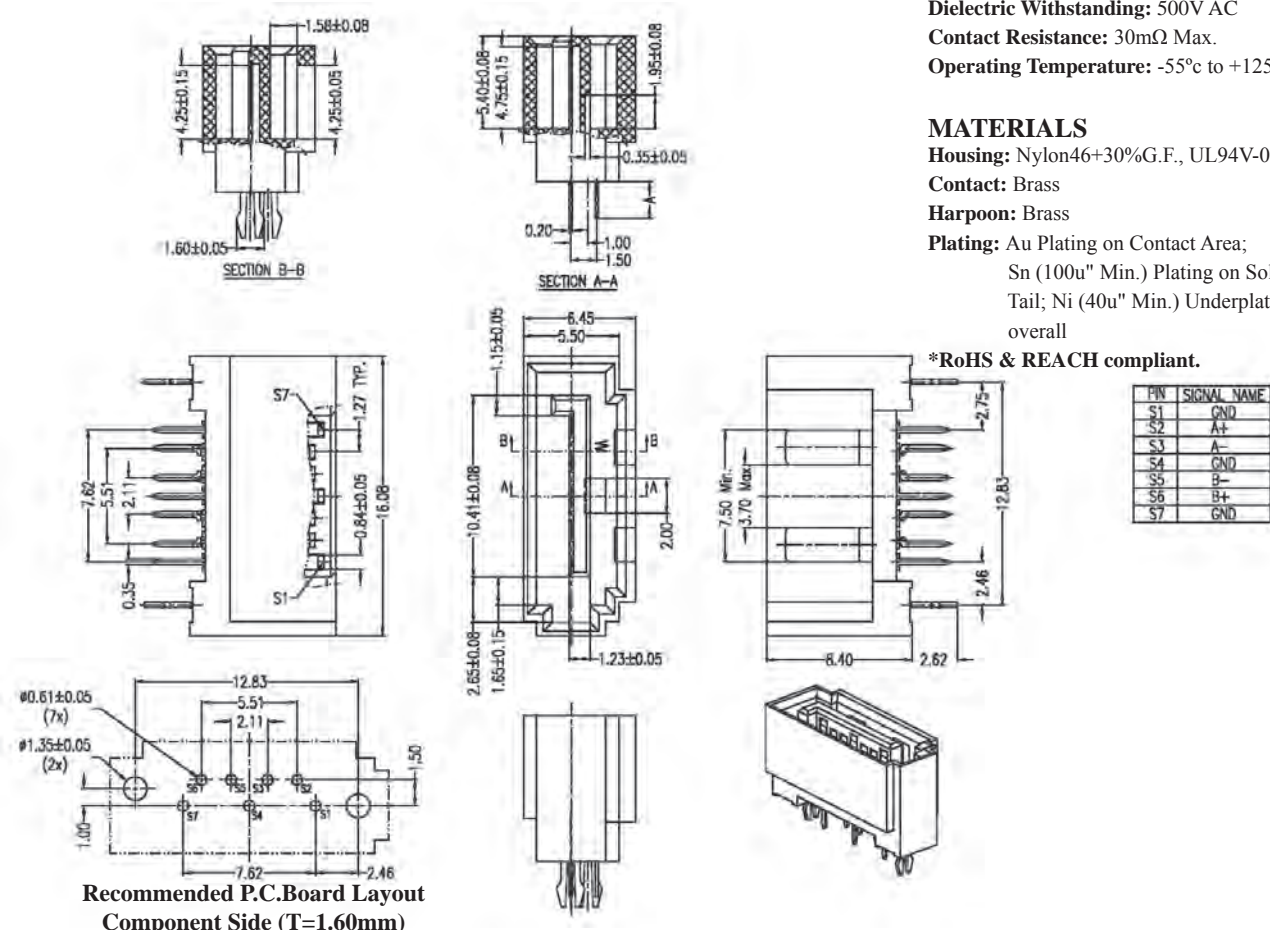
## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Housing:** Nylon46+30%G.F., UL94V-0  
**Contact:** Brass  
**Harpoon:** Brass  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

\*RoHS & REACH compliant.



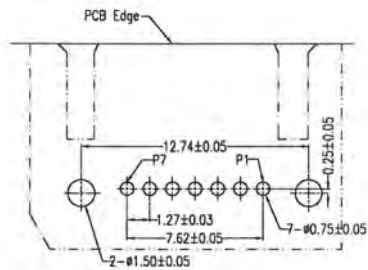
## ORDERING INFORMATION:

P/N S A T A 07 - 3 H M X X X  
 I 2 3 4 5

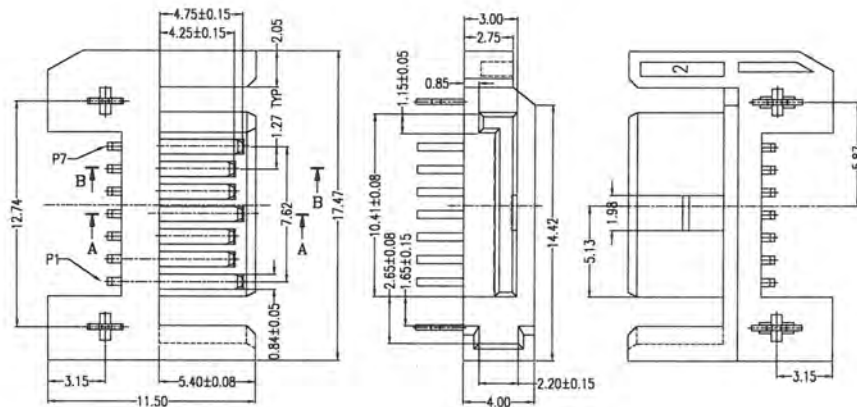
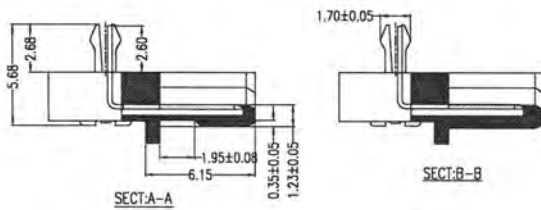
- NO. OF CONTACTS:  
"07" 7P
- CONNECTOR CODE:  
"3H" SERIAL ATA 3.0 TYPE
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK  
"W" WHITE
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD



# SERIAL ATA (SATA) 7 PIN MALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout  
Top View



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Contact Material:** Phosphor Bronze

**Insulator:** LCP, UL94V-0

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

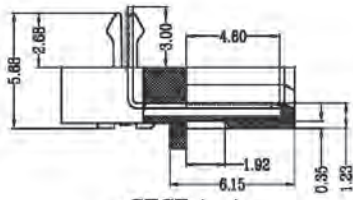
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

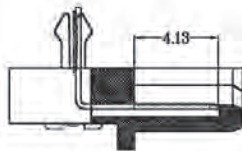
P/N S A T A 07 - A1 M R xx  
1 2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"A1" SATA FOR CARD
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"R" RED 187C
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

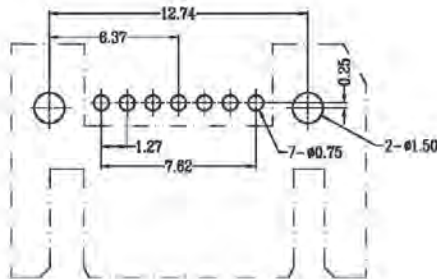
## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR RIGHT ANGLE DIP TYPE



SECT:A-A



SECT:B-B



Recommended P.C.Board Layout

### SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +125°C

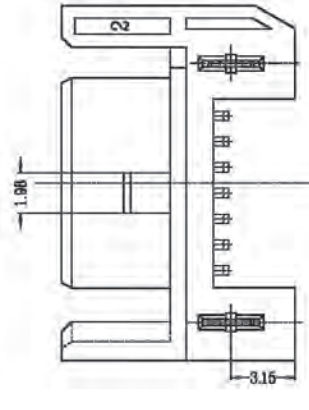
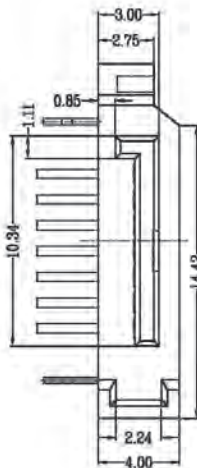
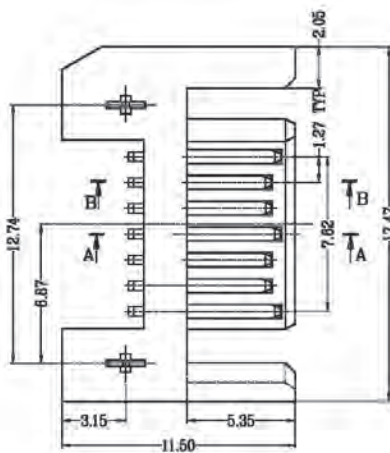
### MATERIALS

**Contact Material:** Phosphor Bronze

**Insulator:** LCP, UL94V-0

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

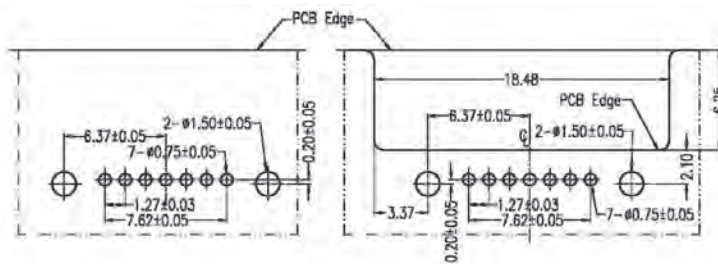


### ORDERING INFORMATION:

P/N S A T A 07 - A2 M B X X  
1 2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"A2" SATA FOR CARD
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7 PIN MALE CONNECTOR REVERSE MOUNT RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout  
Top View (Solder Length 3.64)

Recommended P.C.Board Layout  
Top View (Solder Length 2.60)

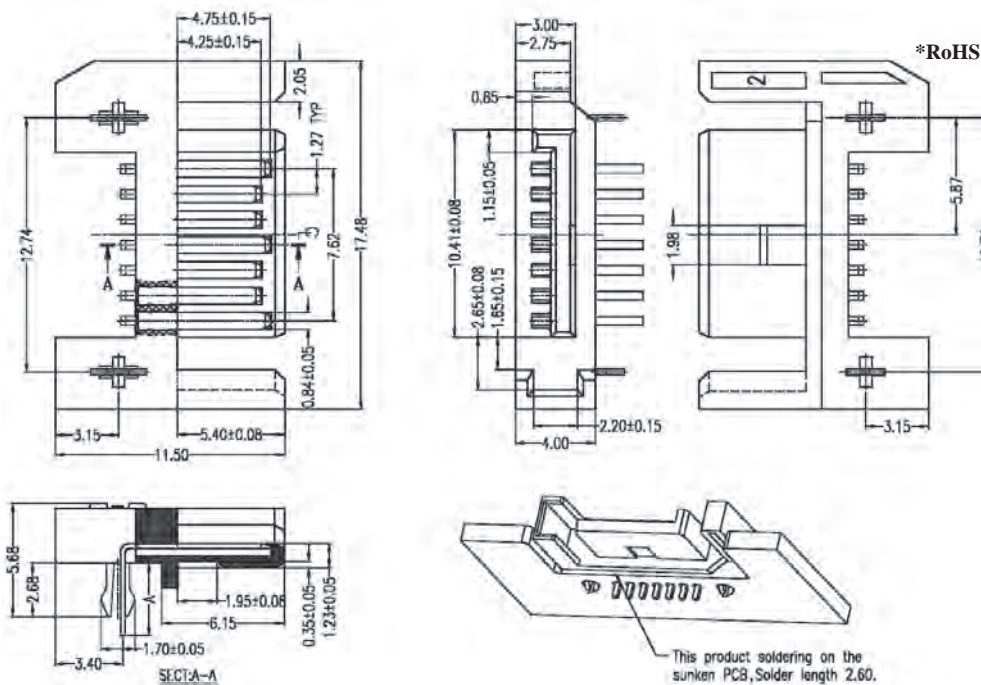
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Contact Material: Phosphor Bronze
- Insulator: LCP, UL94V-0
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

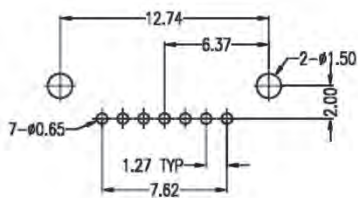


## ORDERING INFORMATION:

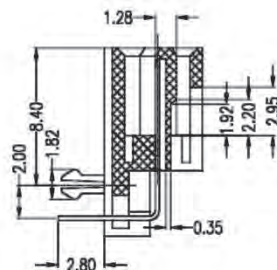
P/N S A T A  $\frac{07}{1}$  -  $\frac{xx}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"A3" DIM. A=2.60MM SATA FOR CARD  
"A4" DIM. A=3.64MM SATA FOR CARD
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C. Board Layout



SECT B-B

### SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +125°C

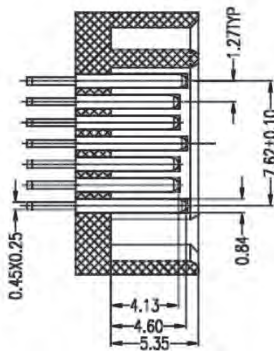
### MATERIALS

**Contact Material:** Phosphor Bronze

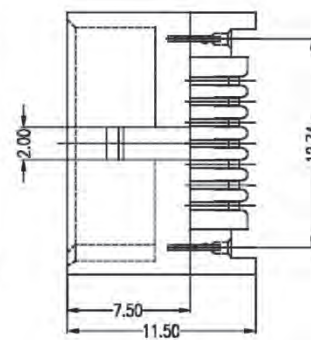
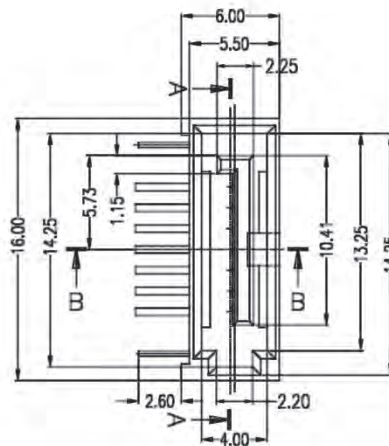
**Insulator:** LCP, UL94V-0

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



SECT A-A



### ORDERING INFORMATION:

P/N S A T A 07 - A5 M B X X  
 1 2 3 4 5

1. NO. OF CONTACTS:

"07" 7P

2. CONNECTOR CODE:

"A5" SATA FOR CARD

3. CONTACT TYPE:

"M" MALE

4. INSULATOR COLOR:

"B" BLACK

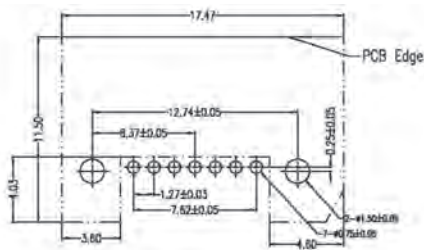
5. CONTACT FINISH:

"01" GOLD FLASH

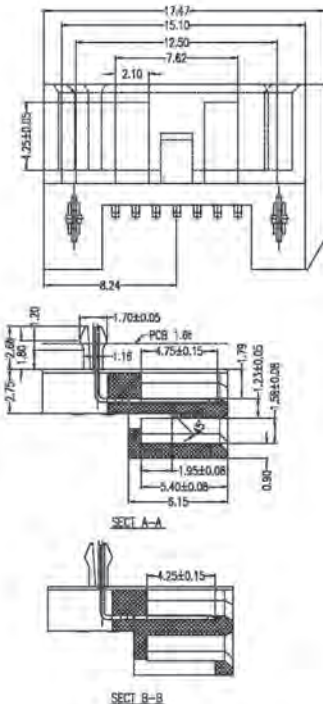
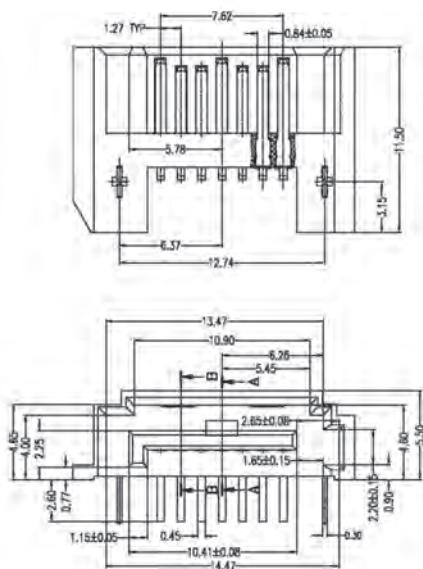
"15" 15 MICRINCH GOLD

"30" 30 MICRINCH GOLD

# SERIAL ATA (SATA) 7 PIN MALE CONNECTOR LIE SEMI BOX DOUBLE HOLE R/A DIP TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Contact Material: Phosphor Bronze
- Insulator: LCP, UL94V-0
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

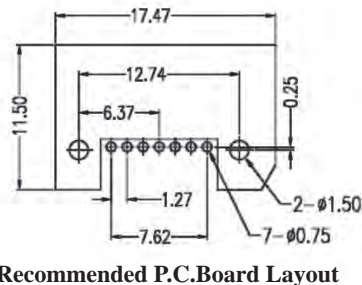
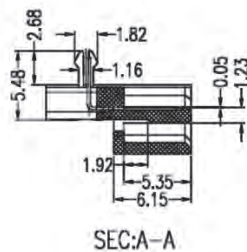
## ORDERING INFORMATION:

P/N S A T A  $\frac{07}{1}$  -  $\frac{A6}{2}$   $\frac{M}{3}$   $\frac{X}{4}$   $\frac{X}{5}$

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"A6" SEMI BOX DOUBLE HOLE DIP TYPE
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK  
"Y" YELLOW  
"W" WHITE

5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7 PIN MALE CONNECTOR HALF SHIELD DOUBLE HOLE R/A DIP TYPE

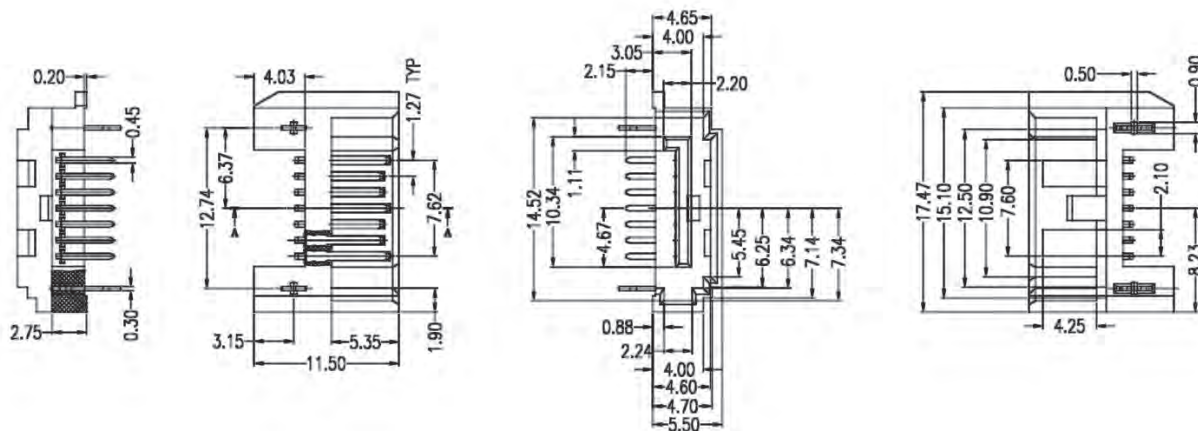


## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Contact Material:** Phosphor Bronze  
**Insulator:** LCP, UL94V-0  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail  
**\*RoHS & REACH compliant.**

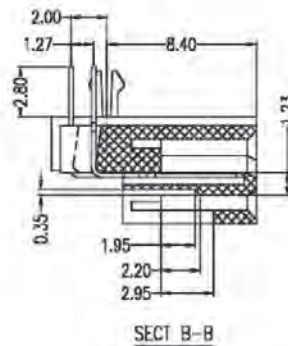
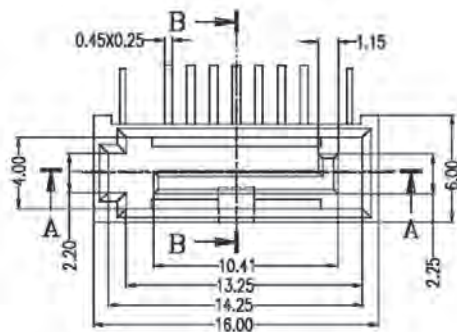


## ORDERING INFORMATION:

**P/N S A T A 07 - A 7 M X X X**  
**1 2 3 4 5**

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"A7" SEMI BOX DOUBLE HOLE DIP TYPE
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK  
"Y" YELLOW
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7 PIN MALE CONNECTOR DOUBLE ROW RIGHT ANGLE DIP TYPE



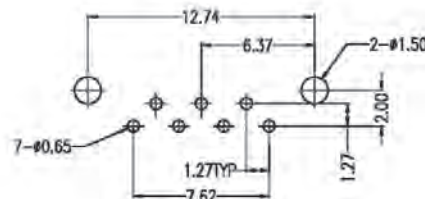
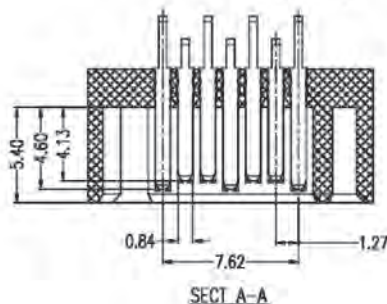
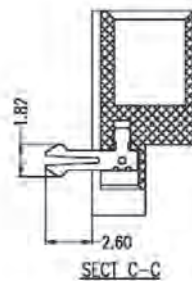
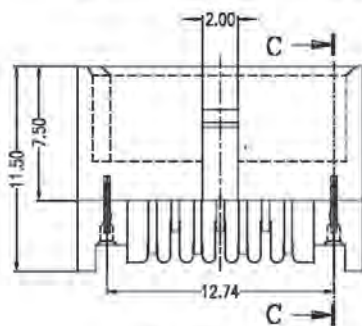
## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Contact Material:** Brass  
**Insulator:** LCP, UL94V-0  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



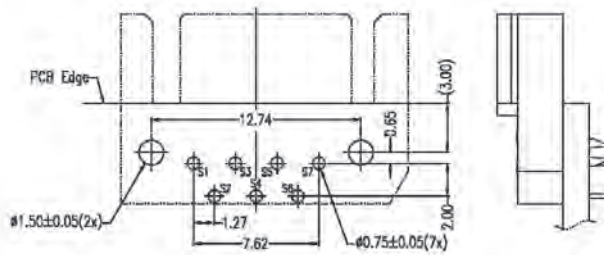
Recommended P.C. Board Layout

## ORDERING INFORMATION:

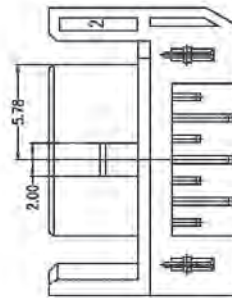
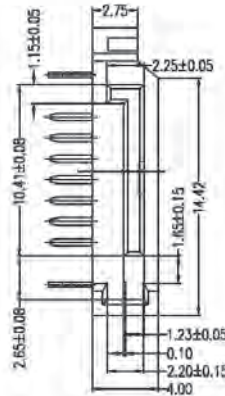
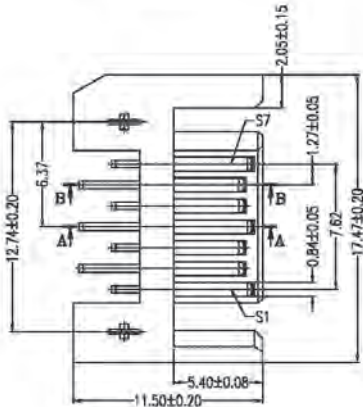
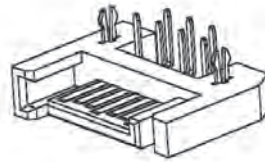
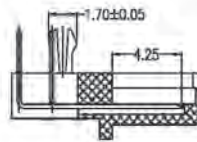
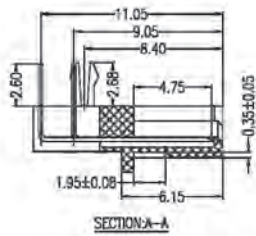
P/N S A T A 07 - A 8 M B x x  
1 2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"A8" SATA FOR CARD
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7 PIN MALE CONNECTOR DOUBLE ROW RIGHT ANGLE DIP TYPE



**Recommended P.C.Board Layout  
Component Side (T=1.60mm)**



Pin	SIGNAL NAME
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND

## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Contact Material:** Brass  
**Insulator:** LCP, UL94V-0  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

\*RoHS & REACH compliant.

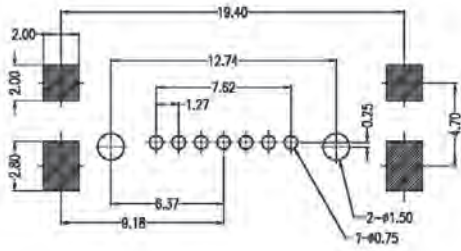
## ORDERING INFORMATION:

**P/N S A T A 07 - A 9 M B x x**  
**1 2 3 4 5**

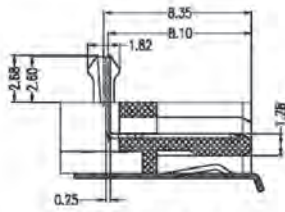
1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"A9" SATA FOR CARD
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD



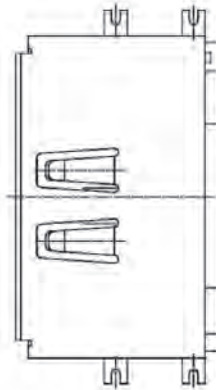
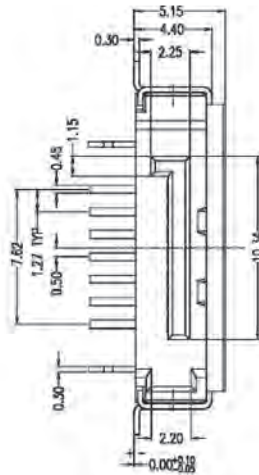
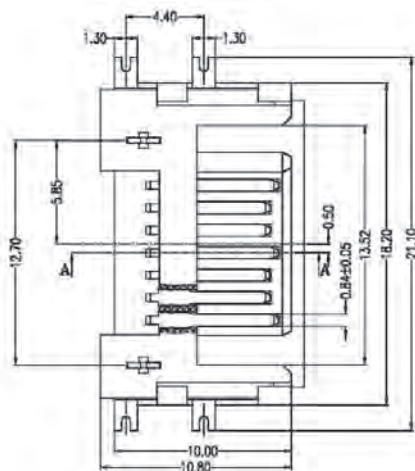
## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR IRION HULL R/A DIP TYPE



Recommended P.C.Board Layout



SECT A-A



### SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Contact Material:** Phosphor Bronze

**Insulator:** LCP, UL94V-0

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

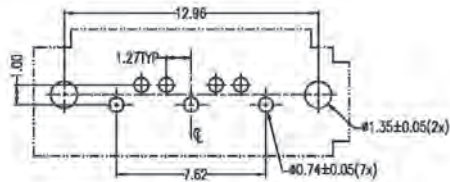
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

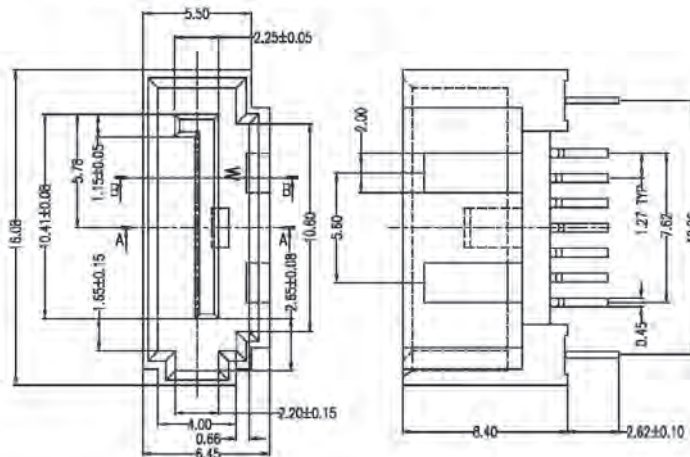
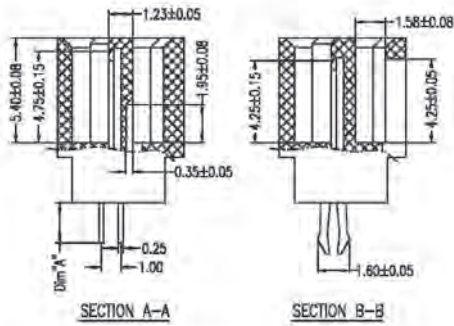
P/N S A T A 07 - C 2 M B x x  
 I 2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"C2" SATA FOR CARD
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7 PIN MALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C.Board Layout  
Component Side (T=1.60mm)



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Contact Material:** Brass  
**Insulator:** NY6T, UL94V-0  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

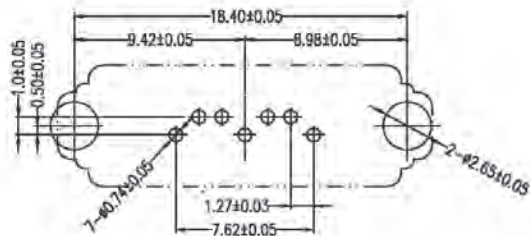
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

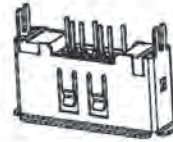
P/N S A T A  $\frac{07}{1}$  -  $\frac{xx}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"H1" DIM. A=2.15~2.25MM FOR MOTHER  
"H2" DIM. A=3.30MM FOR MOTHER
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)



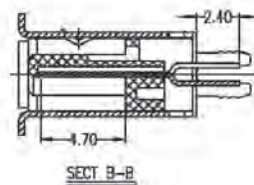
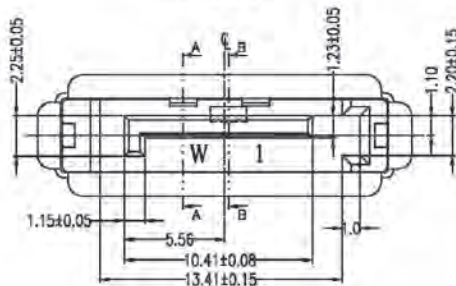
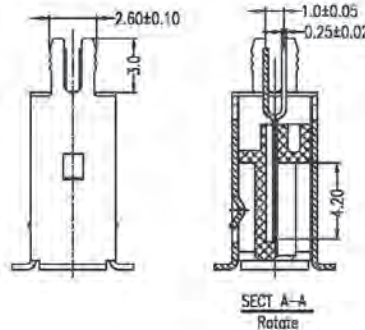
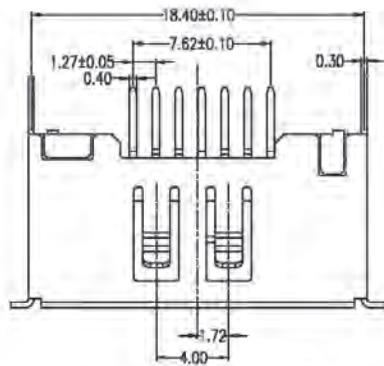
### SPECIFICATIONS

Current Rating: 1.5 Amperes  
Insulation Resistance: 1000MΩ Min  
Dielectric Withstanding: 500V AC  
Contact Resistance: 30mΩ Max.  
Operating Temperature: -55°C to +125°C

### MATERIALS

Contact Material: Brass  
Insulator: LCP, UL94V-0  
Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

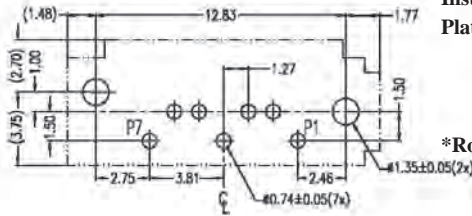
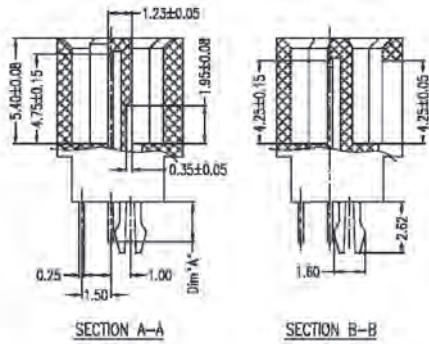


### ORDERING INFORMATION:

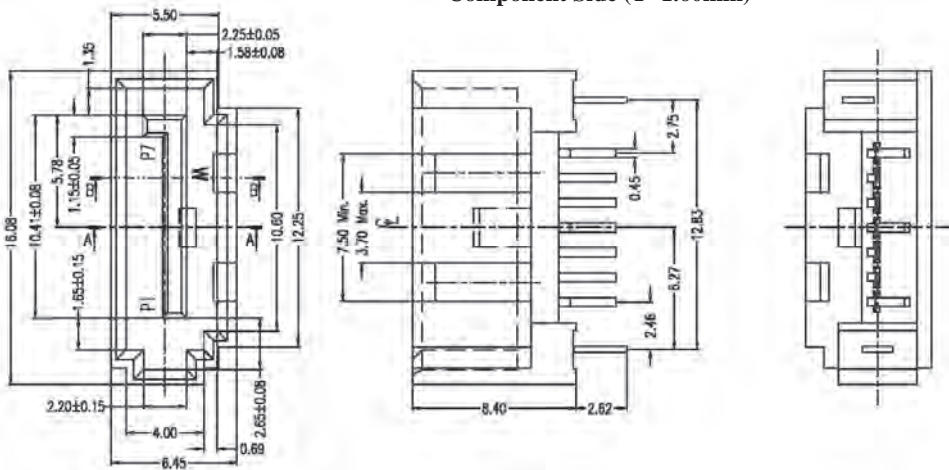
P/N S A T A  $\frac{07}{1}$  -  $\frac{H4}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"H4" SATA SHELL VERTICAL PLUG
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SERIAL ATA (SATA) 7 PIN MALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C.Board Layout  
Component Side (T=1.60mm)



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Contact Material: Brass
- Insulator: NY6T, UL94V-0
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

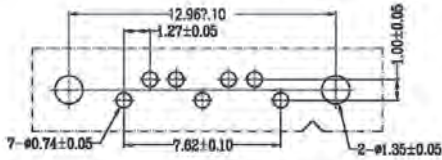
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

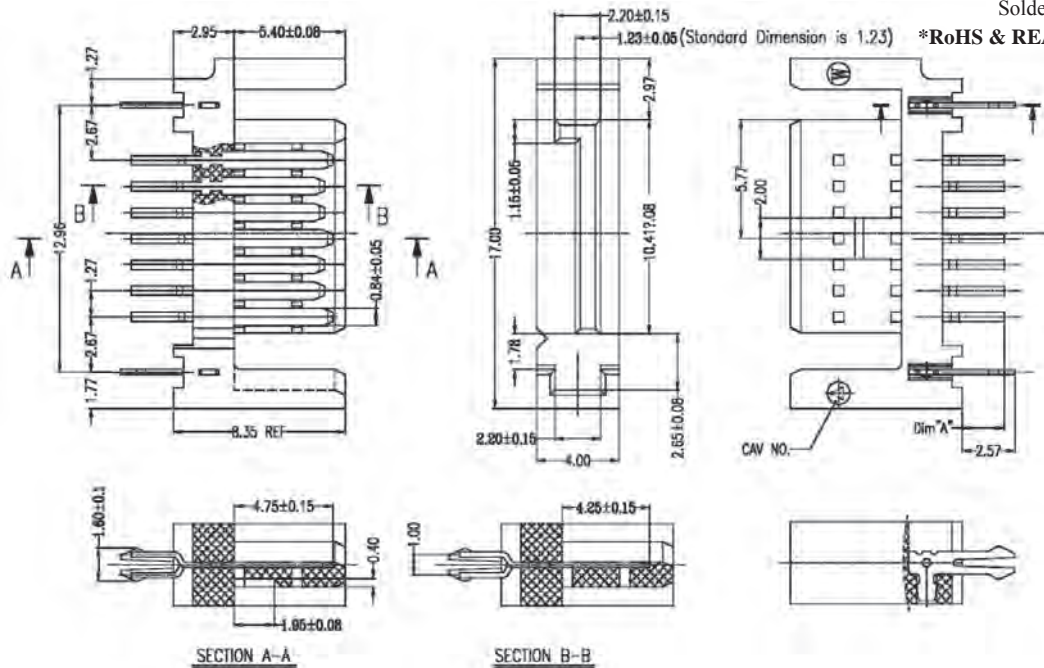
P/N S A T A  $\frac{07}{1}$  -  $\frac{xx}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"H5" DIM. A=2.15~2.30MM FOR MOTHER  
"H6" DIM. A=2.80MM FOR MOTHER
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7 PIN MALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C. Board Layout  
Top View



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Contact Material: Brass
- Insulator: LCP, UL94V-0
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

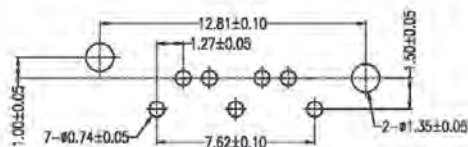
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

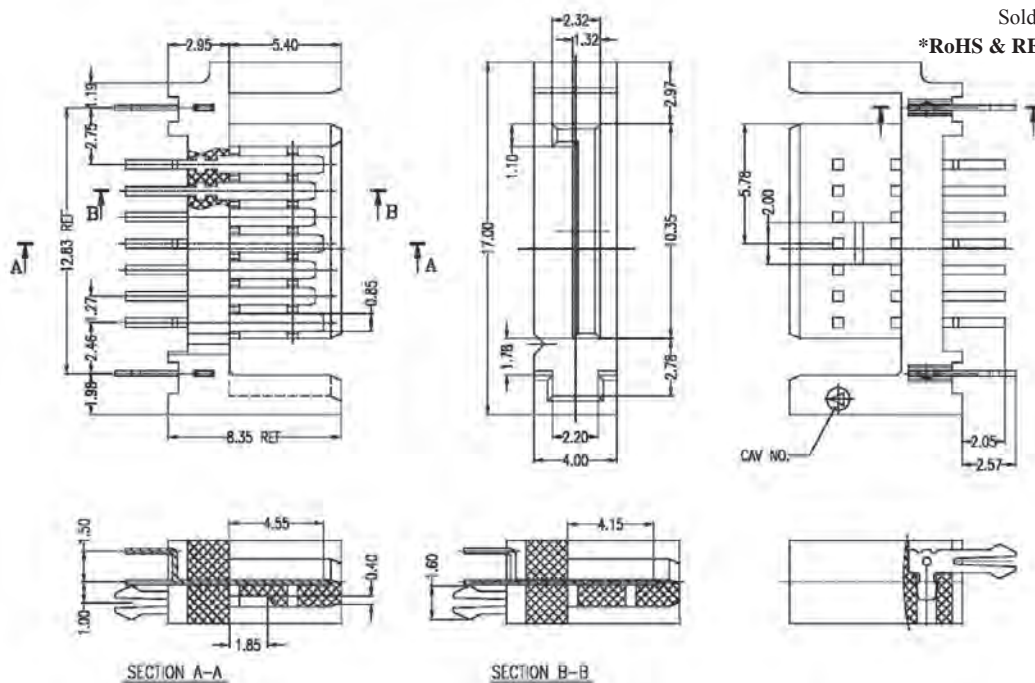
P/N S A T A  $\frac{07}{1}$  -  $\frac{xx}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"07" 7P
- CONNECTOR CODE:  
"H7" DIM. A=2.05MM FOR MOTHER  
"H8" DIM. A=3.30MM FOR MOTHER
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C.Board Layout



### SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +125°C

### MATERIALS

Contact Material: Brass

Insulator: LCP, UL94V-0

Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

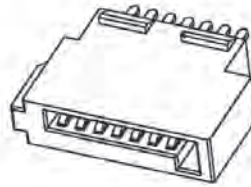
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N S A T A  $\frac{0}{1}$   $\frac{7}{2}$  -  $\frac{H}{3}$   $\frac{9}{4}$  M B  $\frac{x}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"H9" SATA FOR MOTHER
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SERIAL ATA (SATA) 7 PIN FEMALE CONNECTOR CABLE SOLDER TYPE



### SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

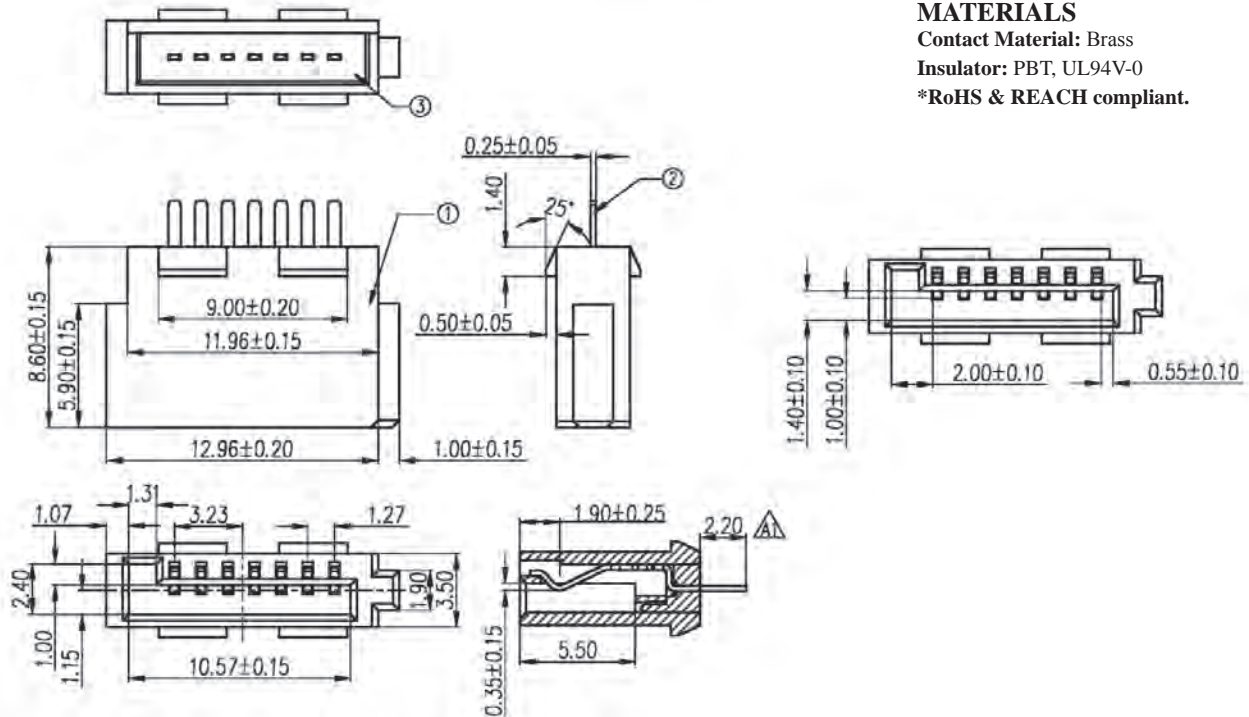
Operating Temperature: -55°C to +125°C

### MATERIALS

Contact Material: Brass

Insulator: PBT, UL94V-0

\*RoHS & REACH compliant.

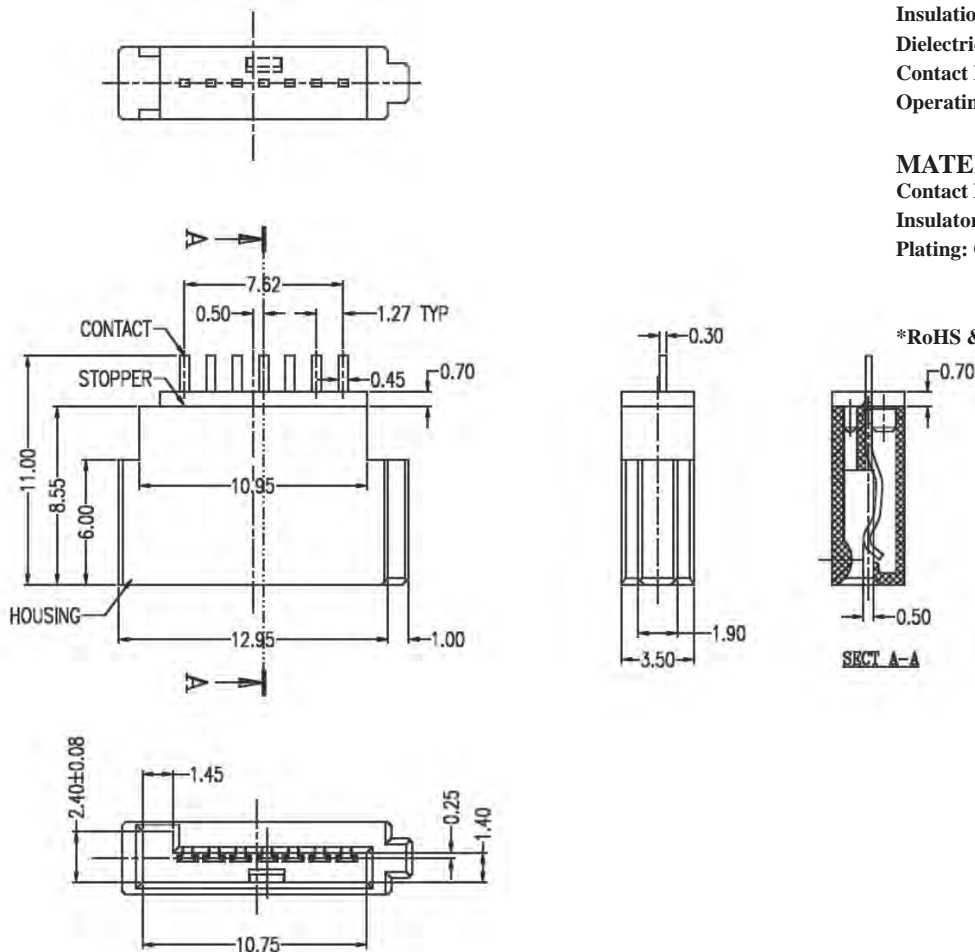


### ORDERING INFORMATION:

P/N S A T A 07 - N1 FB xx  
1 2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"N1" SATA FOR CABLE ASSEMBLY
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH

## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR CABLE SOLDER TYPE



### SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Contact Material:** Phosphor Bronze

**Insulator:** LCP, UL94V-0

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Terminal

**\*RoHS & REACH compliant.**

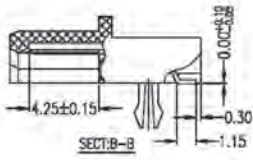
### ORDERING INFORMATION:

**P/N S A T A 07 - N2 MB xx**  
**1 2 3 4 5**

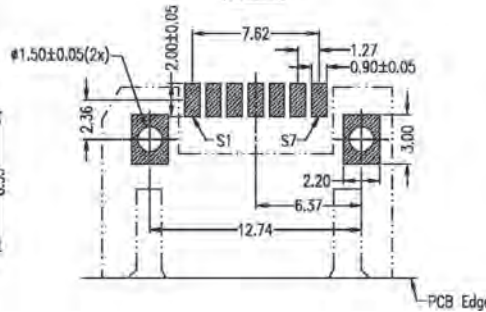
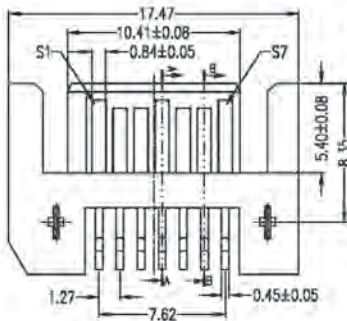
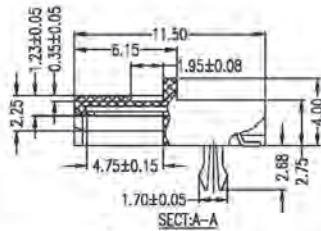
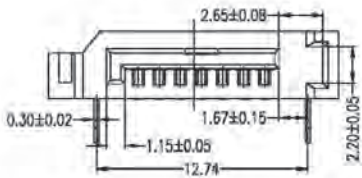
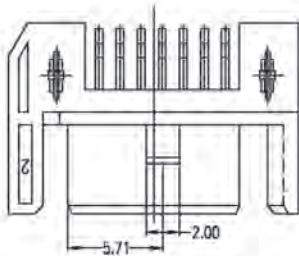
1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"N2" SATA FOR CABLE ASSEMBLY
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD



# SERIAL ATA (SATA) 7 PIN MALE CONNECTOR SMT TYPE



Signal Segment	
Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND



Recommended P.C.Board Layout  
Component Side (T=1.60mm)

## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Contact Material:** Phosphor Bronze  
**Insulator:** LCP, UL94V-0  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

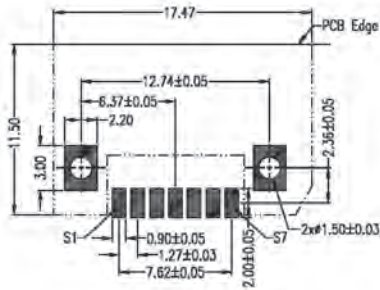
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

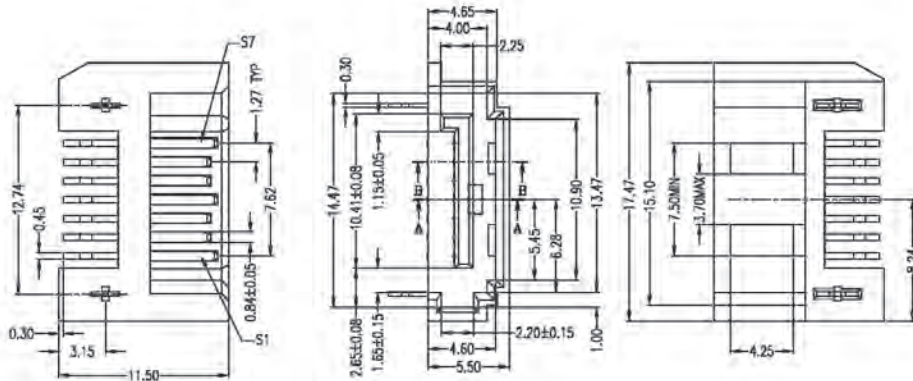
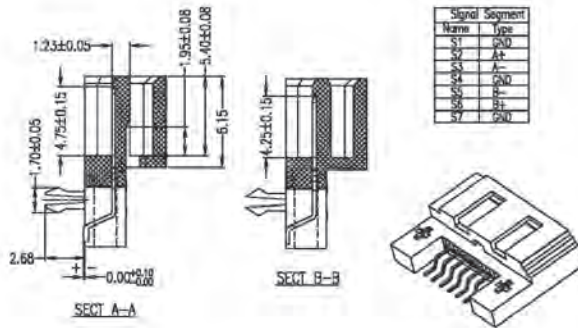
P/N S A T A 07 - S1 M  $\frac{x}{2}$   $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"S1" STANDARD SMT TYPE
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK  
"W" WHITE
5. CONTACT FINISH:  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SERIAL ATA (SATA) 7 PIN MALE CONNECTOR LIE SEMI BOX DOUBLE HOLE SMT TYPE



Recommended P.C. Board Layout  
Component Side (T=1.60mm)



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

## MATERIALS

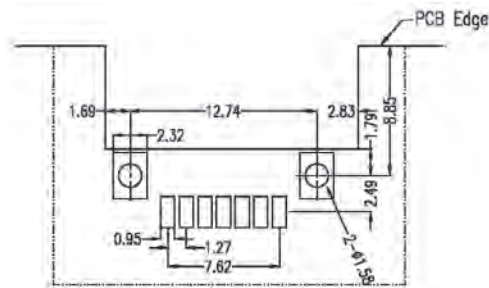
**Contact Material:** Phosphor Bronze  
**Insulator:** NY6T, UL94V-0  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall  
**\*RoHS & REACH compliant.**

## ORDERING INFORMATION:

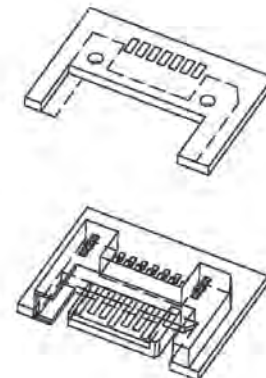
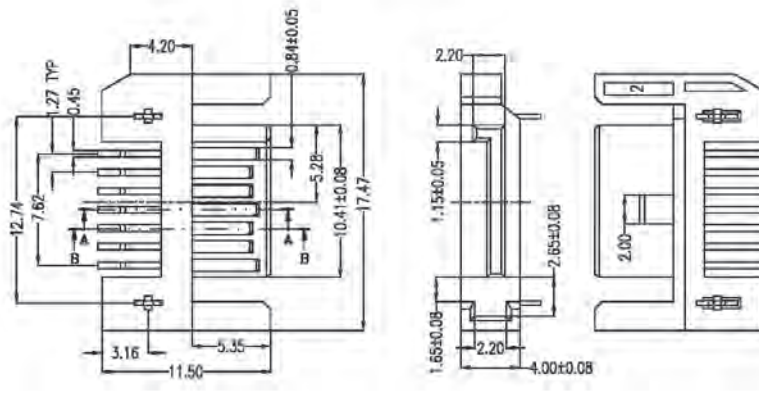
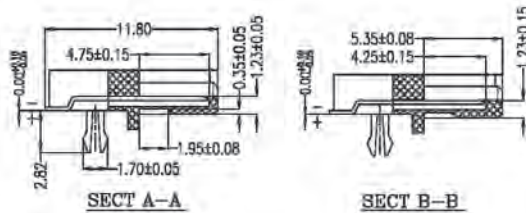
P/N S A T A 07 - S2 M X X X  
1 2 3 4 5

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. NO. OF CONTACTS:<br/>"07" 7P</li> <li>2. CONNECTOR CODE:<br/>"S2" SATA FOR CARD</li> <li>3. CONTACT TYPE:<br/>"M" MALE</li> <li>4. INSULATOR COLOR:<br/>"B" BLACK<br/>"W" WHITE<br/>"U" BLUE 286U<br/>"R" RED 187C<br/>"N" GREEN 339C<br/>"Y" YELLOW 810C</li> </ol> | <ol style="list-style-type: none"> <li>5. CONTACT FINISH:<br/>"01" GOLD FLASH<br/>"05" 5 MICROINCH GOLD<br/>"10" 10 MICROINCH GOLD<br/>"15" 15 MICROINCH GOLD<br/>"30" 30 MICROINCH GOLD</li> </ol> |
|--|---|

## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C.Board Layout



### SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +125°C

### MATERIALS

Contact Material: Phosphor Bronze

Insulator: LCP, UL94V-0

Plating: Gold Plating over Nickel on

Contact Area; Tin Plating on

Solder Tail

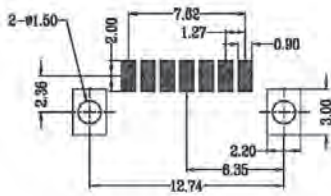
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

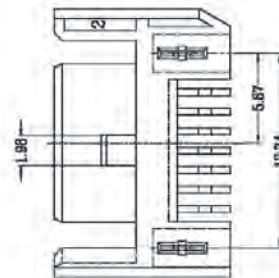
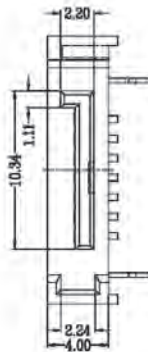
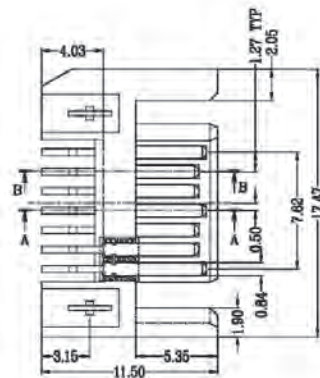
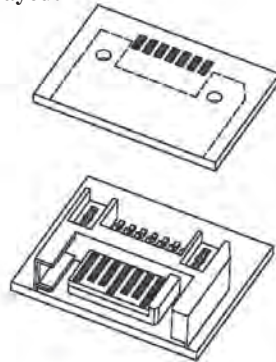
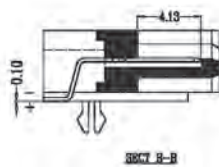
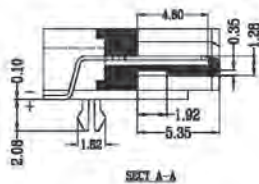
P/N S A T A **07** - **S** **3** **M** **B** **x** **x**  
**1** **2** **3** **4** **5**

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"S5" SATA FOR CARD (UPPER CONTACT)
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C.Board Layout



### SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Contact Material:** Phosphor Bronze

**Insulator:** LCP, UL94V-0

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N S A T A 07 - S 4 M B X X  
1 2 3 4 5

1. NO. OF CONTACTS:

"07" 7P

2. CONNECTOR CODE:

"S4" SATA FOR CARD

3. CONTACT TYPE:

"M" MALE

4. INSULATOR COLOR:

"B" BLACK

5. CONTACT FINISH:

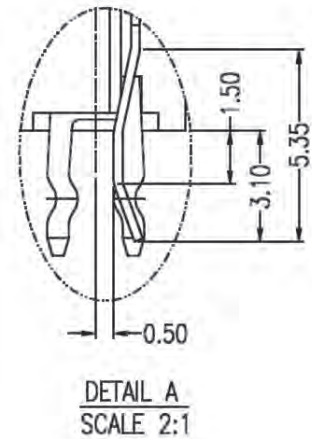
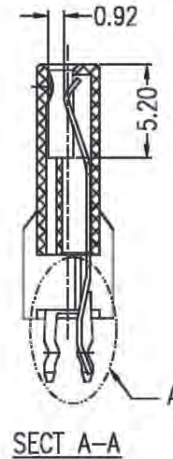
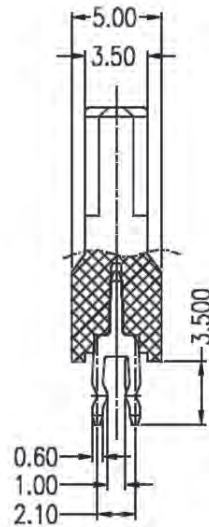
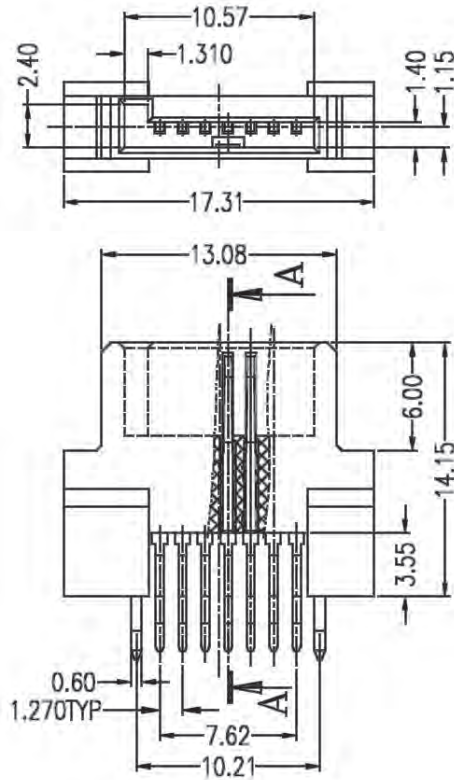
"01" GOLD FLASH

"15" 15 MICROINCH GOLD

"30" 30 MICROINCH GOLD



## SERIAL ATA (SATA) 7 PIN FEMALE CONNECTOR STRADDLE TYPE



### SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Contact Material:** Phosphor Bronze

**Insulator:** LCP, UL94V-0

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

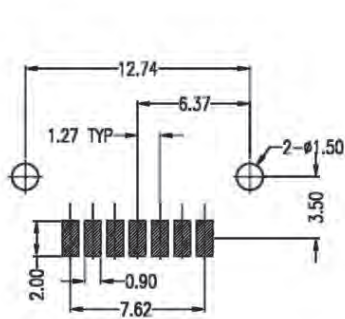
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

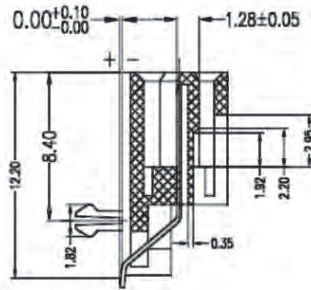
P/N S A T A 07 - S6 FB xx  
1 2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"S6" SATA FOR MOTHER
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7 PIN MALE CONNECTOR CONTACT DOWN SMT TYPE



Recommended P.C. Board Layout



SECT B-B

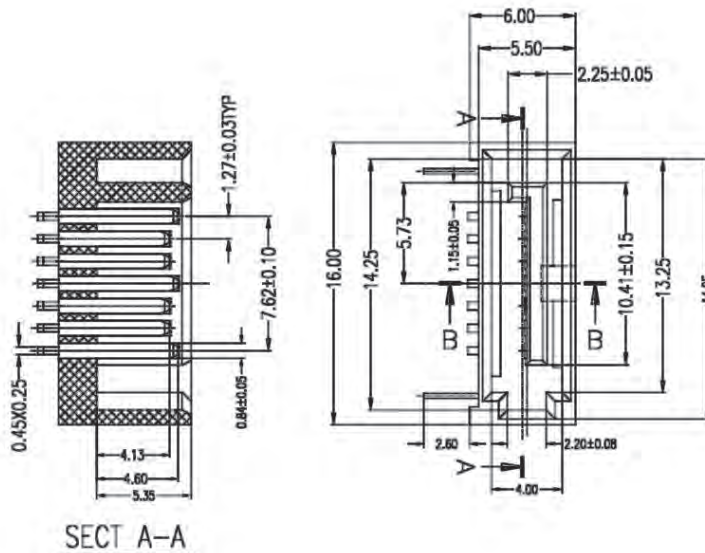
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

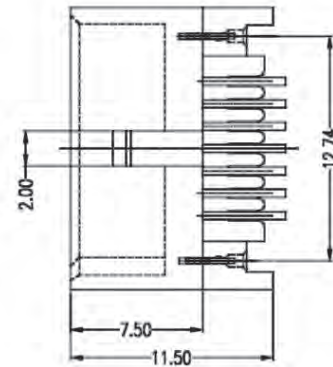
## MATERIALS

- Contact Material: Brass
- Insulator: LCP, UL94V-0
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



SECT A-A

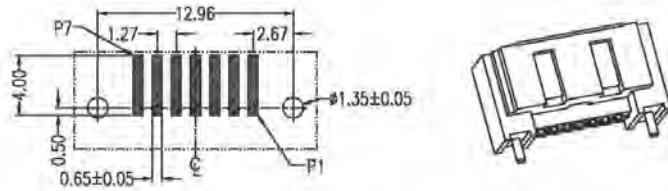


## ORDERING INFORMATION:

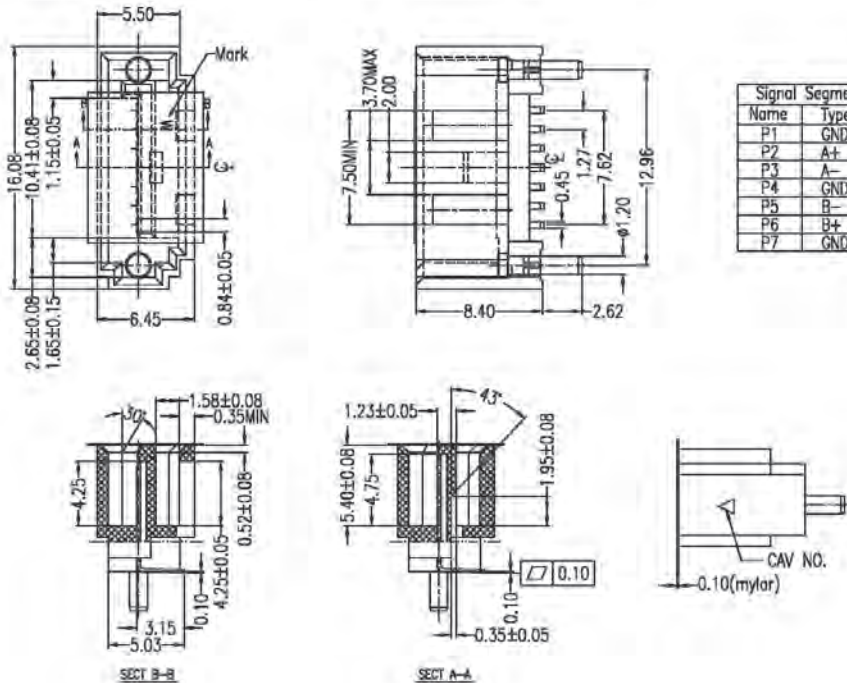
P/N S A T A 07 - S 8 M B x x  
1 2 3 4 5

- NO. OF CONTACTS:  
"07" 7P
- CONNECTOR CODE:  
"S8" SATA FOR CARD
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR SMT TYPE



Recommended P.C. Board Layout  
Component Side (T=1.60mm)



### SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Contact Material:** Brass  
**Insulator:** Nylon6T, UL94V-0  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

\*RoHS & REACH compliant.

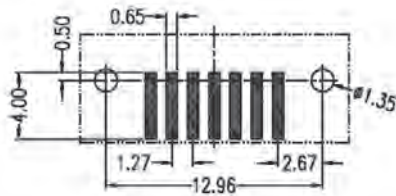
### ORDERING INFORMATION:

P/N S A T A 07 - S9 M B X X  
 1 2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"S9" SATA FOR MOTHER
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD



## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C.Board Layout  
(T=1.60mm)

### SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +125°C

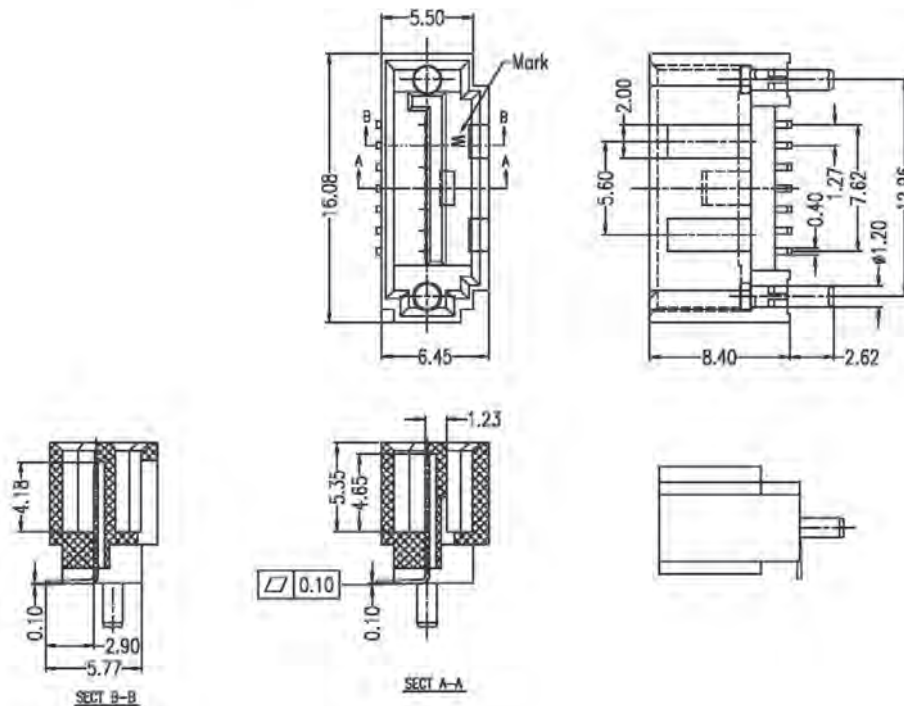
### MATERIALS

Contact Material: Brass

Insulator: NY6T, UL94V-0

Plating: Gold Plating over Nickel on  
Contact Area; Tin Plating on  
Solder Tail

\*RoHS & REACH compliant.

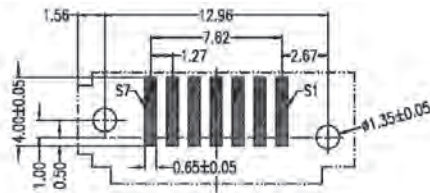


### ORDERING INFORMATION:

P/N S A T A  $\frac{07}{1}$  -  $\frac{T1}{2}$  M  $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

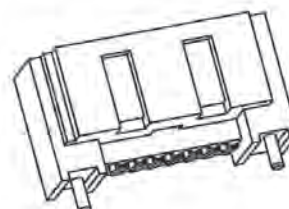
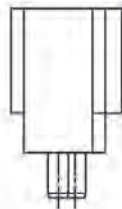
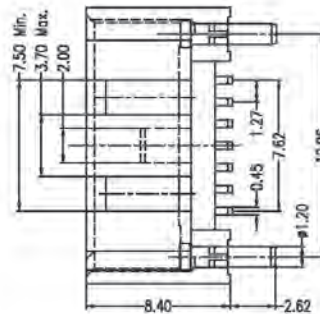
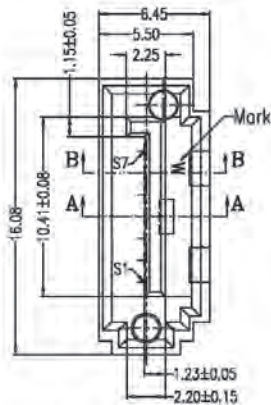
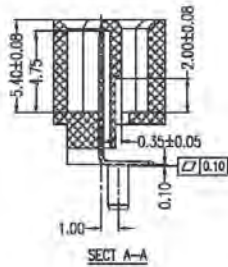
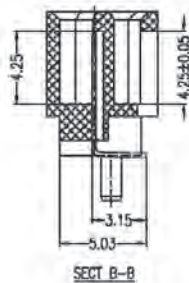
1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"T1" SATA FOR MOTHER
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK  
"U" BLUE
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.60mm)

PN	SIGNAL NAME
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND



### SPECIFICATIONS

Current Rating: 1.5 Amperes  
Insulation Resistance: 1000MΩ Min  
Dielectric Withstanding: 500V AC  
Contact Resistance: 30mΩ Max.  
Operating Temperature: -55°C to +125°C

### MATERIALS

Contact Material: Brass  
Insulator: NY6T, UL94V-0  
Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

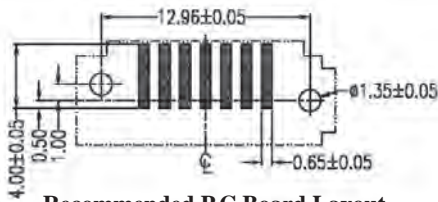
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N S A T A  $\frac{07}{1}$  -  $\frac{T2}{2}$   $\frac{M}{3}$   $\frac{X}{4}$   $\frac{X}{5}$

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"T2" SATA FOR MOTHER
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK  
"U" BLUE
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR SMT TYPE



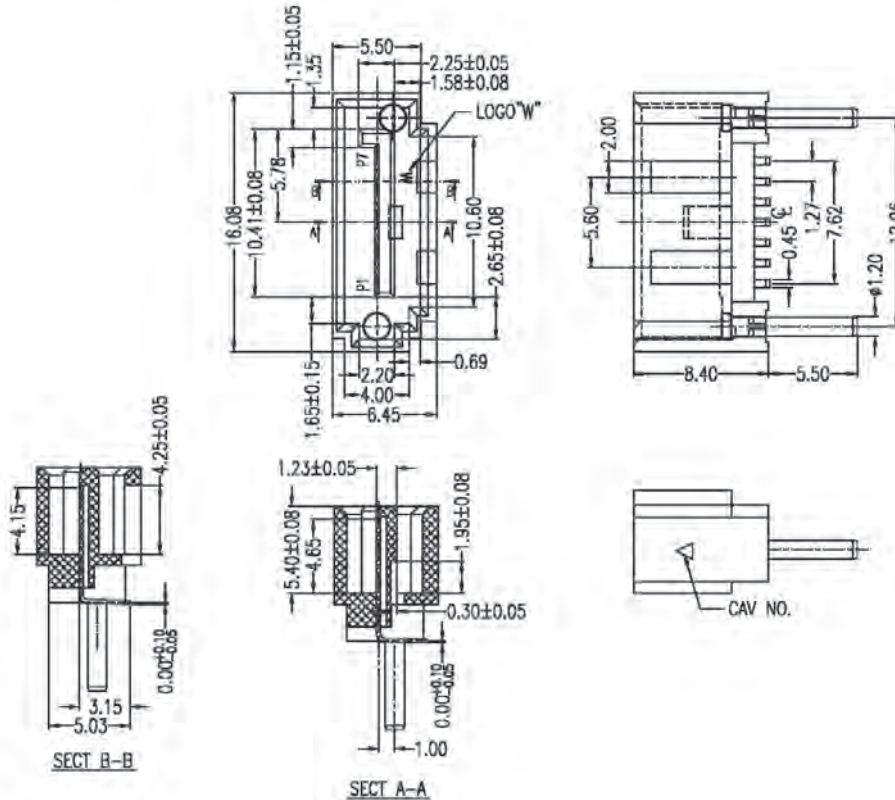
Recommended P.C.Board Layout  
Top View (T=1.60mm)

### SPECIFICATIONS

Current Rating: 1.5 Amperes  
Insulation Resistance: 1000MΩ Min  
Dielectric Withstanding: 500V AC  
Contact Resistance: 30mΩ Max.  
Operating Temperature: -55°C to +125°C

### MATERIALS

Contact Material: Brass  
Insulator: NY6T, UL94V-0  
Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail  
\*RoHS & REACH compliant.

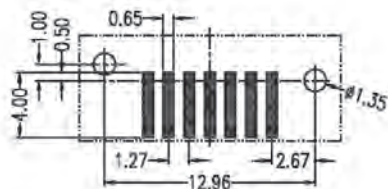


### ORDERING INFORMATION:

P/N S A T A  $\frac{07}{1}$  -  $\frac{T3}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"T3" SATA FOR MOTHER
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SERIAL ATA (SATA) 7 PIN MALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C.Board Layout  
(T=1.60mm)

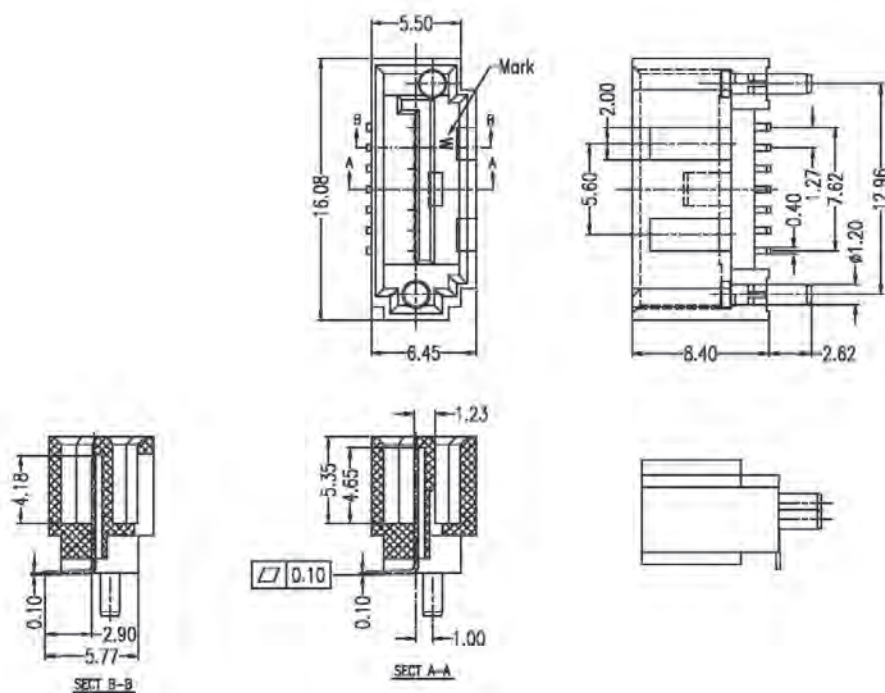
### SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Contact Material:** Brass  
**Insulator:** NY6T, UL94V-0  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



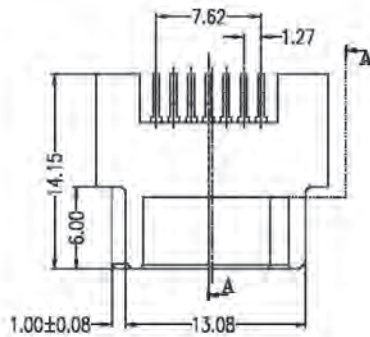
### ORDERING INFORMATION:

P/N S A T A  $\frac{07}{1}$  -  $\frac{T4}{2}$  M  $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

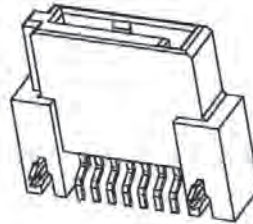
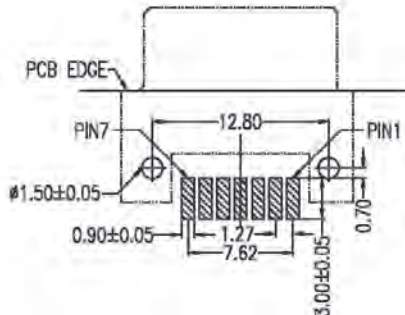
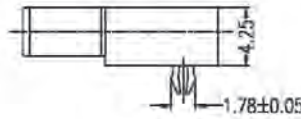
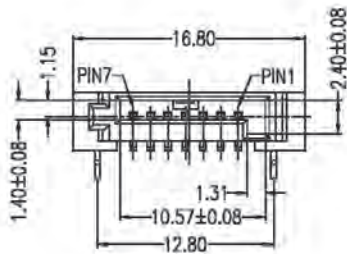
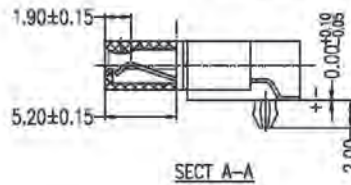
1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"T4" SATA FOR MOTHER
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK  
"U" BLUE
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD



# SERIAL ATA (SATA) 7 PIN FEMALE CONNECTOR SMT TYPE



Signal Name	Segment Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND



Recommended P.C.Board Layout  
Top View (T=0.8mm)

## SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Contact Material:** Phosphor Bronze

**Insulator:** LCP, UL94V-0

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

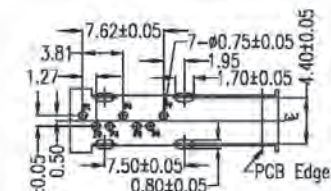
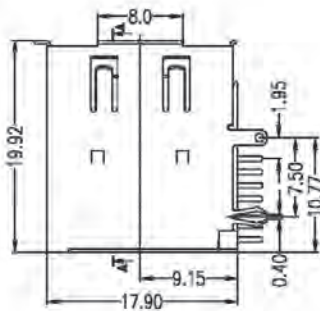
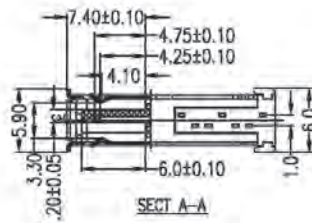
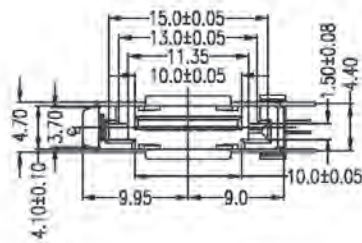
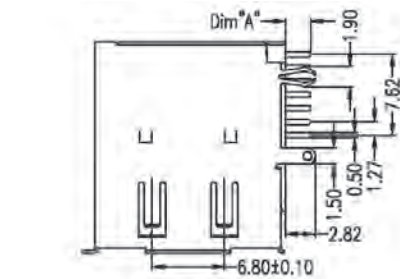
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

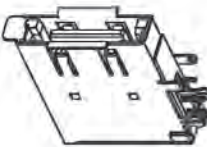
P/N S A T A 07 - T6 FB xx  
1 2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"T6" FEMALE SATA SMT TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# eSATA 7 PIN MALE CONNECTOR UPRIGHT DIP TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Operating Voltage: 100V AC
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Housing: Nylon 46, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

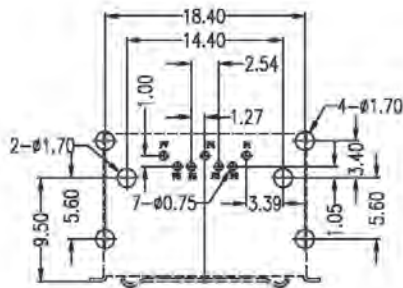
Pin Number	Signal Name	eSATA
S1	GND	
S2	RX+	
S3	RX-	
S4	GND	
S5	TX-	
S6	TX+	
S7	GND	

## ORDERING INFORMATION:

P/N S A T A 07 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{M}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"07" 7P
- CONNECTOR CODE:  
"B1" DIM.A=3.10MM  
"B2" DIM.A=2.35MM
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK  
"Y" YELLOW 810C  
"R" RED 187C
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## eSATA 7 PIN MALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)

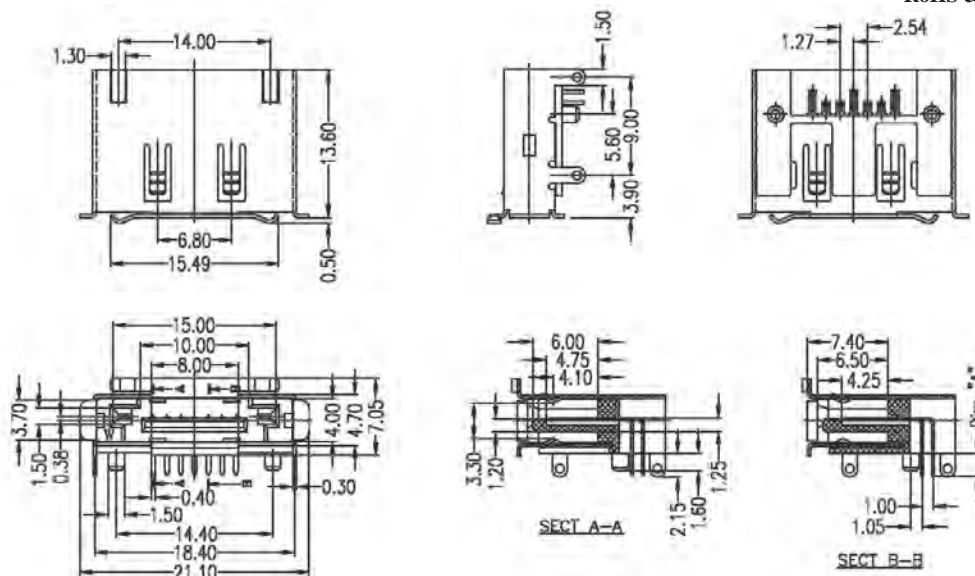
### SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Operating Voltage:** 100V AC  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Housing:** Nylon 46, UL94V-0  
**Contact:** Brass  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



### ORDERING INFORMATION:

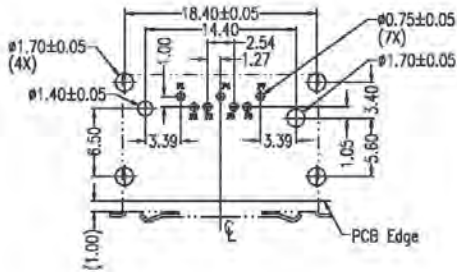
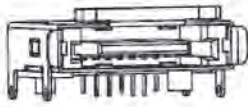
P/N S A T A  $\frac{07}{1}$  -  $\frac{xx}{2}$   $\frac{M}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"B3" DIM.A=3.10MM  
"B4" DIM.A=2.05MM
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK  
"U" BLUE 2935U  
"Y" YELLOW 810C  
"R" RED 187C

5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD



# eSATA 7 PIN MALE CONNECTOR REVERSE MOUNT RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout  
Component Side (T=1.60mm)

Signal Define	
Pin Number	Signal Name
P1	GND
P2	A+
P3	A-
P4	GND
P5	B-
P6	B+
P7	GND

## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Operating Voltage: 100V AC

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +125°C

## MATERIALS

Housing: LCP, UL94V-0

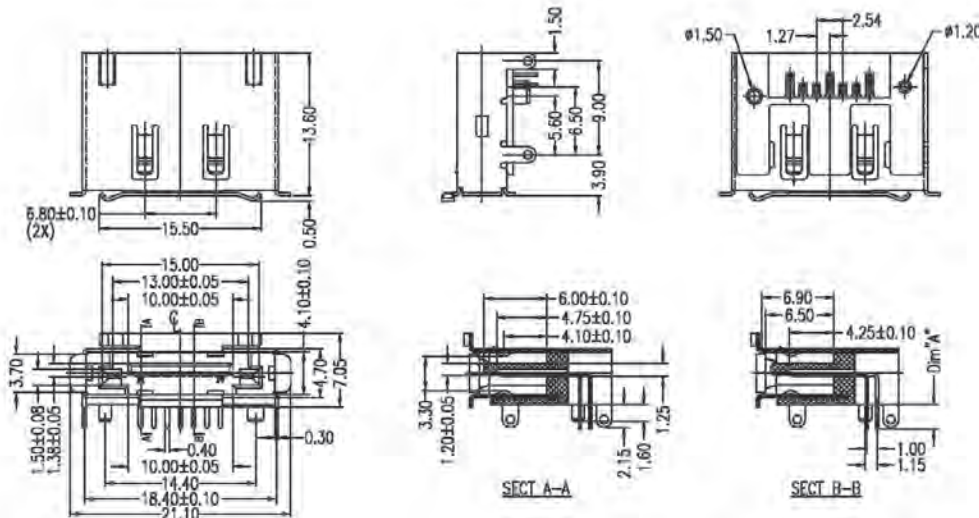
Contact: Brass

Plating: Au Plating on Contact Area;

Sn (100u" Min.) Plating on Solder

Tail; Ni (40u" Min.) Underplating overall

\*RoHS & REACH compliant.



## ORDERING INFORMATION:

P/N S A T A  $\frac{07}{1}$  -  $\frac{xx}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:

"07" 7P

2. CONNECTOR CODE:

"B5" DIM.A=3.10MM

"B6" DIM.A=2.30MM

3. CONTACT TYPE:

"M" MALE

4. INSULATOR COLOR:

"B" BLACK

5. CONTACT FINISH:

"01" GOLD FLASH

"05" 05 MICROINCH GOLD

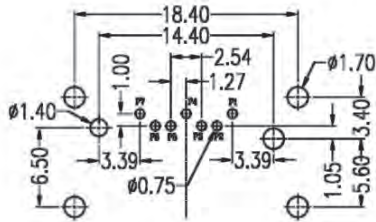
"10" 10 MICROINCH GOLD

"15" 15 MICROINCH GOLD

"30" 30 MICROINCH GOLD



# eSATA 7 PIN MALE CONNECTOR REVERSE MOUNT RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout  
(T=1.60mm)

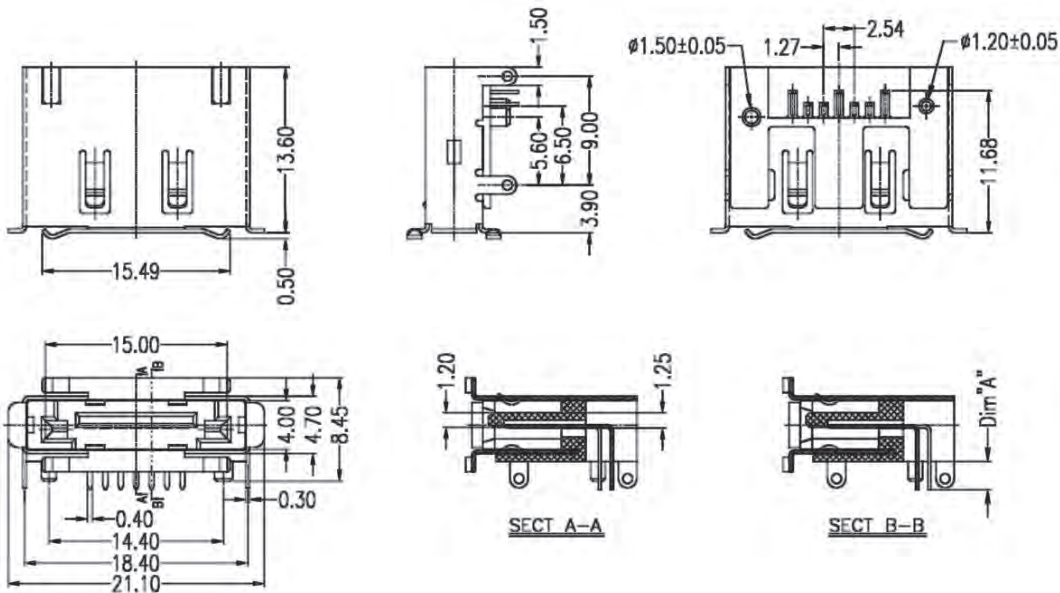
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Operating Voltage: 100V AC
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Housing: Nylon 46, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



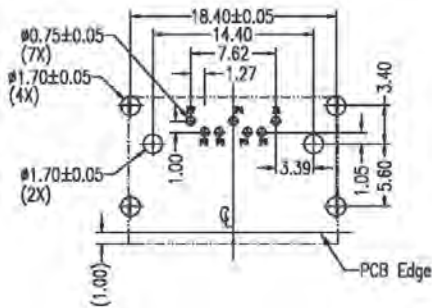
## ORDERING INFORMATION:

P/N S A T A  $\frac{07}{1}$  -  $\frac{xx}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"B7" DIM.A=3.10MM  
"B8" DIM.A=2.30MM
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK

5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# eSATA 7 PIN MALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=1.60mm)

Signal Define	
Pin Number	Signal Name
P1	GND
P2	A+
P3	A-
P4	GND
P5	B-
P6	B+
P7	GND

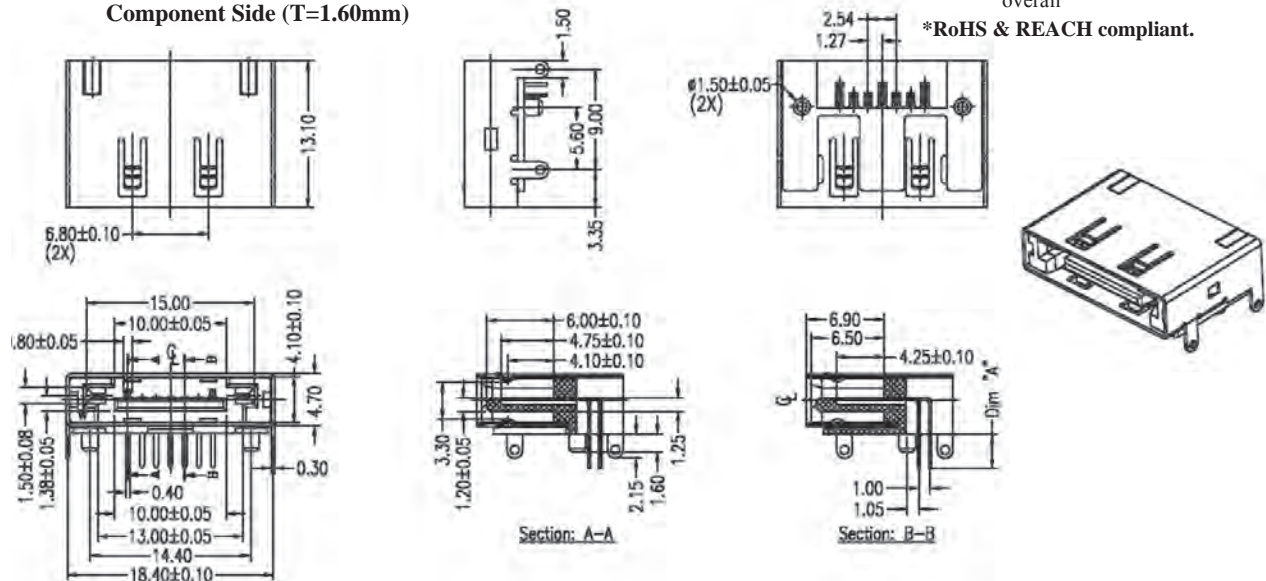
## SPECIFICATIONS

Current Rating: 1.5 Amperes  
 Insulation Resistance: 1000MΩ Min  
 Operating Voltage: 100V AC  
 Dielectric Withstanding: 500V AC  
 Contact Resistance: 30mΩ Max.  
 Operating Temperature: -55°C to +125°C

## MATERIALS

Housing: LCP, UL94V-0  
 Contact: Brass  
 Plating: Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

\*RoHS & REACH compliant.



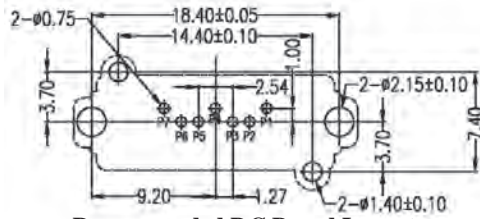
## ORDERING INFORMATION:

P/N S A T A 07 -  $\frac{x}{1}$   $\frac{x}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{x}{5}$

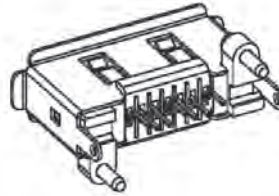
1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"B9" DIM.A=3.10MM  
"C1" DIM.A=2.30MM
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK

5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## eSATA 7 PIN MALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)



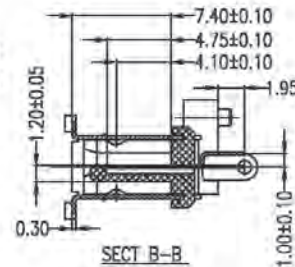
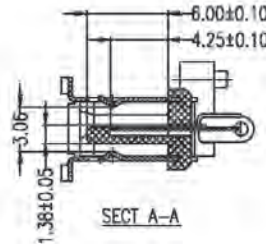
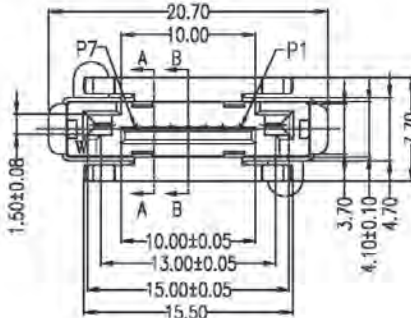
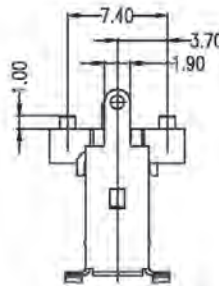
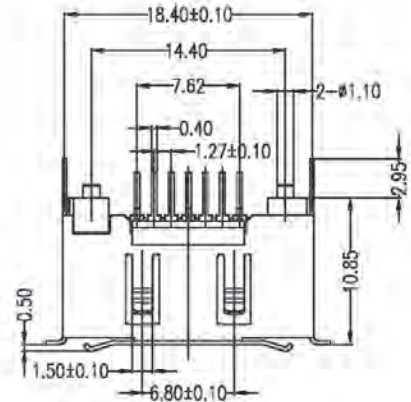
### SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Brass  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

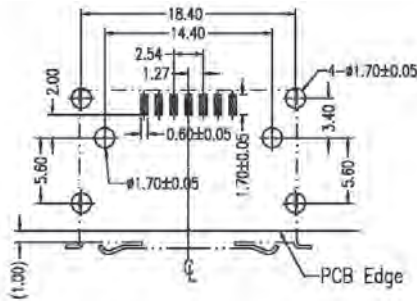


### ORDERING INFORMATION:

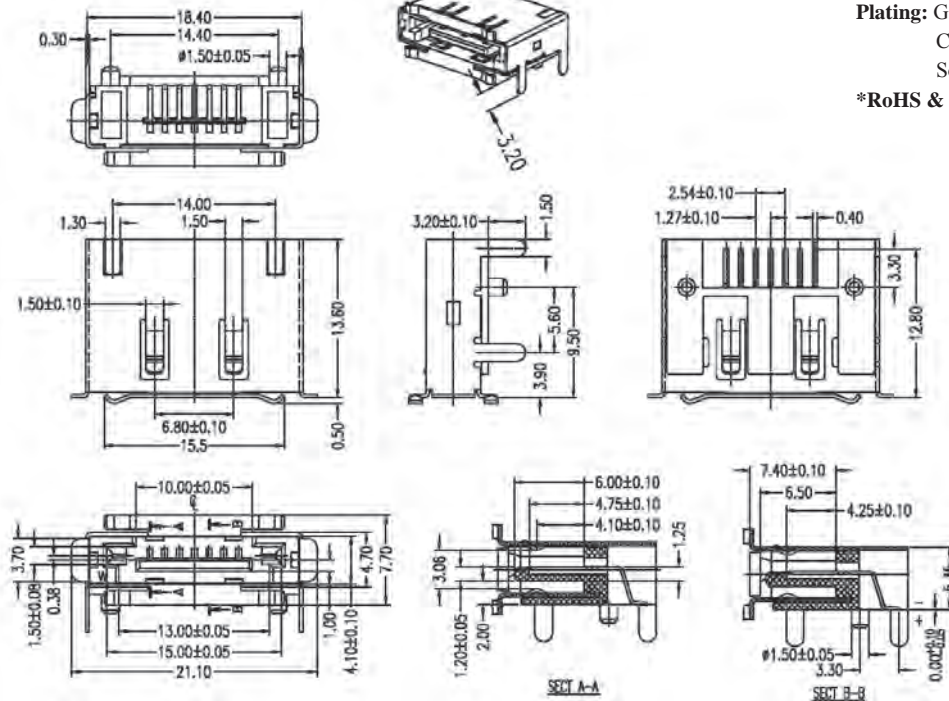
P/N S A T A 07 - H3 MB xx  
1 2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"H3" eSATA STRAIGHT DIP TYPE
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## eSATA 7 PIN MALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)



### SPECIFICATIONS

Current Rating: 1.5 Amperes  
Insulation Resistance: 1000MΩ Min  
Operating Voltage: 100V AC  
Dielectric Withstanding: 500V AC  
Contact Resistance: 30mΩ Max.  
Operating Temperature: -55°C to +125°C

### MATERIALS

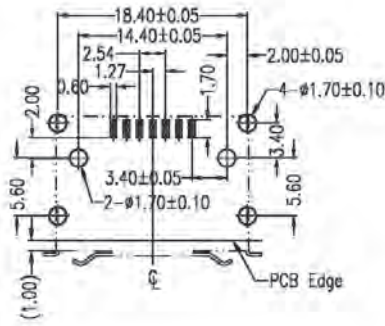
Housing: LCP, UL94V-0  
Contact: Brass  
Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail  
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

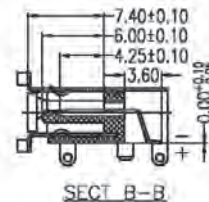
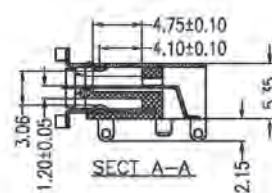
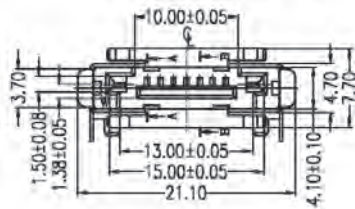
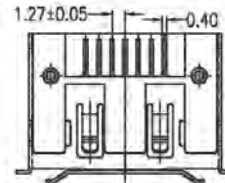
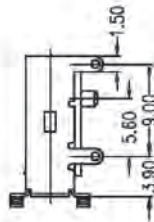
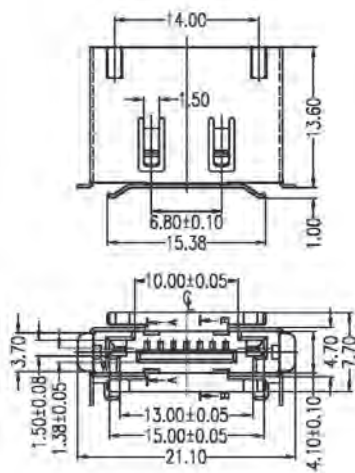
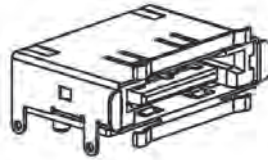
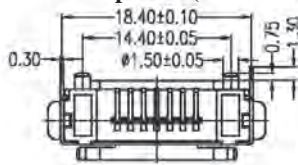
P/N S A T A 07 - T7 MB x x  
          1      2      3      4      5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"T7" STANDARD SMT TYPE (3.20MM)
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## eSATA 7 PIN MALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)



### SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Operating Voltage: 100V AC
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

### MATERIALS

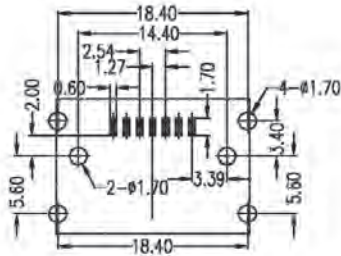
- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail
- \*RoHS & REACH compliant.

### ORDERING INFORMATION:

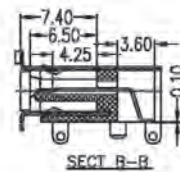
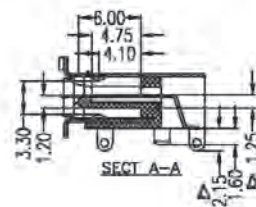
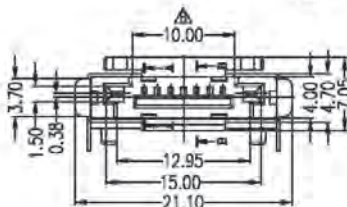
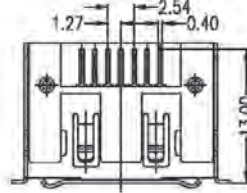
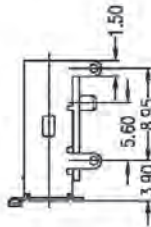
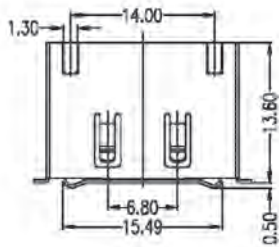
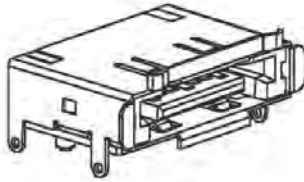
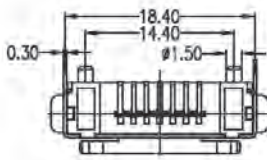
P/N S A T A 07 - T8 M B x x  
                  1      2      3      4      5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"T8" HIGH SPRING TYPE (HAI WAI)
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## eSATA 7 PIN MALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout



### SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Operating Voltage: 100V AC
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

### MATERIALS

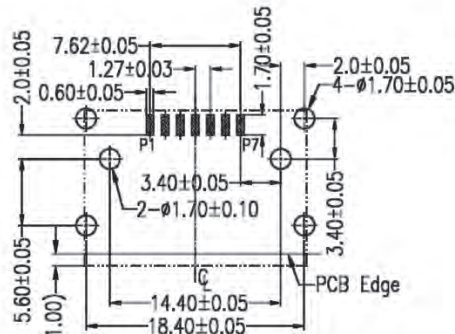
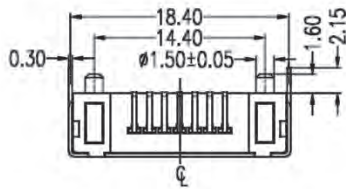
- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail
- \*RoHS & REACH compliant.

### ORDERING INFORMATION:

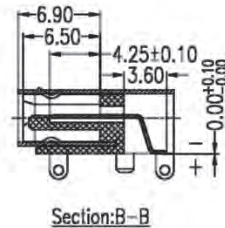
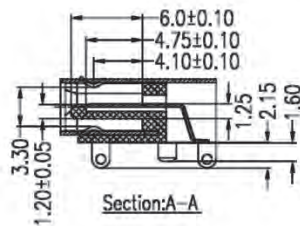
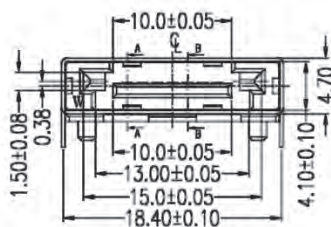
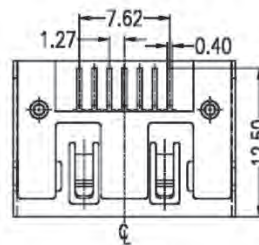
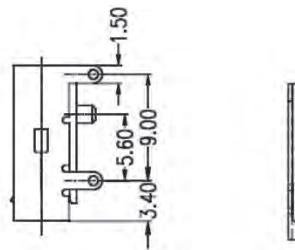
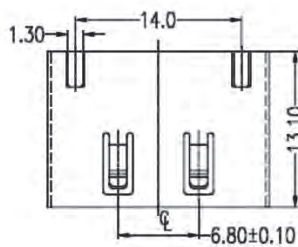
P/N S A T A 07 - T9 M B x X  
1 2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"T9" STANDARD SMT TYPE WITH SINGLE SPRING
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## eSATA 7 PIN MALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)



### SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Brass  
**Shell:** Brass  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

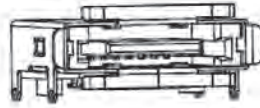
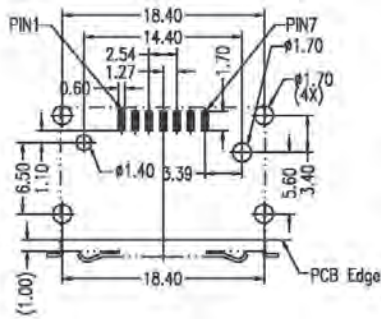
### ORDERING INFORMATION:

P/N S A T A 07 - U 1 M B x x  
1 2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"U1" STANDARD SMT TYPE W/O SPRING
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD



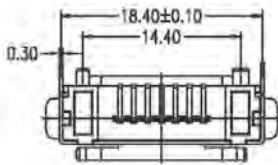
# eSATA 7 PIN MALE CONNECTOR REVERSE MOUNT SMT TYPE



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Operating Voltage: 100V AC
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## Recommended P.C.Board Layout Component Side (T=1.60mm)

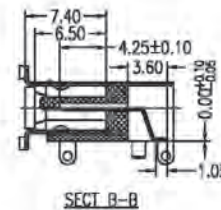
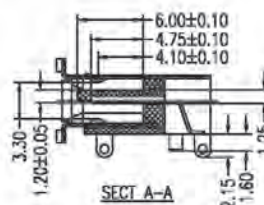
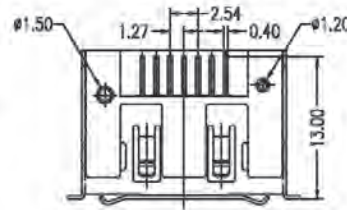
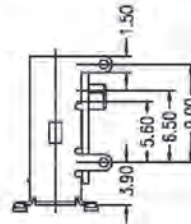
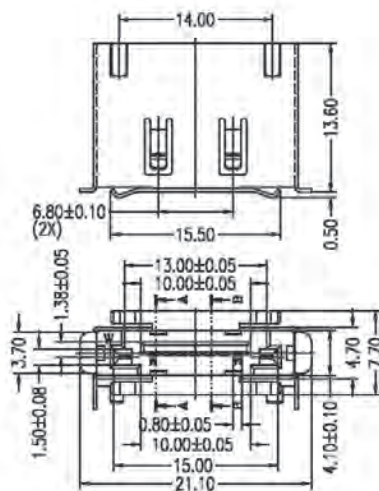


Pin Number	Signal Name
P1	GND
P2	A+
P3	A-
P4	GND
P5	B-
P6	B+
P7	GND

## MATERIALS

- Housing: LCP+50%G.F., UL94V-0
- Contact: Brass
- Shell: Brass
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

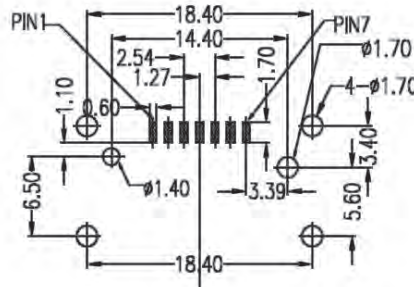
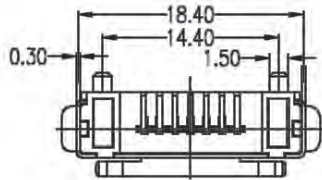


## ORDERING INFORMATION:

P/N S A T A 07 - U 2 M B x x  
                                  1                                  2                                  3                                  4                                  5

- NO. OF CONTACTS:  
"07" 7P
- CONNECTOR CODE:  
"U2" REVERSE SMT TYPE WITH DOUBLE SPRING
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## eSATA 7 PIN MALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C.Board Layout

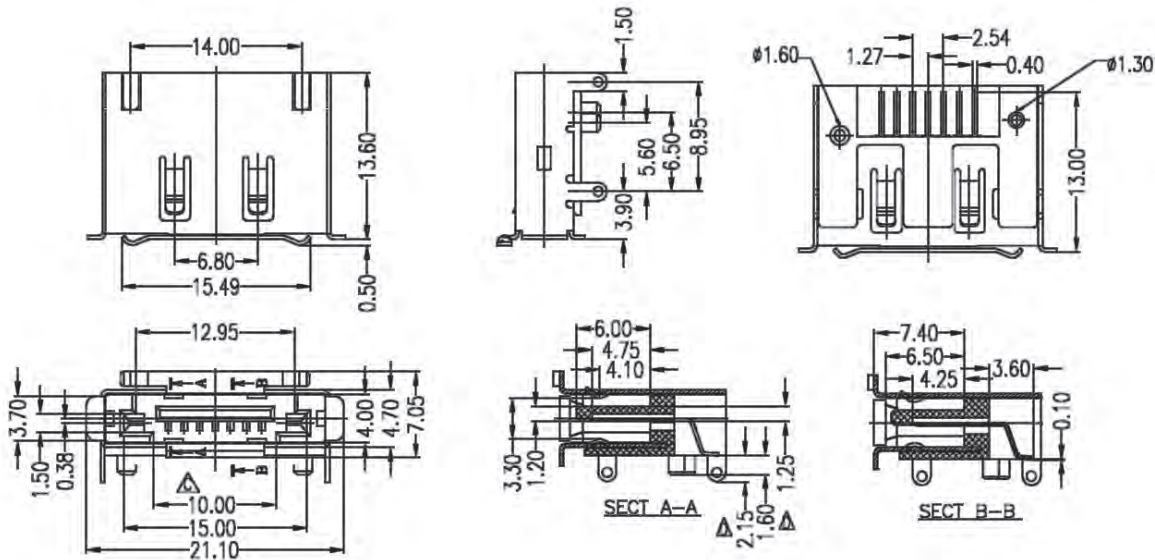
### SPECIFICATIONS

Current Rating: 1.5 Amperes  
 Insulation Resistance: 1000MΩ Min  
 Operating Voltage: 100V AC  
 Contact Resistance: 30mΩ Max.  
 Operating Temperature: -55°C to +125°C

### MATERIALS

Housing: LCP, UL94V-0  
 Contact: Brass  
 Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

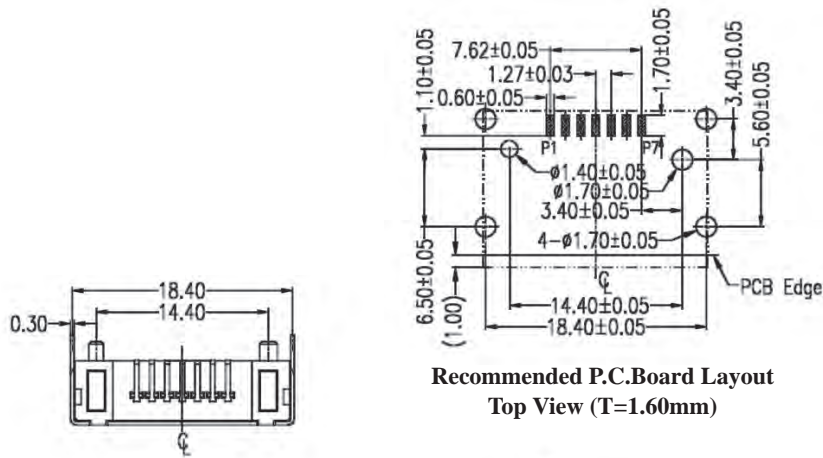


### ORDERING INFORMATION:

P/N S A T A 07 - U 3 M B x x  
 1 2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"U3" REVERSE SMT TYPE WITH SINGLE SPRING
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# eSATA 7 PIN MALE CONNECTOR REVERSE MOUNT SMT TYPE



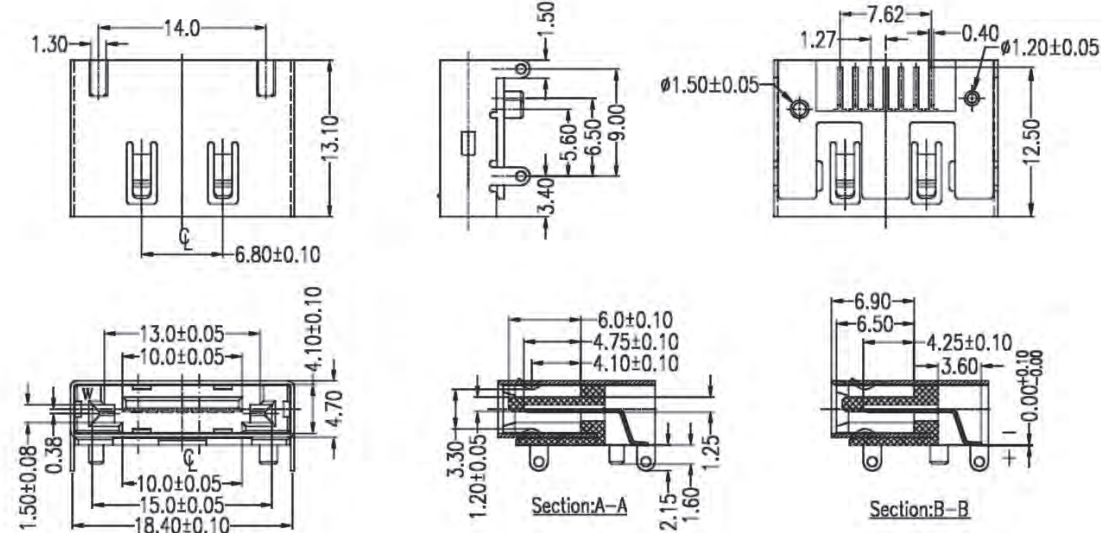
## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Brass  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



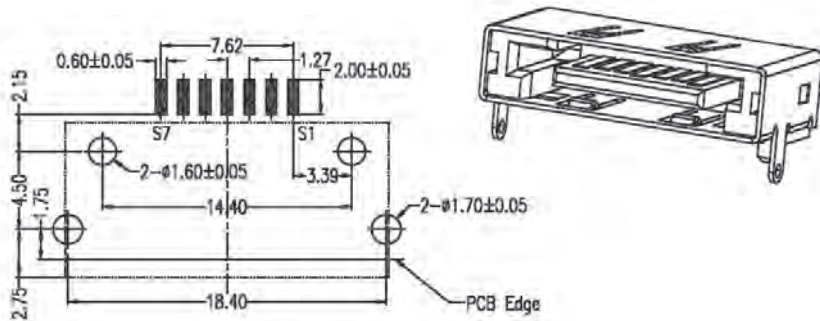
## ORDERING INFORMATION:

**P/N S A T A 07 - U 4 M B x x**  
**1 2 3 4 5**

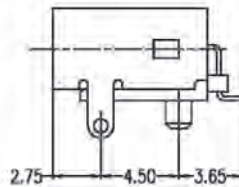
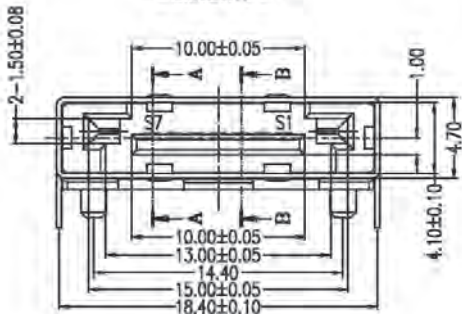
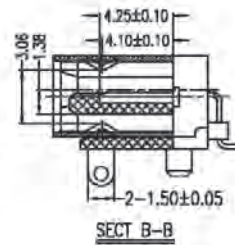
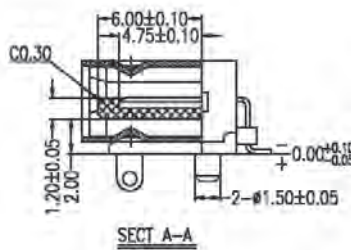
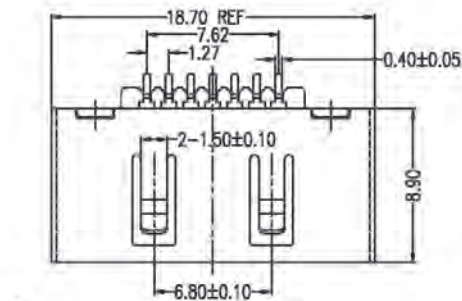
1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"U4" REVERSE SMT TYPE W/O SPRING
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD



# eSATA 7 PIN MALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.60mm)



Pin Number	Signal Name
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND

## ORDERING INFORMATION:

P/N S A T A 07 - U 7 M B x x  
                                  1          2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"U7" SLIM eSATA PLUG
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## SPECIFICATIONS

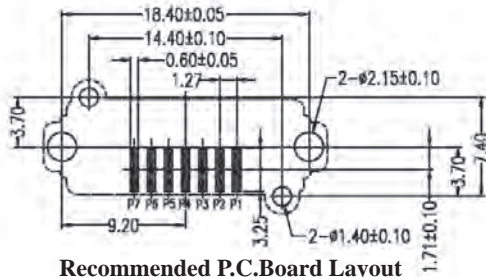
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

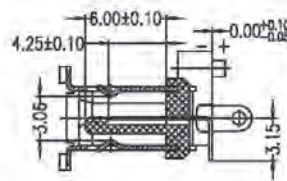
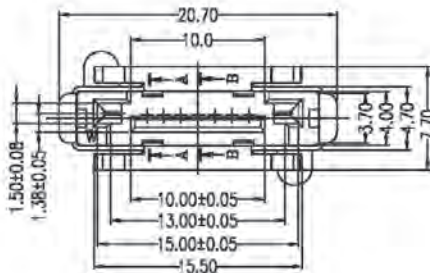
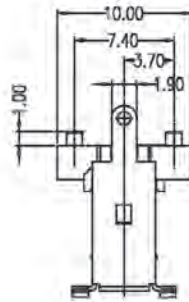
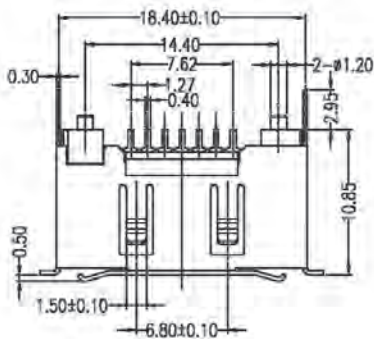
- Housing: Nylon6T+30%G.F., UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

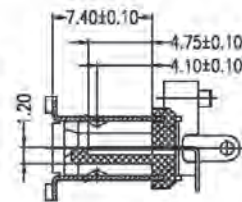
## eSATA 7 PIN MALE CONNECTOR SMT TYPE



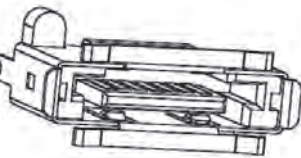
Recommended P.C. Board Layout  
Top View (T=1.60mm)



SECT A-A



SECT B-B



### SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Operating Voltage: 100V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +125°C

### MATERIALS

Housing: LCP, UL94V-0

Contact: Brass

Plating: Gold Plating over Nickel on  
Contact Area; Tin Plating on  
Solder Tail

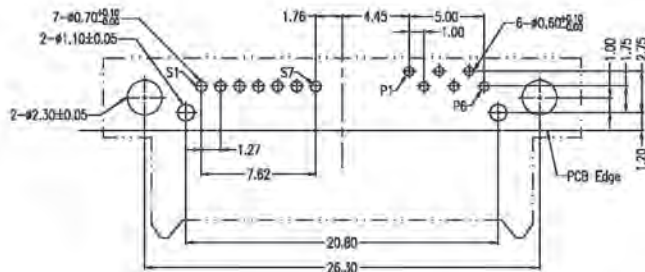
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

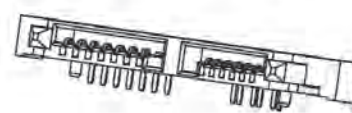
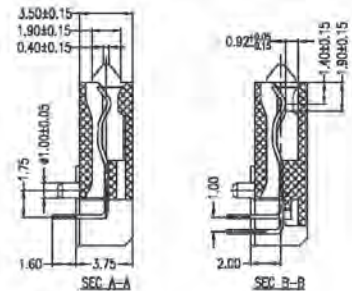
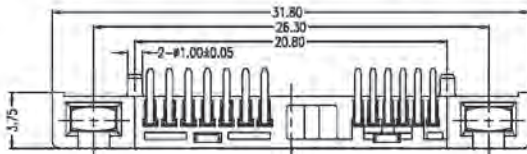
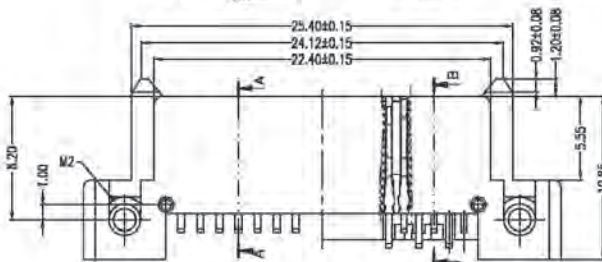
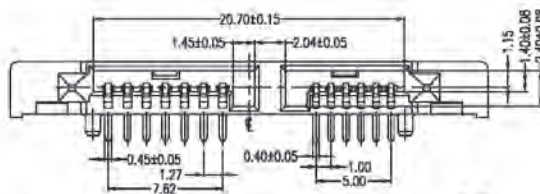
P/N S A T A 07 - U 8 M B x x  
                  1          2 3 4 5

1. NO. OF CONTACTS:  
"07" 7P
2. CONNECTOR CODE:  
"U8" eSATA STRAIGHT SMT TYPE
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR REVERSE MOUNT RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout  
Top View (T=1.20mm)



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

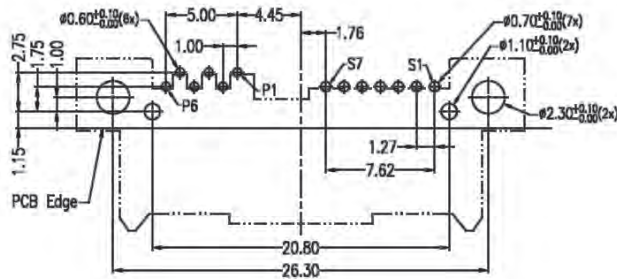
Pin Number	Signal Name	Pin Number	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	NC
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		

## ORDERING INFORMATION:

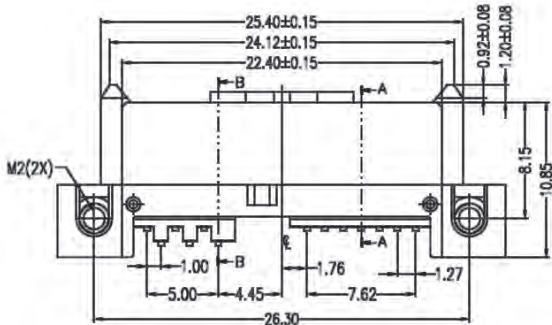
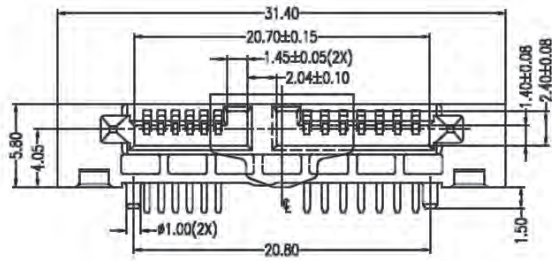
P/N S A T A  $\frac{13}{1}$  -  $\frac{A1}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"A1" REVERSE R/A DIP TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

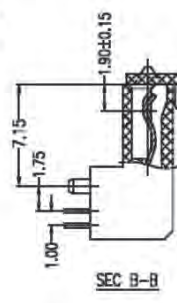
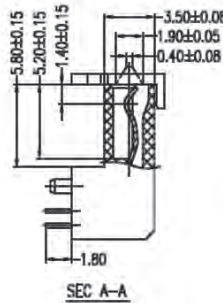
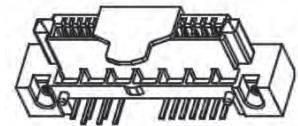
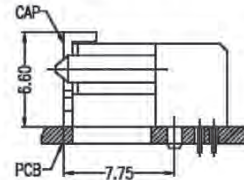
# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20mm)



Pin NO.	Signal Name	Pin NO.	Power Name
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	+5V
S5	B+	P5	GND
S6	B-	P6	GND
S7	GND		



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

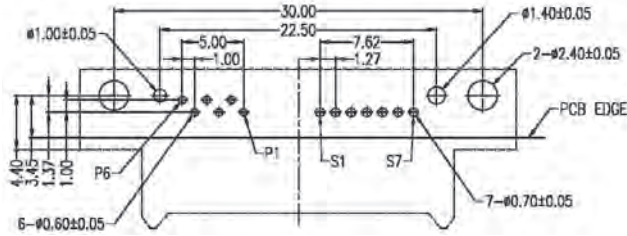
## ORDERING INFORMATION:

P/N S A T A  $\frac{13}{1}$  -  $\frac{A2}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$  -  $\frac{x}{6}$

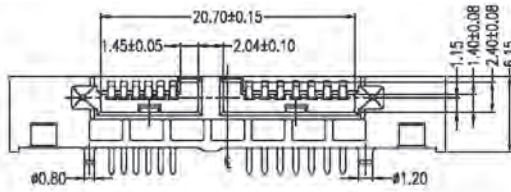
- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"A2" R/A TYPE WITH SCREWS
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD
- PACKAGE TYPE:  
"0" TRAY  
"Q" WITH PAD IN TAPE & REEL



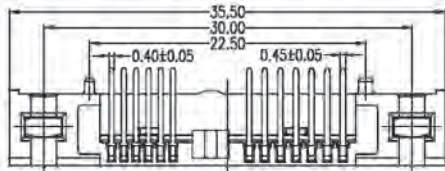
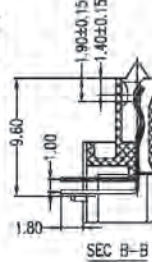
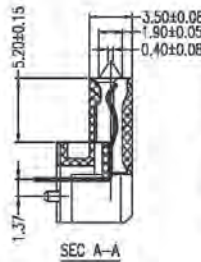
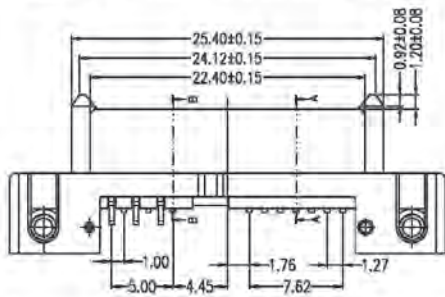
# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



**Recommended P.C. Board Layout  
Top View**



Pin Number	Signal Name	Pin Number	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

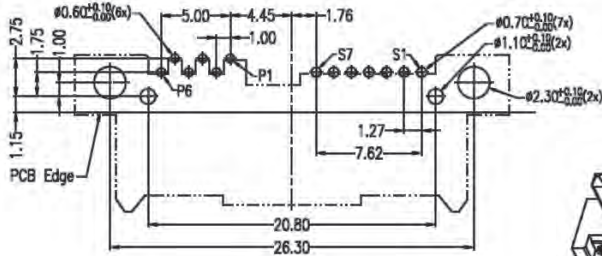
## ORDERING INFORMATION:

**P/N S A T A  $\frac{1}{I}$  3 - A  $\frac{3}{2}$  F B  $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$**

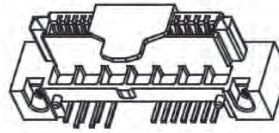
1. NO. OF CONTACTS:  
"13" 7P+6P
2. CONNECTOR CODE:  
"A3" R/A DIP TYPE (6.15)
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD



# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20mm)



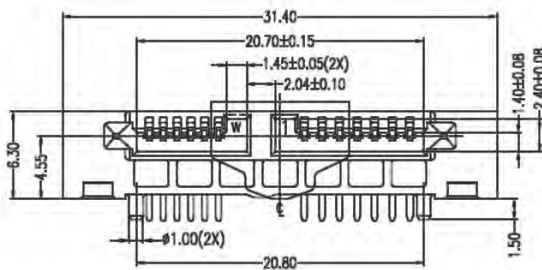
## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

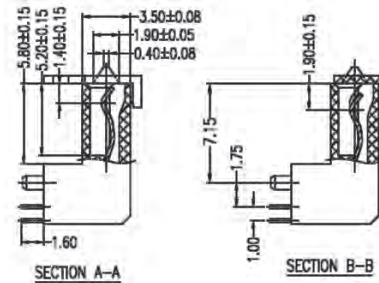
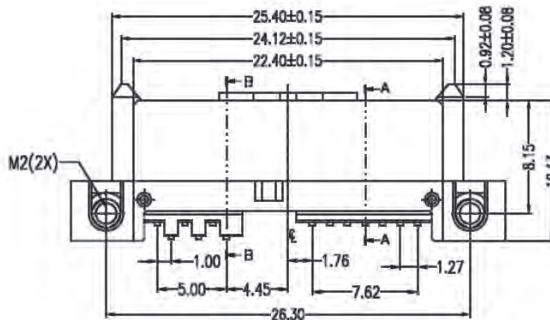
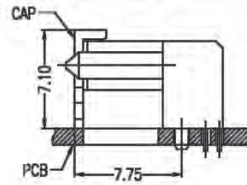
## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Au Plating on Contact Area;  
 Sn (100µ" Min.) Plating on Solder  
 Tail; Ni (40µ" Min.) Underplating  
 overall

\*RoHS & REACH compliant.



Pin No.	Signal Name	Pin No.	Power Name
S1	GND	P1	DIP
S2	AT+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	P	P5	GND
S6	BT+	P6	GND
S7	GND		

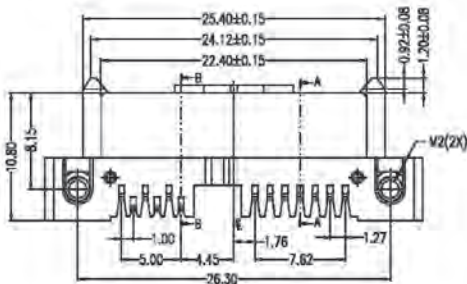
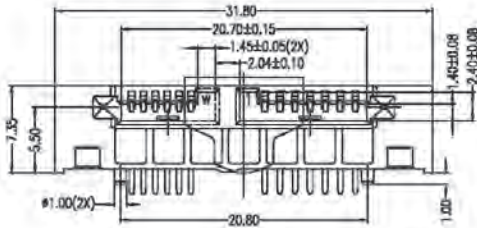
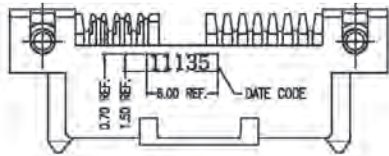
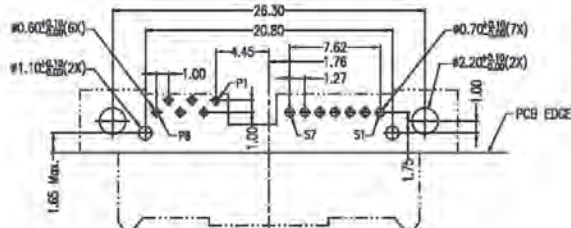


## ORDERING INFORMATION:

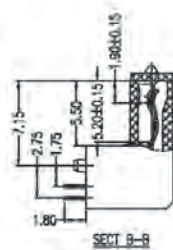
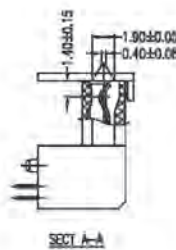
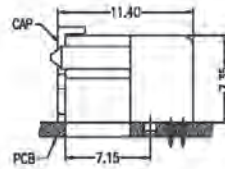
P/N S A T A  $\frac{13}{1}$  -  $\frac{A5}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$  -  $\frac{x}{5}$   $\frac{x}{6}$

- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"A5" R/A DIP TYPE WITH SCREWS
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD
- PACKAGE TYPE:  
"0" TRAY  
"Q" WITH PAD IN TAPE & REEL

# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Signal Segment		Power Segment	
Name	Type	Name	Type
S1	CH0	P1	+5V
S2	P	P2	+5V
S3	A	P3	+5V
S4	CH0	P4	+5V
S5	CH1	P5	+5V
S6	CH1	P6	+5V
S7	CH0	P7	+5V



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

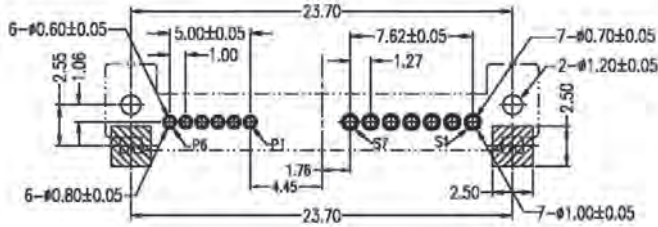


## ORDERING INFORMATION:

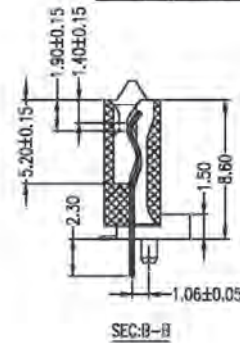
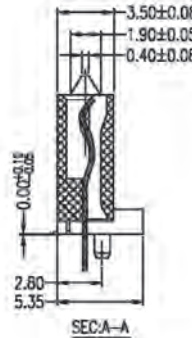
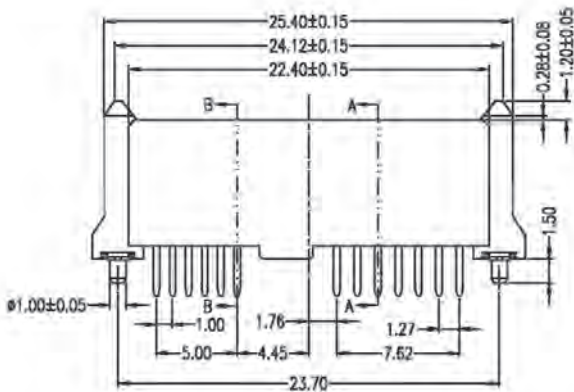
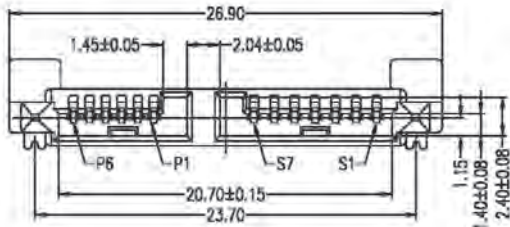
P/N S A T A  $\frac{13}{1}$  -  $\frac{A4}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$  -  $\frac{x}{5}$   $\frac{x}{6}$

- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"A4" R/A DIP TYPE WITH SCREWS
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD
- PACKAGE TYPE:  
"0" TRAY  
"Q" WITH PAD IN TAPE & REEL

# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C.Board Layout  
(T=1.60mm)



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

Pin Number	Signal Name	Pin Number	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		

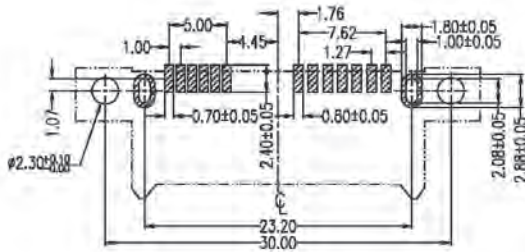
## ORDERING INFORMATION:

P/N S A T A  $\frac{13}{1}$  -  $\frac{H1}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$  -  $\frac{x}{5}$  -  $\frac{x}{6}$

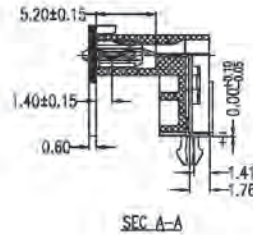
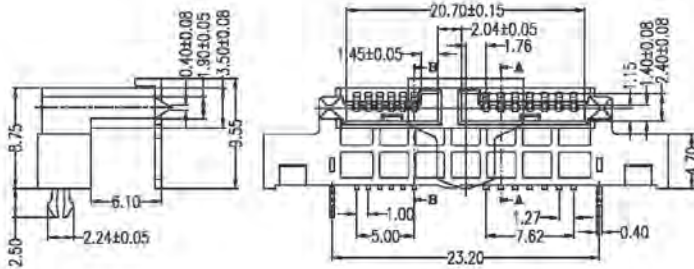
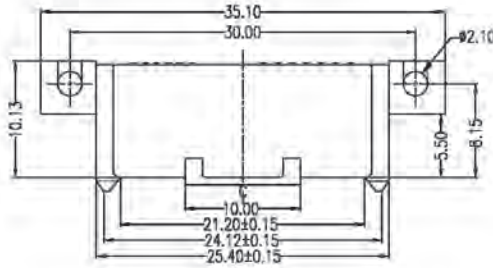
- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"H1" VERTICAL DIP TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

- PACKAGE TYPE:  
"0" TRAY  
"R" TAPE & REEL

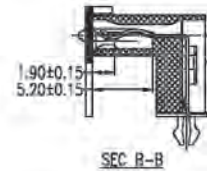
# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Top View (T=1.20mm)



SEC A-A



SEC B-B

Pin Number	Signal Name	Pin Number	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

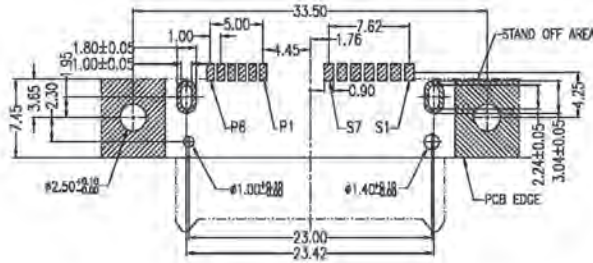
- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail
- \*RoHS & REACH compliant.

## ORDERING INFORMATION:

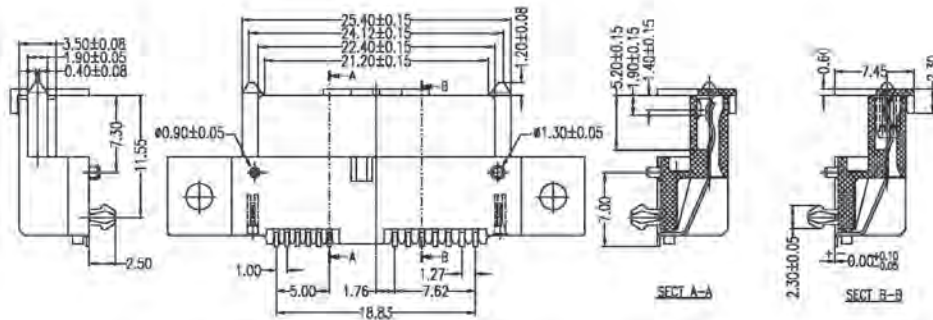
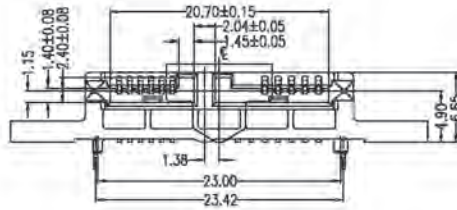
P/N S A T A  $\frac{13}{1}$  -  $\frac{S1}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"S1" SMT TYPE (8.75)
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

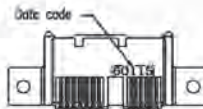
# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.20mm)



Pin No.	Signal Name	Pin No.	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	-5V
S4	DNG	P4	MD
S5	B-	P5	DND
S6	B+	P6	DND
S7	GND		



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

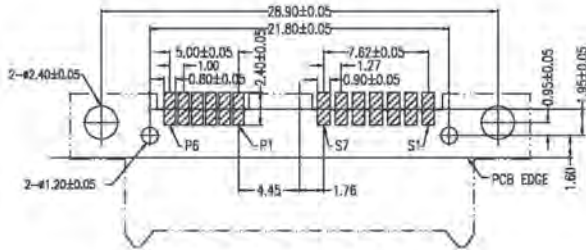
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

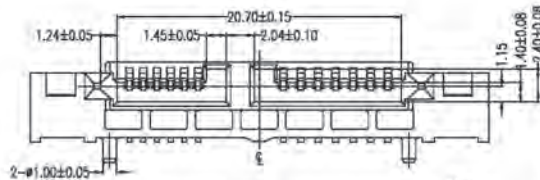
P/N S A T A  $\frac{13}{1}$  -  $\frac{S2}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"S2" SMT TYPE (6.65)
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

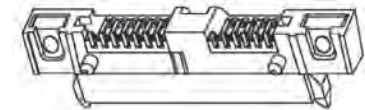
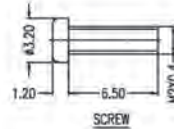
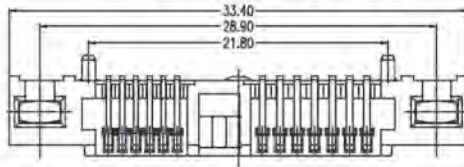
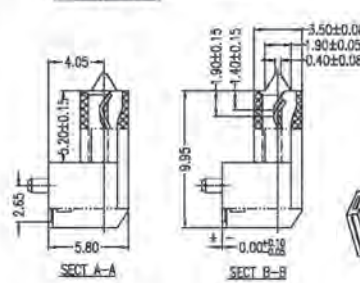
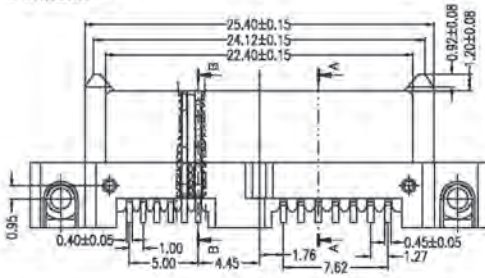
# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR SMT TYPE



**Recommended P.C.Board Layout  
Component Side (T=1.20mm)**



Pin No.	Signal Name	Pin No.	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

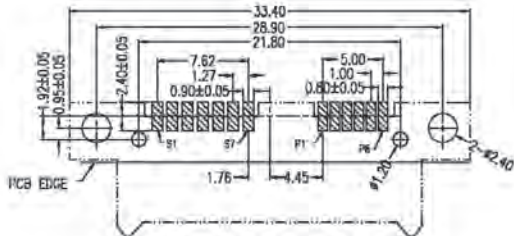
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

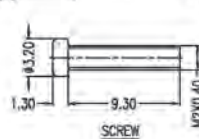
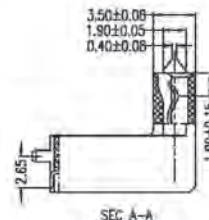
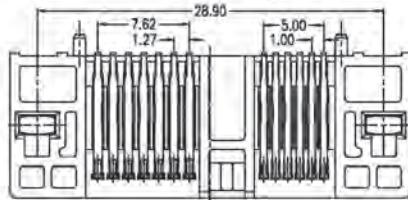
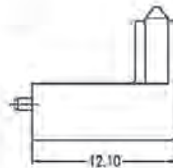
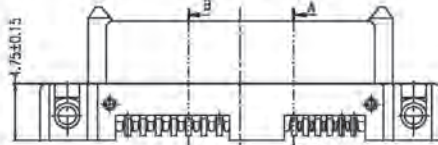
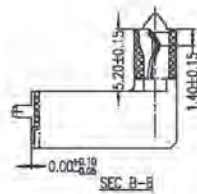
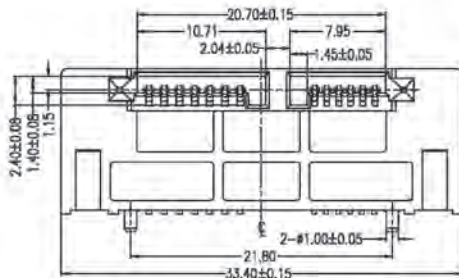
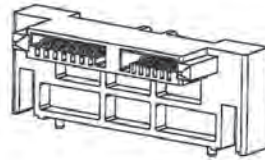
**P/N S A T A  $\frac{1}{I}$  3 - S  $\frac{3}{2}$  F B  $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$**

1. NO. OF CONTACTS:  
"13" 7P+6P
2. CONNECTOR CODE:  
"S3" SMT TYPE WITH SCREWS
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20mm)



Pin No.	Signal Name	Pin No.	Power Line Designation
S1	GN0	P1	D0
S2	A+	P2	+5V
S3	A-	P3	-5V
S4	GN0	P4	MD
S5	B-	P5	GN0
S6	B+	P6	GN0
S7	GN0		

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

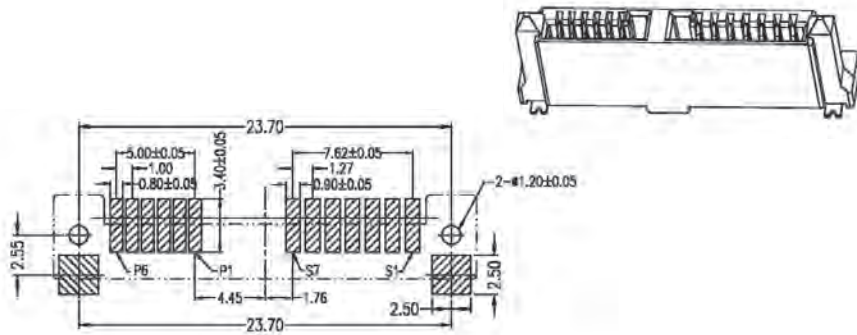
## ORDERING INFORMATION:

P/N S A T A  $\frac{13}{1}$  -  $\frac{S4}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"S4" REVERSE SMT TYPE WITH SCREWS
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD



# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR STRAIGHT SMT TYPE WITH POSTS



Recommended P.C.Board Layout



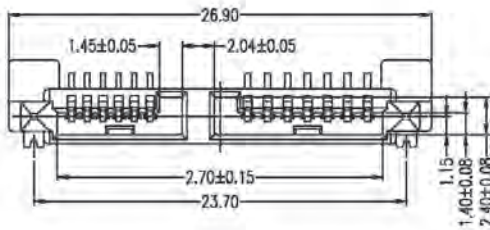
## SPECIFICATIONS

Current Rating: 1.5 Amperes  
 Insulation Resistance: 1000MΩ Min  
 Dielectric Withstanding: 500V AC  
 Contact Resistance: 30mΩ Max.  
 Operating Temperature: -55°C to +85°C

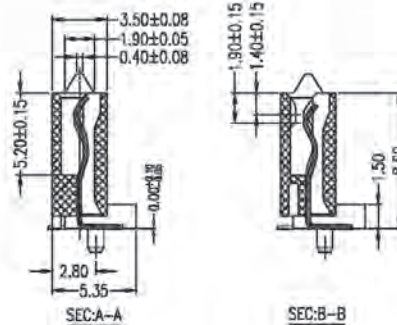
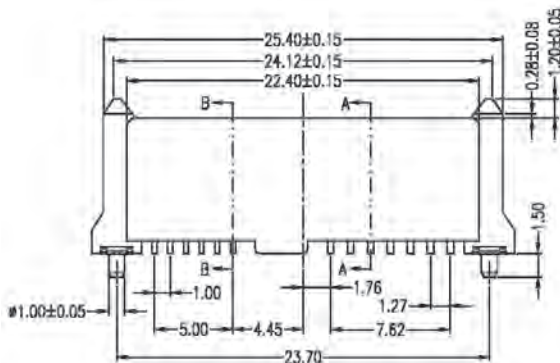
## MATERIALS

Housing: LCP, UL94V-0  
 Contact: Phosphor Bronze  
 Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



Pin Number	Signal Name	Pin number	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		

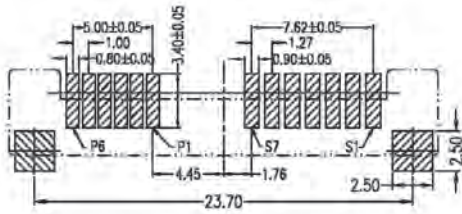


## ORDERING INFORMATION:

P/N S A T A  $\frac{13}{1}$  -  $\frac{S5}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"S5" VERTICAL SMT TYPE W/O POSTS
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR STRAIGHT SMT TYPE



Recommended P.C.Board Layout



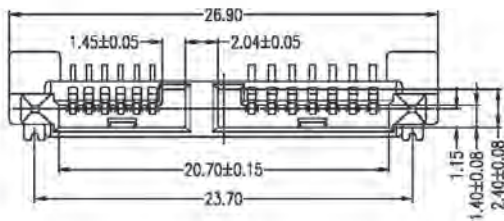
## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

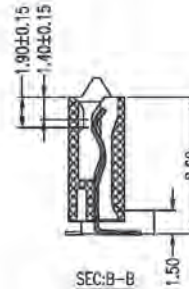
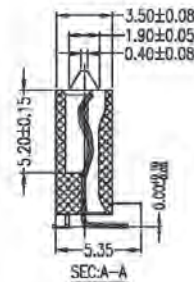
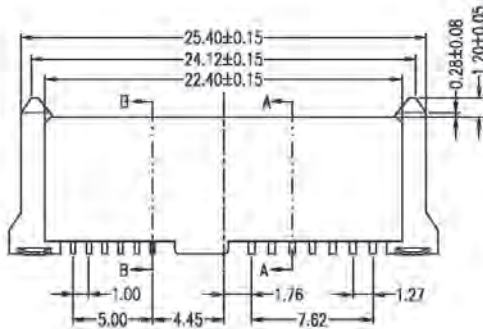
## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



Pin Number	Signal Name	Pin Number	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		

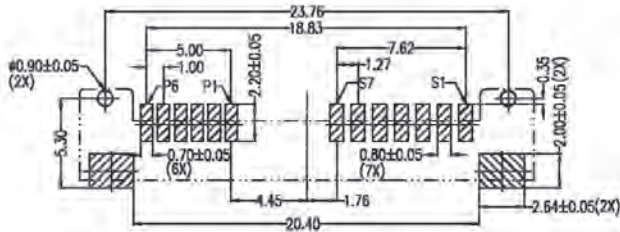


## ORDERING INFORMATION:

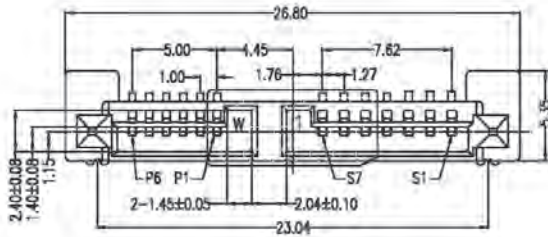
**P/N S A T A  $\frac{13}{1}$  -  $\frac{S6}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$**

1. NO. OF CONTACTS:  
"13" 7P+6P
2. CONNECTOR CODE:  
"S6" VERTICAL SMT TYPE W/O POST
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

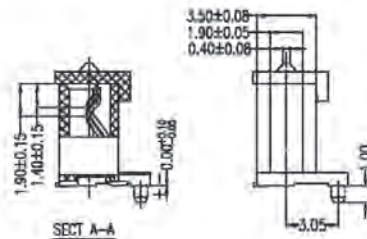
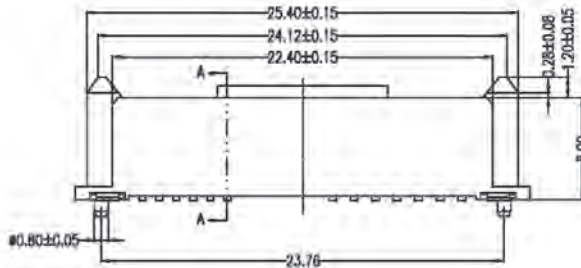
# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C. Board Layout Component Side



Pin NO.	Signal Name	Pin NO.	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		



## ORDERING INFORMATION:

P/N S A T A  $\frac{13}{1}$  -  $\frac{S7}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"13" 7P+6P
2. CONNECTOR CODE:  
"S7" SMT TYPE (7.20)
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## SPECIFICATIONS

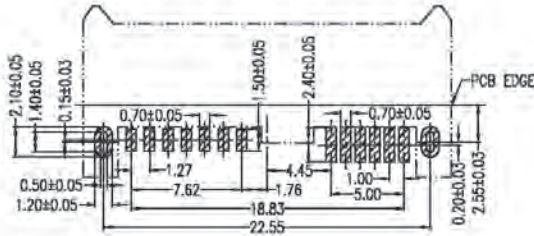
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

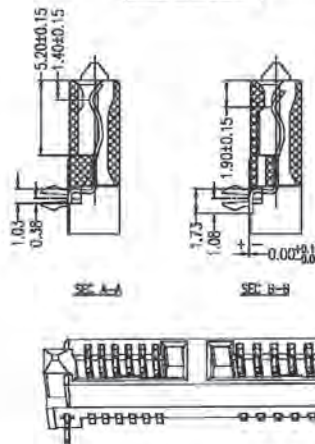
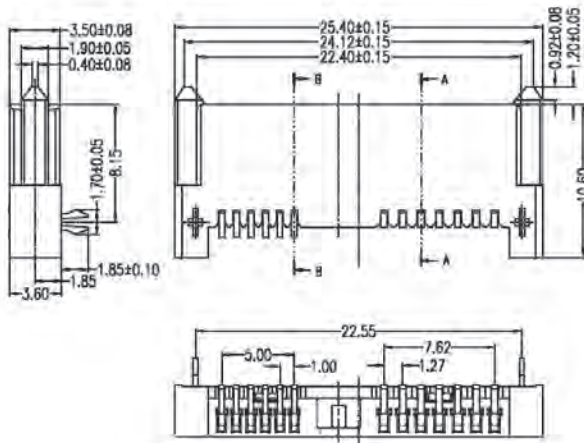
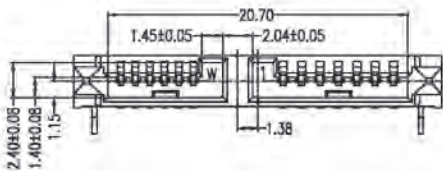
- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder Tail; Ni (40u" Min.) Underplating overall

\*RoHS & REACH compliant.

# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.20mm)



## SPECIFICATIONS

Current Rating: 1.5 Amperes  
Insulation Resistance: 1000MΩ Min  
Dielectric Withstanding: 500V AC  
Contact Resistance: 30mΩ Max.  
Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0  
Contact: Phosphor Bronze  
Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

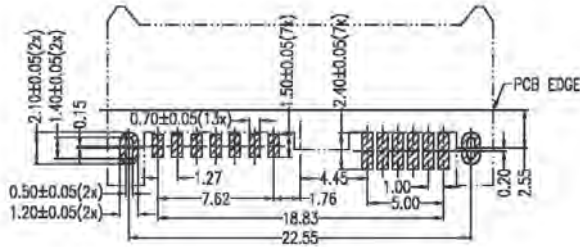
Pin Number	Signal Name	Pin Number	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		

## ORDERING INFORMATION:

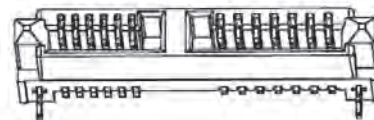
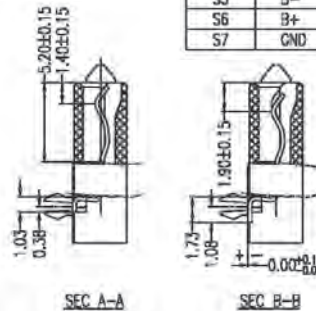
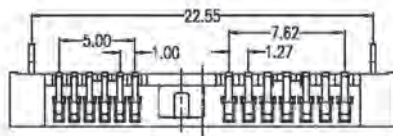
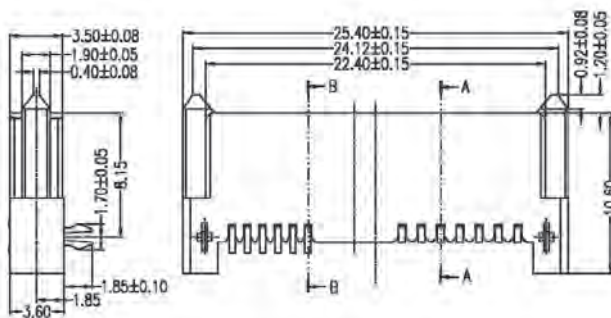
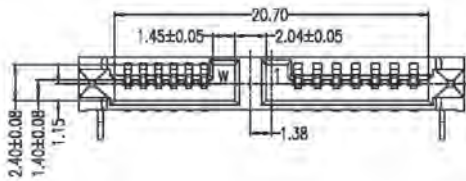
P/N S A T A  $\frac{13}{1}$  -  $\frac{S8}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"S8" SMT TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.20mm)



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100μ" Min.) Plating on Solder  
Tail; Ni (40μ" Min.) Underplating  
overall

\*RoHS & REACH compliant.

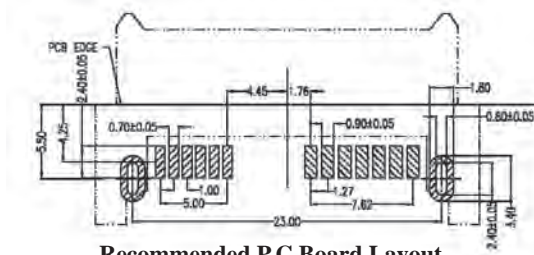
Pin Number	Signal Name	Pin Number	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		

## ORDERING INFORMATION:

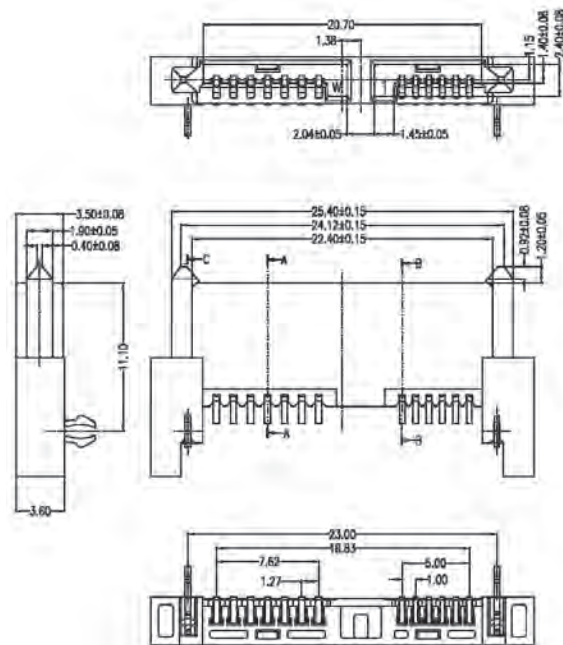
P/N S A T A  $\frac{13}{1}$  - S  $\frac{9}{2}$  F B  $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"S9" SMT TYPE W/O LOCK KEY
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

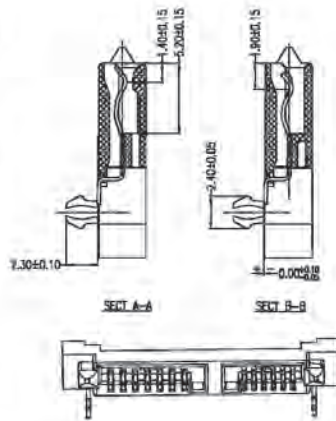
# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR UNDER BOARD SMT TYPE



**Recommended P.C.Board Layout**  
(T=1.00mm)



Pin Number	Signal Name	Pin Number	Power Line Designation
S1	GND	F1	DP
S2	A+	F2	+5V
S3	A-	F3	+5V
S4	CHD	F4	MD
S5	B-	F5	GND
S6	B+	F6	GND
S7	GND		



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

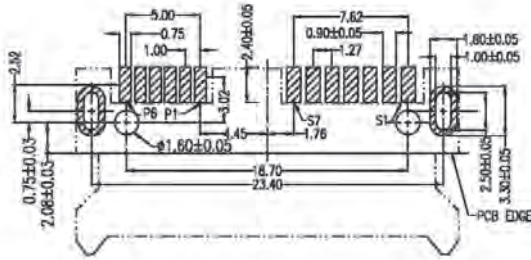
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

**P/N S A T A  $\frac{13}{1}$  -  $\frac{T1}{2}$   $\frac{FB}{3}$   $\frac{x}{4}$   $\frac{x}{5}$**

- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"T1" UNDER BOARD SMT TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.20mm)

Pin Number	Signal Name	Pin Number	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		

## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

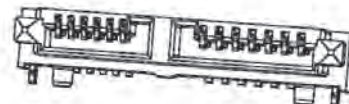
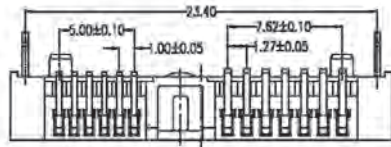
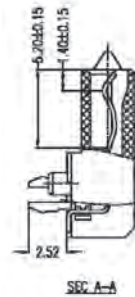
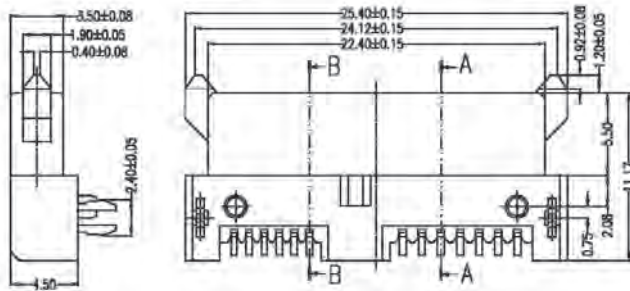
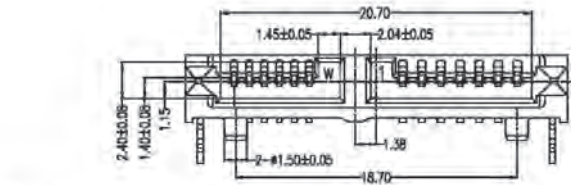
Plating: Au Plating on Contact Area;

Sn (100u" Min.) Plating on Solder

Tail; Ni (40u" Min.) Underplating

overall

\*RoHS & REACH compliant.

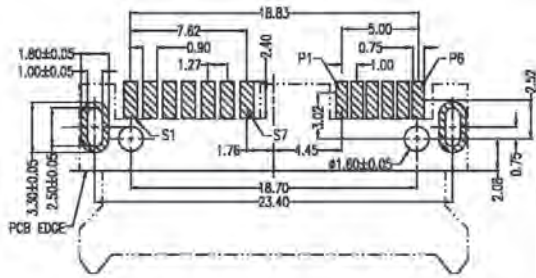


## ORDERING INFORMATION:

P/N S A T A  $\frac{13}{1}$  -  $\frac{T2}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"13" 7P+6P
2. CONNECTOR CODE:  
"T2" R/A SMT TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR UNDER BOARD SMT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.20mm)

Pin Number	Signal Name	Pin Number	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		

## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

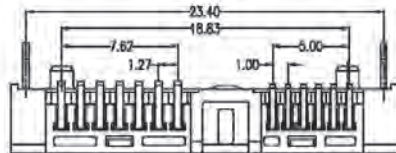
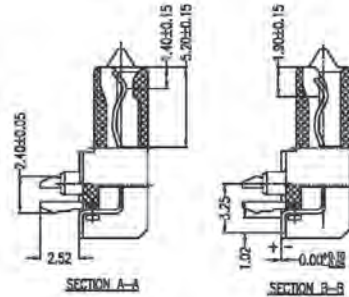
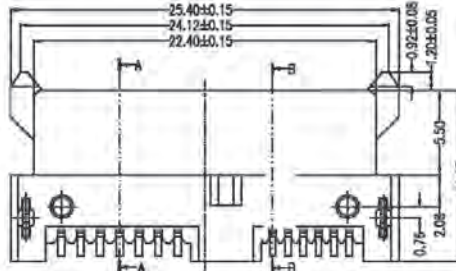
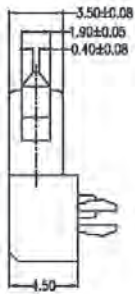
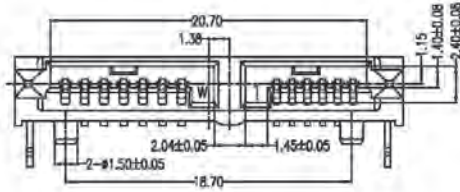
Plating: Au Plating on Contact Area;

Sn (100µ" Min.) Plating on Solder

Tail; Ni (40µ" Min.) Underplating

overall

\*RoHS & REACH compliant.



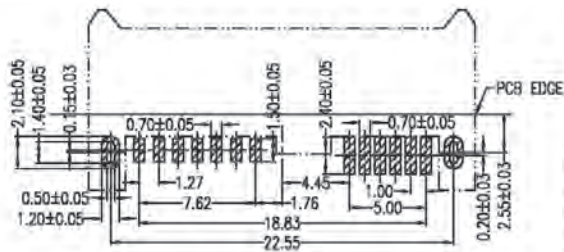
## ORDERING INFORMATION:

P/N S A T A  $\frac{13}{1}$  -  $\frac{T3}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"13" 7P+6P
2. CONNECTOR CODE:  
"T3" UNDER BOARD SMT TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD



# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C. Board Layout  
Top View (T=1.20mm)

Pin Number	Signal Name	Pin Number	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		

## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

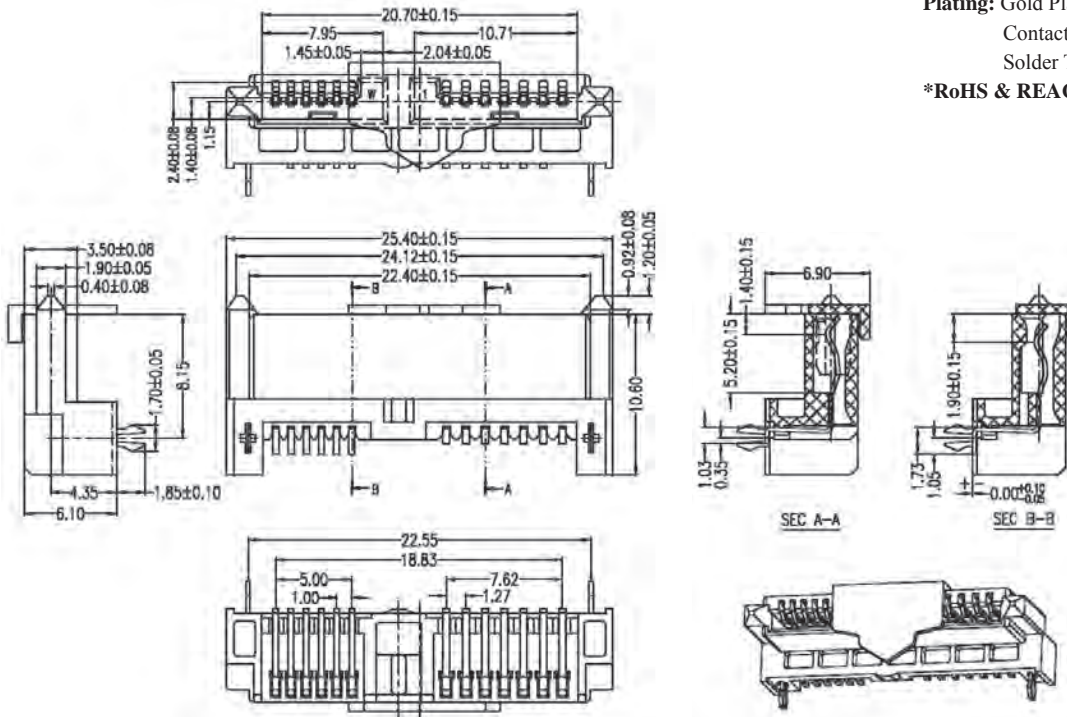
## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

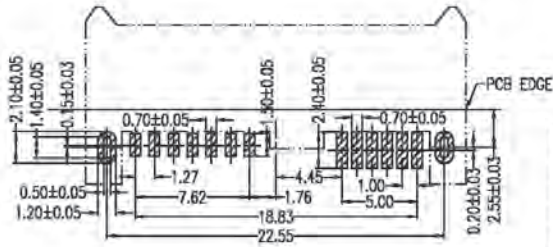


## ORDERING INFORMATION:

P/N S A T A  $\frac{13}{1}$  -  $\frac{T4}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"13" 7P+6P
2. CONNECTOR CODE:  
"T4" R/A SMT TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SLIM LINE SATA 7+6 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.20mm)

Pin No.	Signal Name	Pin No.	Power Line Designation
S1	GND	P1	DP
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		

## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

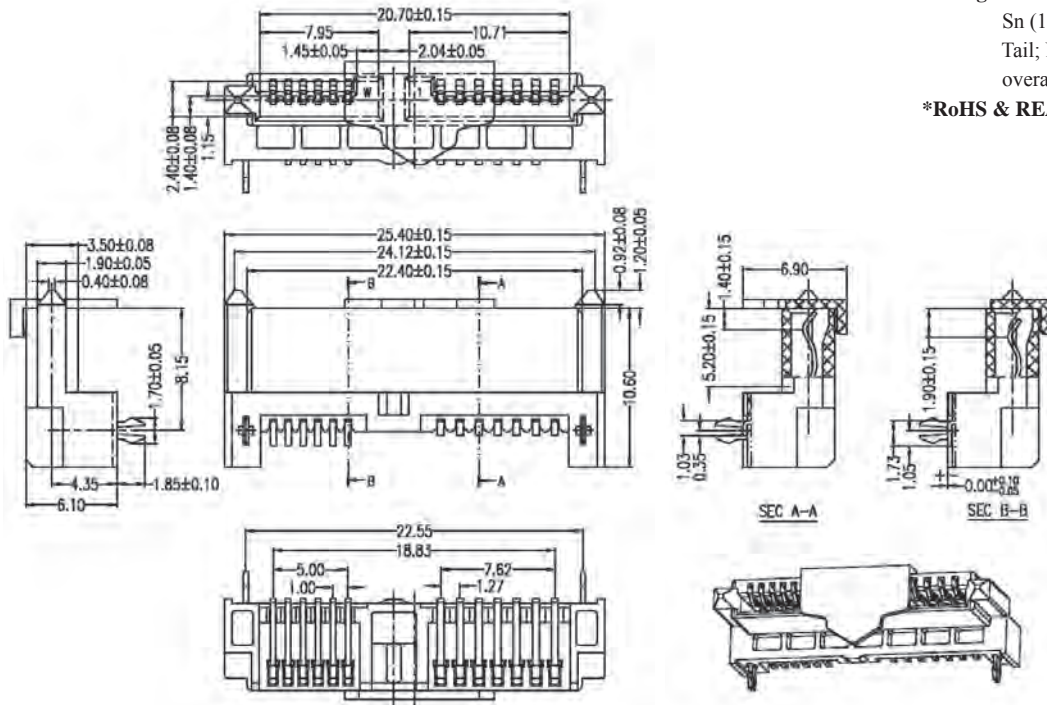
Plating: Au Plating on Contact Area;

Sn (100u" Min.) Plating on Solder

Tail; Ni (40u" Min.) Underplating

overall

\*RoHS & REACH compliant.

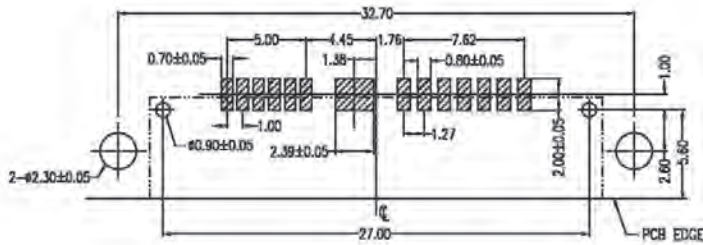


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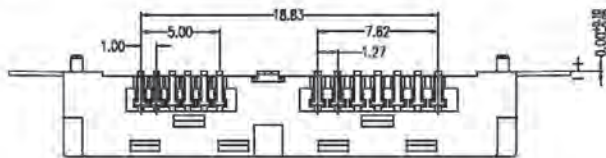
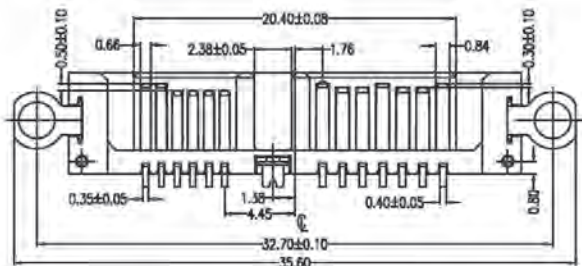
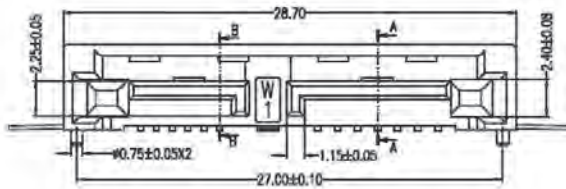
P/N S A T A  $\frac{13}{1}$  -  $\frac{T5}{2}$   $\frac{FB}{34}$   $\frac{x x}{5}$

1. NO. OF CONTACTS:  
"13" 7P+6P
2. CONNECTOR CODE:  
"T5" SMT TYPE W/O LOCK KEY
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SLIM LINE SATA 7+6 PIN MALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.60mm)



## SPECIFICATIONS

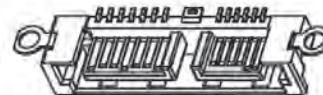
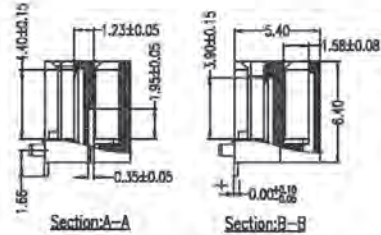
Current Rating: 1.5 Amperes  
Insulation Resistance: 1000MΩ Min  
Dielectric Withstanding: 500V AC  
Contact Resistance: 30mΩ Max.  
Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0  
Contact: Brass  
Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

Pin Number	Signal Name	Pin Number	Power Line Designator
S1	GND	P1	DF
S2	A+	P2	+5V
S3	A-	P3	+5V
S4	GND	P4	MD
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND		

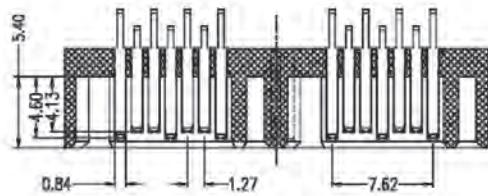


## ORDERING INFORMATION:

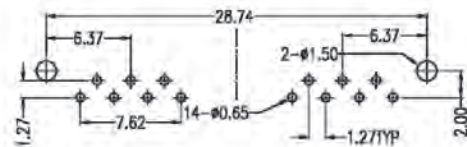
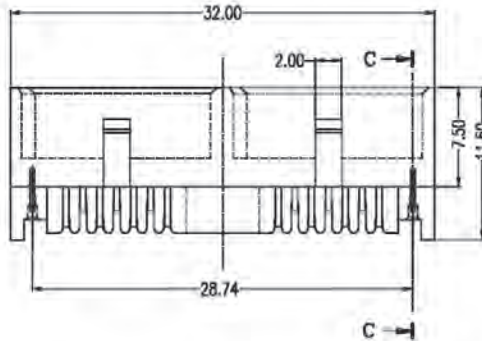
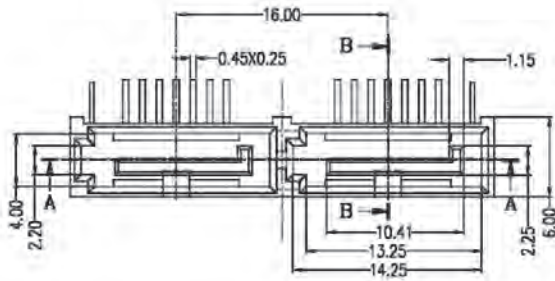
P/N S A T A  $\frac{13}{1}$  - T  $\frac{6}{2}$  M  $\frac{B}{3}$  X  $\frac{X}{4}$   $\frac{X}{5}$

- NO. OF CONTACTS:  
"13" 7P+6P
- CONNECTOR CODE:  
"T6" R/A SMT TYPE
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

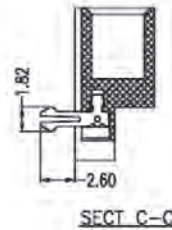
# SERIAL ATA (SATA) 7+7 PIN MALE CONNECTOR RIGHT ANGLE DIP TYPE



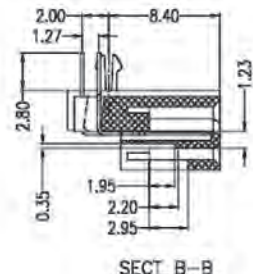
SECT A-A



Recommended P.C.Board Layout



SECT C-C



SECT B-B

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

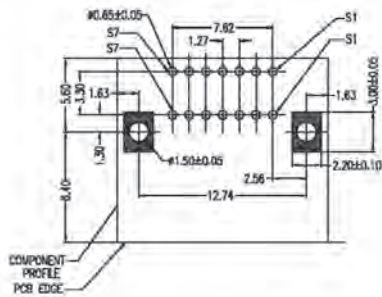
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N S A T A  $\frac{1}{I}$  14 -  $\frac{A}{2}$  1 M  $\frac{B}{3}$   $\frac{X}{4}$   $\frac{X}{5}$

- NO. OF CONTACTS:  
"14" 7P+7P
- CONNECTOR CODE:  
"A1" 7P+7P R/A DIP TYPE
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 14 PIN DOUBLE LAYER MALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=1.60mm)

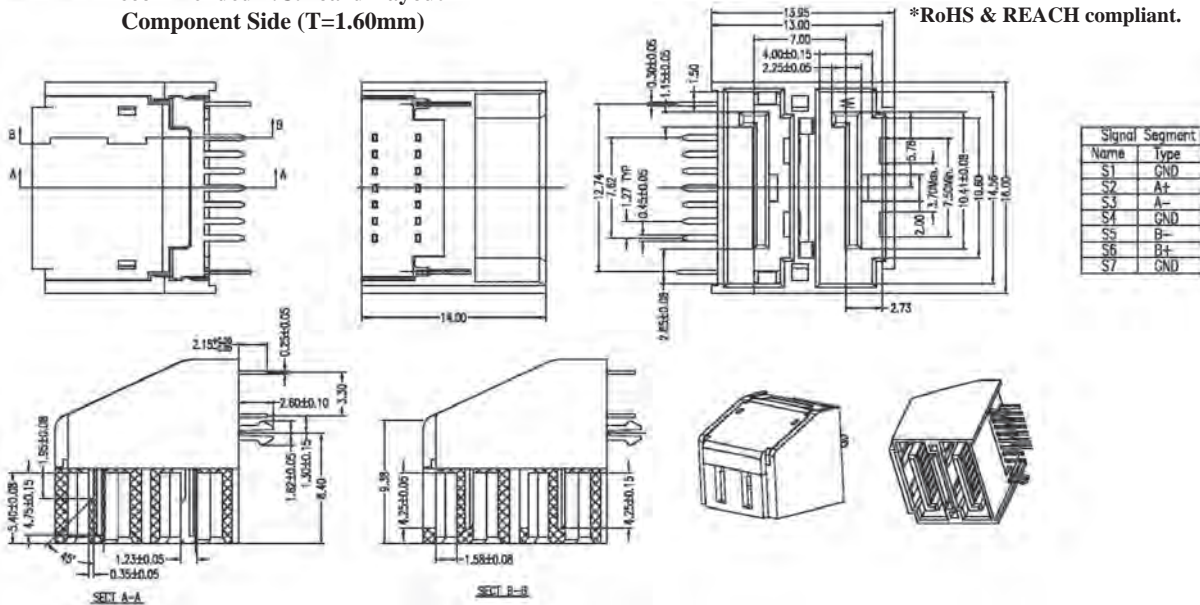
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: Nylon 66, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

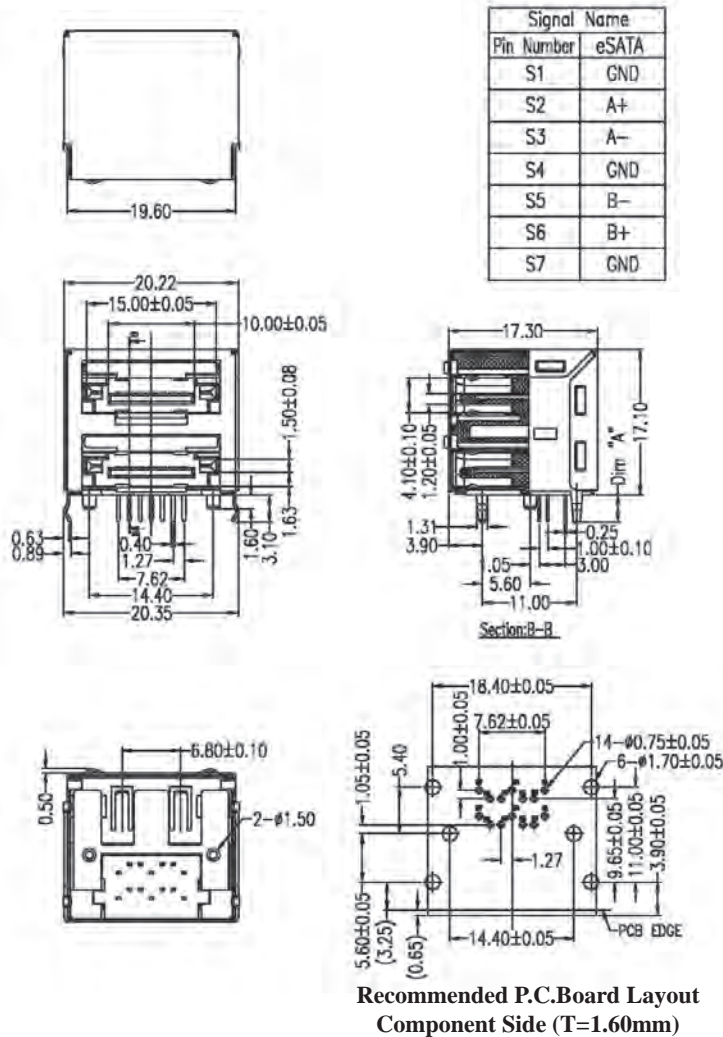


## ORDERING INFORMATION:

P/N S A T A  $\frac{14}{1}$  -  $\frac{A2}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"14" 7P+7P
2. CONNECTOR CODE:  
"A2" DOUBLE LAYER R/A DIP TYPE
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# eSATA 14 PIN DOUBLE LAYER MALE CONNECTOR RIGHT ANGLE DIP TYPE WITH POSTS



Pin Number	Signal Name
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND

## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** Nylon 46, UL94V-0  
**Contact:** Brass  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

\*RoHS & REACH compliant.

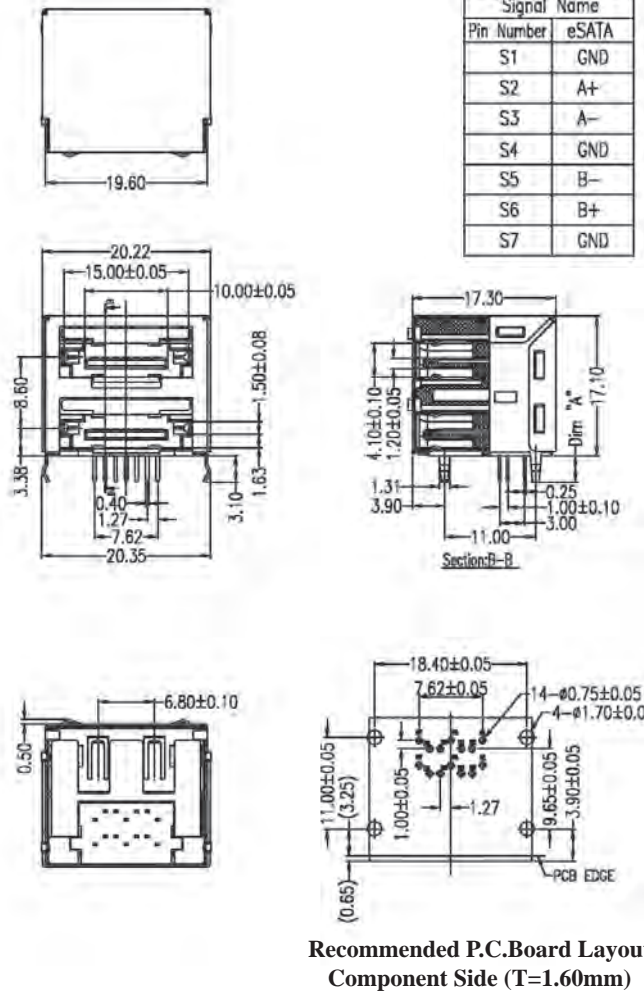
## ORDERING INFORMATION:

P/N S A T A  $\frac{14}{1}$  -  $\frac{xx}{2}$  M  $\frac{x}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"14" 7P+7P
- CONNECTOR CODE:  
"A3" DIM. A= 2.15MM  
"A4" DIM. A= 3.10MM
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK  
"U" BLUE 2935U  
"R" RED 187C  
"Y" YELLOW 810C

- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# eSATA 14 PIN DOUBLE LAYER MALE CONNECTOR RIGHT ANGLE DIP TYPE W/O POSTS

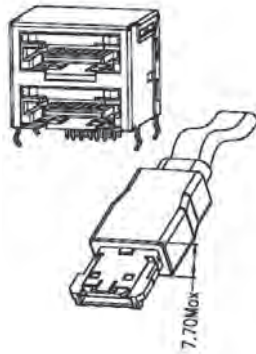


## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** Nylon 46, UL94V-0  
**Contact:** Brass  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall  
**\*RoHS & REACH compliant.**

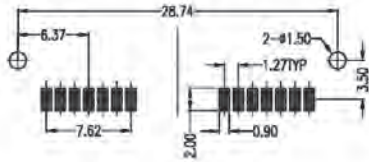


## ORDERING INFORMATION:

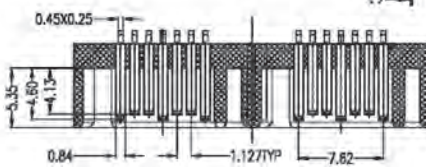
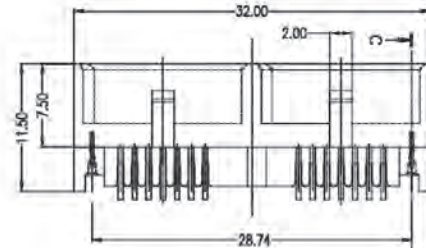
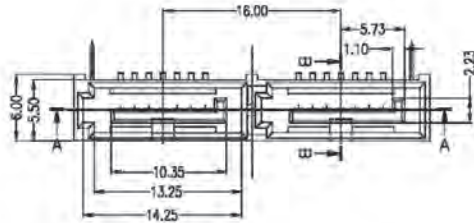
P/N S A T A  $\frac{14}{1}$  -  $\frac{xx}{2}$  M  $\frac{x}{3}$   $\frac{xx}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"14" 7P+7P
- CONNECTOR CODE:  
"A5" DIM. A= 2.15MM  
"A6" DIM. A= 3.10MM
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK  
"U" BLUE 2935U  
"R" RED 187C  
"Y" YELLOW 810C
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

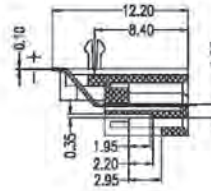
## SERIAL ATA (SATA) 7+7 PIN MALE CONNECTOR SMT TYPE



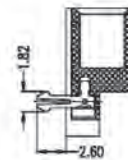
Recommended P.C.Board Layout



SECT A-A



SECT B-B



SECT C-C

### SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +85°C

### MATERIALS

**Housing:** LCP, UL94V-0

**Contact:** Brass

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N S A T A  $\frac{14}{1}$  -  $\frac{S1}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:

"14" 7P+7P

2. CONNECTOR CODE:

"S1" SATA FOR CARD

3. CONTACT TYPE:

"M" MALE

4. INSULATOR COLOR:

"B" BLACK

5. CONTACT FINISH:

"01" GOLD FLASH

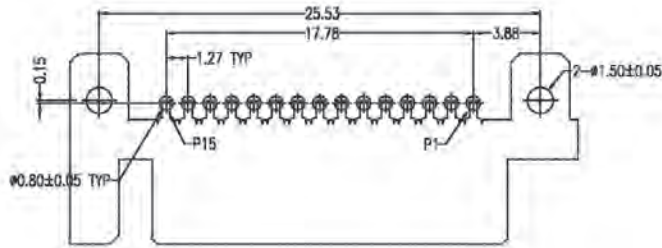
"05" 05 MICROINCH GOLD

"10" 10 MICROINCH GOLD

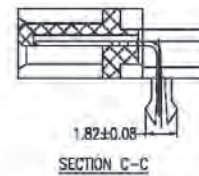
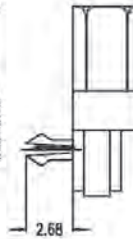
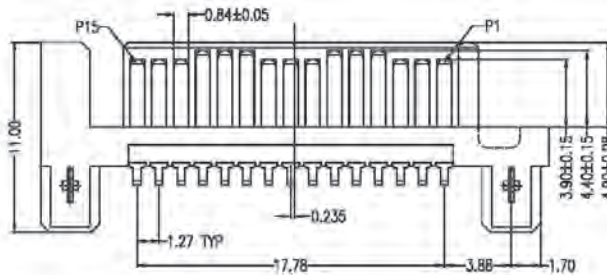
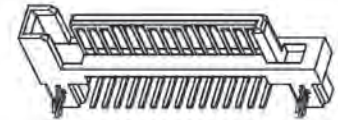
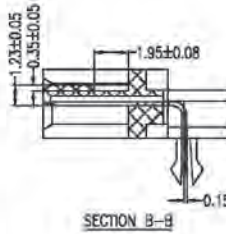
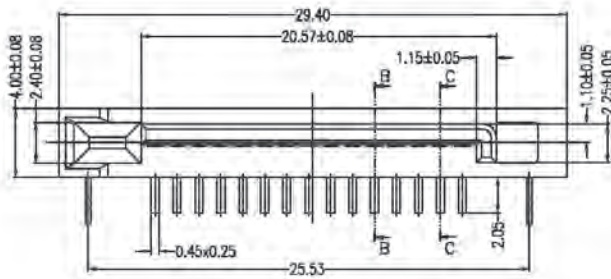
"15" 15 MICROINCH GOLD



# SERIAL ATA (SATA) 15 PIN MALE CONNECTOR RIGHT ANGLE DIP TYPE



**Recommended P.C. Board Layout  
Component Side (T=1.60mm)**



PIN NO.	SIGNAL NAME
P1	V33
P2	V33
P3	V33
P4	GND
P5	GND
P6	GND
P7	V5
P8	V5
P9	V5
P10	GND
P11	DAS/DSS
P12	GND
P13	V12
P14	V12
P15	V12

## ORDERING INFORMATION:

**P/N S A T A 15 - A1 M B xx**  
1 2 3 4 5

1. NO. OF CONTACTS:  
"15" 15P
2. CONNECTOR CODE:  
"A1" SATA FOR H.D.
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## SPECIFICATIONS

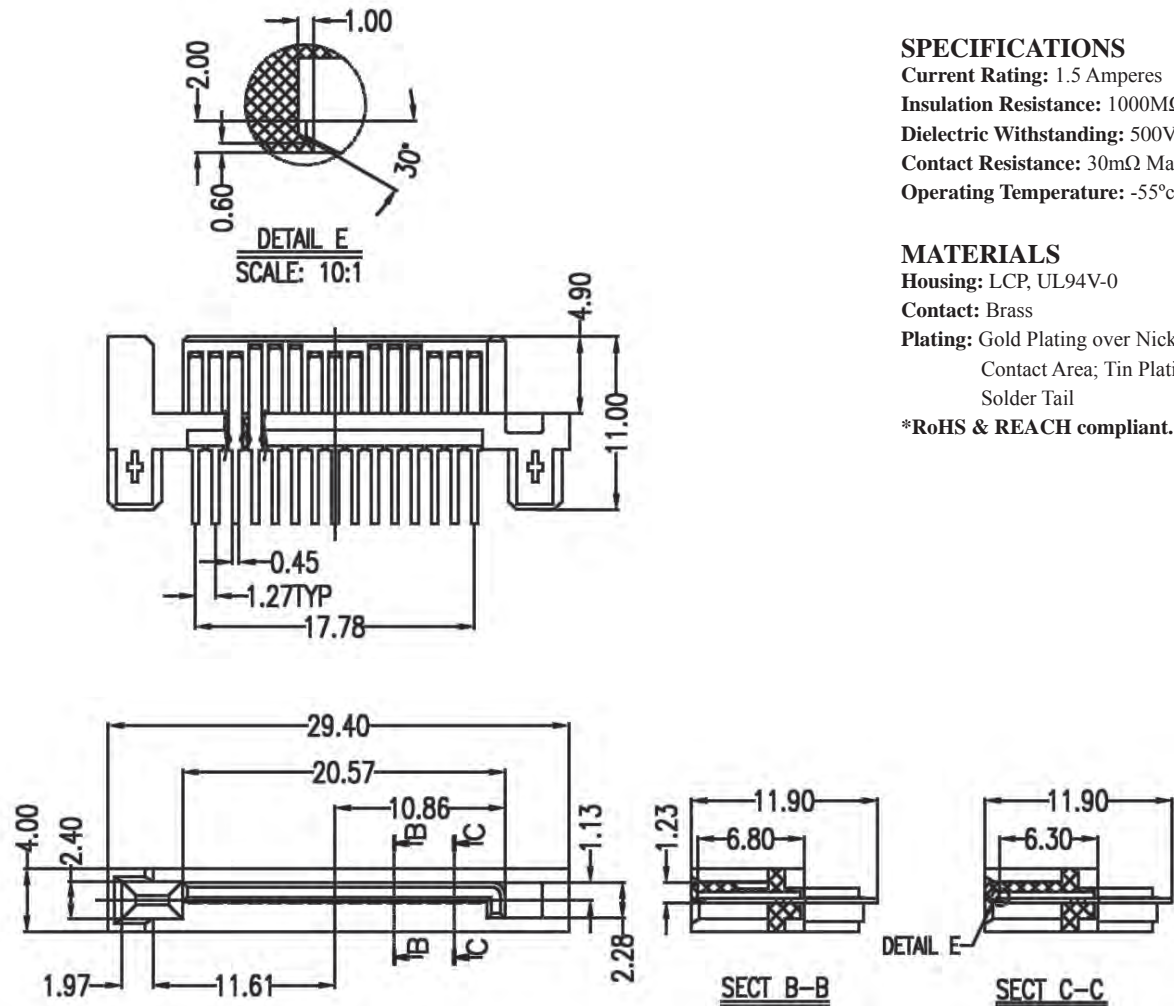
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

## SERIAL ATA (SATA) 15 PIN MALE CONNECTOR STRAIGHT CONTACT TYPE



### SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

### MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Brass  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

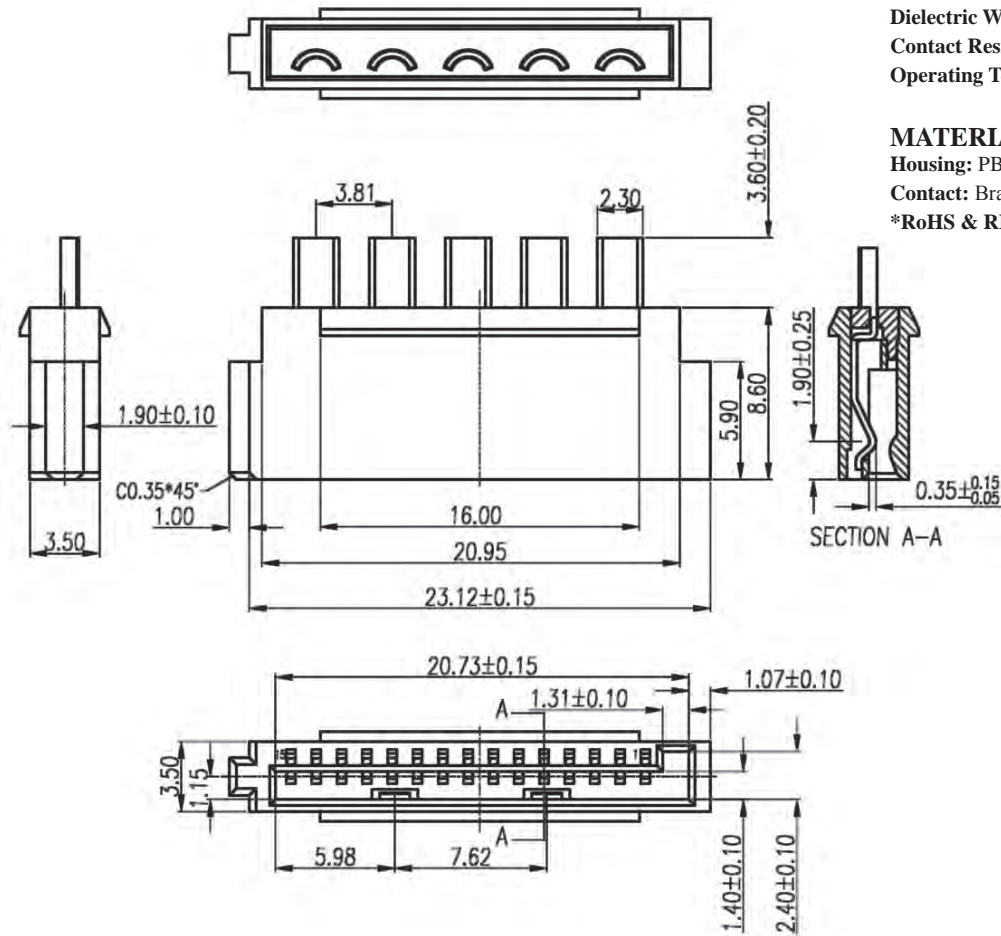
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N S A T A  $\frac{1}{1}$  5 - H  $\frac{1}{2}$  M B  $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"15" 15P
2. CONNECTOR CODE:  
"H1" SATA FOR H.D.
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SERIAL ATA (SATA) 15 PIN FEMALE CONNECTOR CABLE SOLDER TYPE



### SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

### MATERIALS

Housing: PBT, UL94V-0

Contact: Brass

\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N S A T A  $\frac{1}{I} 5 - \frac{N}{2} 1 \frac{F}{3} \frac{B}{4} \frac{x}{5} x$

1. NO. OF CONTACTS:  
"15" 15P
2. CONNECTOR CODE:  
"N1" SATA FOR POWER
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH

## SERIAL ATA (SATA) 15 PIN FEMALE CONNECTOR CABLE SOLDER TYPE

### SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +85°C

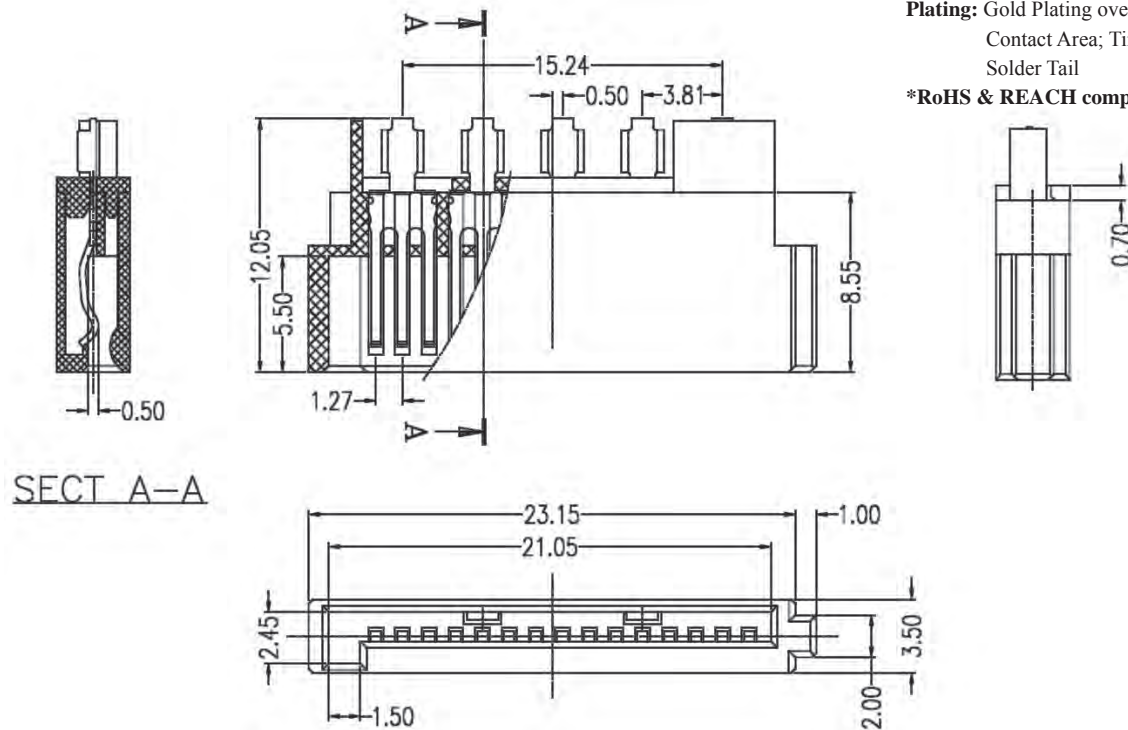
### MATERIALS

**Housing:** LCP, UL94V-0

**Contact:** Phosphor Bronze

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

**\*RoHS & REACH compliant.**



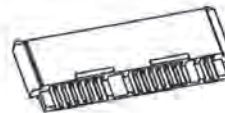
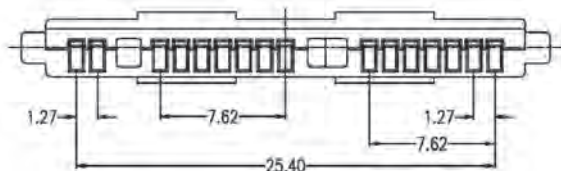
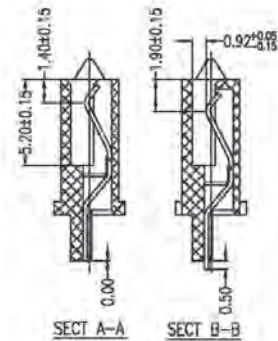
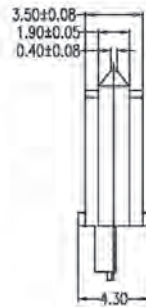
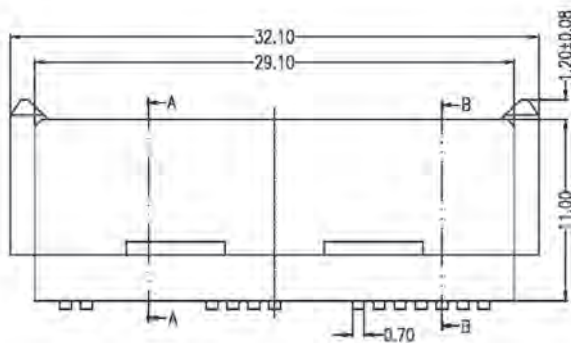
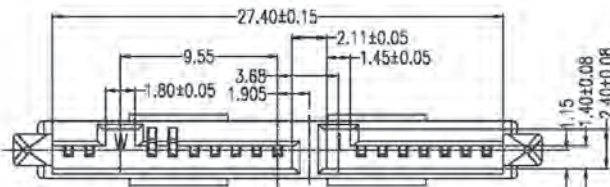
### ORDERING INFORMATION:

P/N S A T A  $\frac{1}{I} 5$  -  $\frac{N}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{x}{5} x$

1. NO. OF CONTACTS:  
"15" 15P
2. CONNECTOR CODE:  
"N2" SATA FOR POWER
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# MICRO SATA 7+7+2 PIN FEMALE CONNECTOR CABLE SOLDER TYPE

Pin Number	Signal Name	Pin Number	Power Line Designation
S1	GND	P1	+3.3V
S2	RX+	P2	+3.3V
S3	RX-	P3	GND
S4	GND	P4	GND
S5	TX-	P5	+5.5V
S6	TX+	P6	+5.5V
S7	GND	P7	DAS/DSS
		P8	Optional
		P9	Optional



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** LCP, UL94V-0

**Contact:** Phosphor Bronze

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

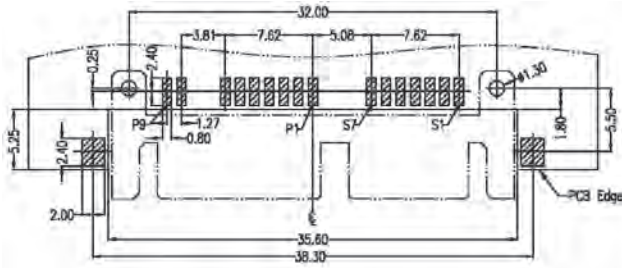
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

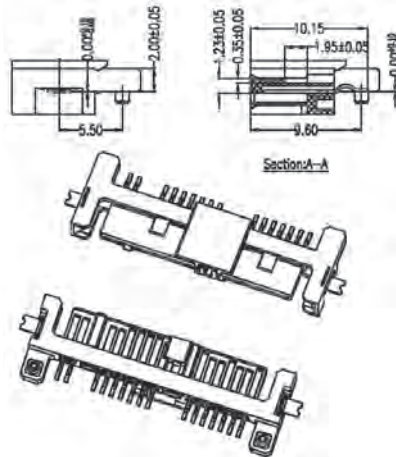
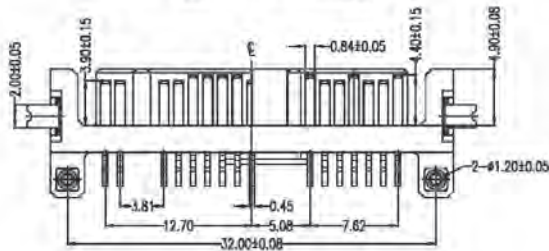
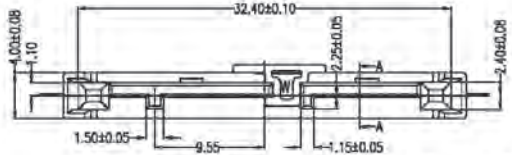
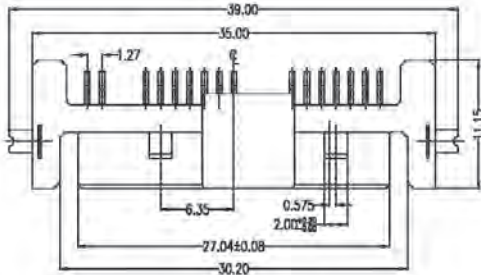
P/N S A T A  $\frac{1}{I}$  16 - N  $\frac{1}{2}$  F  $\frac{B}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"16" 7P+7P+2P
2. CONNECTOR CODE:  
"N1" CABLE SOLDER TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+7+2 PIN MALE CONNECTOR SMT TYPE WITH COVER



Recommended P.C. Board Layout  
Top View (T=0.85mm)



Pin Number	Signal Name
S1	GND
S2	FX+
S3	FX-
S4	GND
S5	TX-
S6	TX+
S7	GND

Pin Number	Power Line Designation
P1	+3.3V
P2	+3.3V
P3	GND
P4	GND
P5	+5.0V
P6	+5.0V
P7	DAS/DSS
P8	Optional
P9	Optional

## ORDERING INFORMATION:

P/N S A T A  $\frac{16}{1}$  -  $\frac{S1}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"16" 7P+7P+2P
2. CONNECTOR CODE:  
"S1" SMT TYPE WITH COVER
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

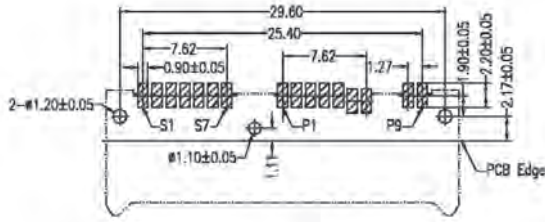
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

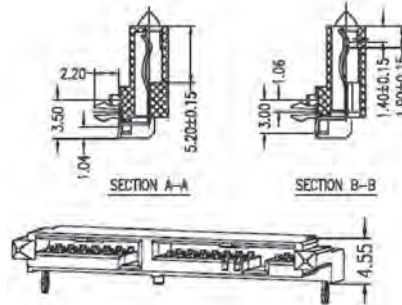
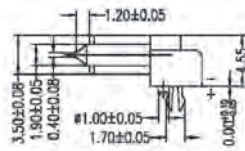
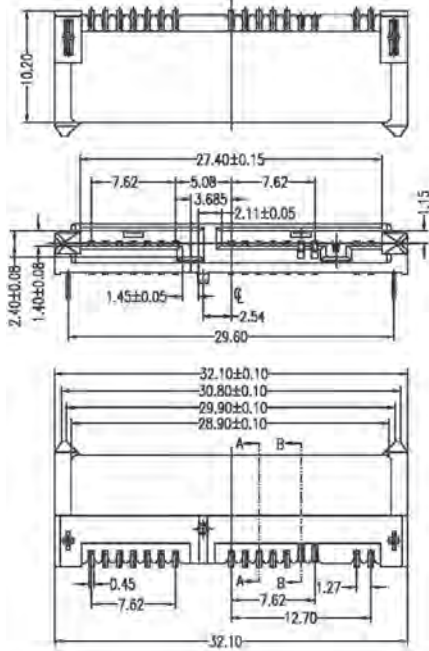
## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail
- \*RoHS & REACH compliant.

# MICRO SATA 7+7+2 PIN FEMALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C.Board Layout  
Top View (T=1.00mm)



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

Pin Number	Signal Name
S1	GND
S2	RX+
S3	RX-
S4	GND
S5	TX-
S6	TX+
S7	GND

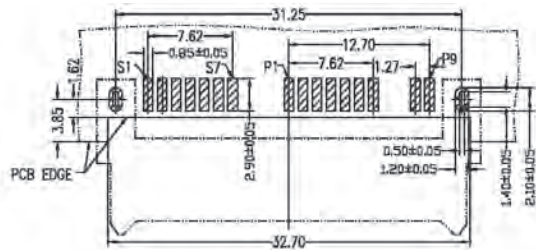
Pin Number	Power Line Designation
P1	+3.3V
P2	+3.3V
P3	GND
P4	GND
P5	+5.5V
P6	+5.5V
P7	DAS/DSS
P8	Optional
P9	Optional

## ORDERING INFORMATION:

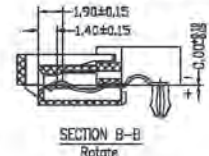
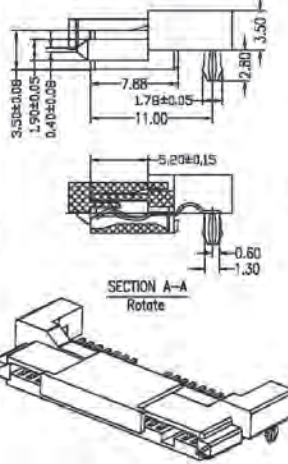
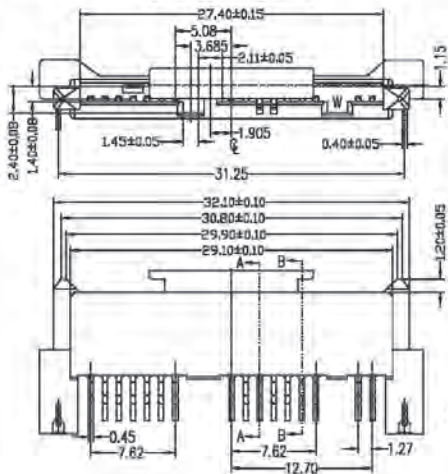
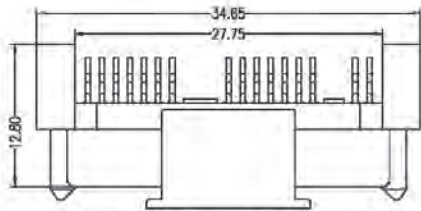
P/N S A T A  $\frac{16}{1}$  -  $\frac{S2}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"16" 7P+7P+2P
2. CONNECTOR CODE:  
"S2" REVERSE SMT TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# MICRO SATA 7+7+2 PIN FEMALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)



Pin Number	Signal Name
S1	GND
S2	RX+
S3	RX-
S4	GND
S5	TX-
S6	TX+
S7	GND

Pin Number	Power Line Designation
P1	+3.3V
P2	+3.3V
P3	GND
P4	GND
P5	+5.5V
P6	+5.5V
P7	DAS/DSS
P8	Optional
P9	Optional

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

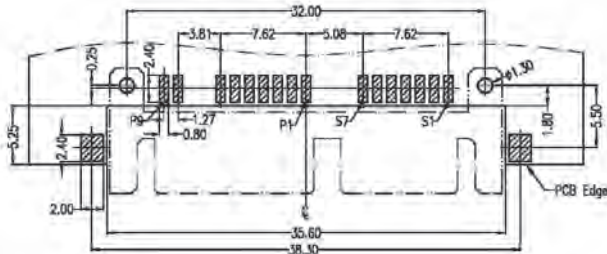
## ORDERING INFORMATION:

P/N S A T A  $\frac{16}{1}$  -  $\frac{S3}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

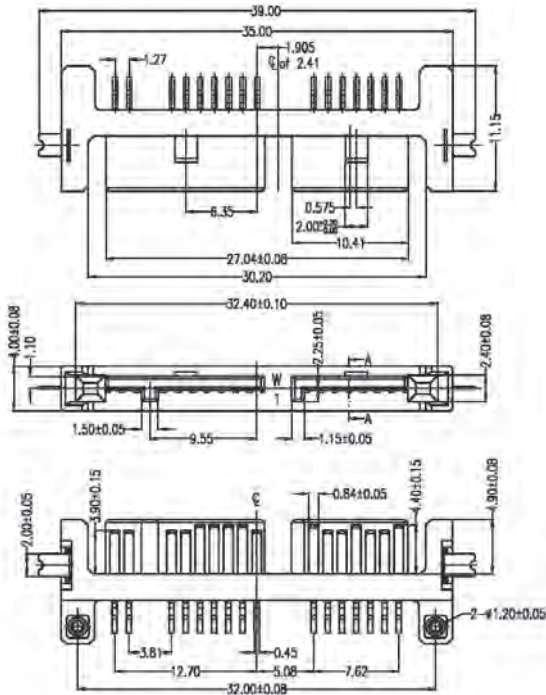
- NO. OF CONTACTS:  
"16" 7P+7P+2P
- CONNECTOR CODE:  
"S3" REVERSE SUBSIDE SMT TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD



# SERIAL ATA (SATA) 7+7+2 PIN MALE CONNECTOR SMT TYPE

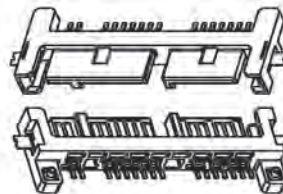
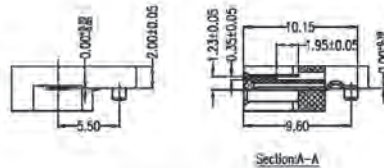


Recommended P.C.Board Layout  
Top View (T=0.85mm)



Pin Number	Signal Name
S1	GND
S2	RD+
S3	RD-
S4	GND
S5	TK-
S6	TK+
S7	GND

Pin Number	Power Line Designation
P1	+3.3V
P2	+3.3V
P3	GND
P4	GND
P5	+5.0V
P6	+5.0V
P7	DMS/DMS
P8	Optional
P9	Optional



## SPECIFICATIONS

Current Rating: 1.5 Amperes  
Insulation Resistance: 1000MΩ Min  
Dielectric Withstanding: 500V AC  
Contact Resistance: 30mΩ Max.  
Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0  
Contact: Brass  
Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

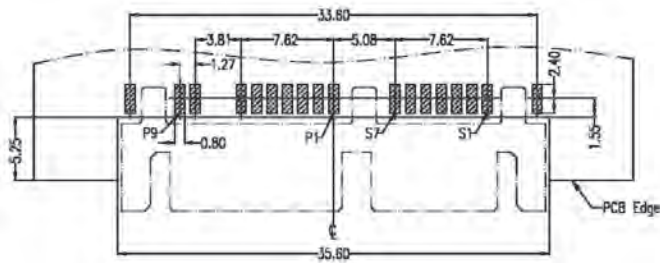
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

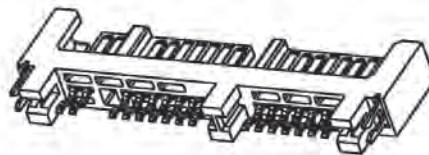
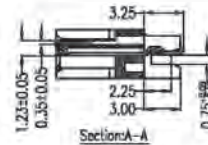
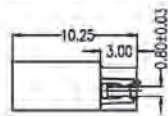
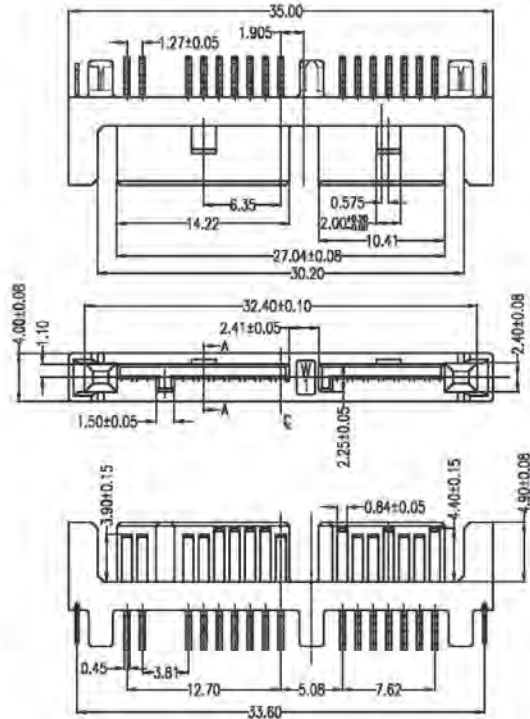
P/N S A T A  $\frac{1}{1}$  6 - S  $\frac{4}{2}$  M  $\frac{B}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"16" 7P+7P+2P
2. CONNECTOR CODE:  
"S4" SMT TYPE
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+7+2 PIN MALE CONNECTOR STRADDLE TYPE



Recommended P.C. Board Layout  
Top View (T=0.85mm)



## SPECIFICATIONS

Current Rating: 1.5 Amperes  
Insulation Resistance: 1000MΩ Min  
Dielectric Withstanding: 500V AC  
Contact Resistance: 30mΩ Max.  
Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0  
Contact: Brass  
Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

Pin Number	Signal Name
S1	GND
S2	RX+
S3	RX-
S4	GND
S5	TX-
S6	TX+
S7	GND

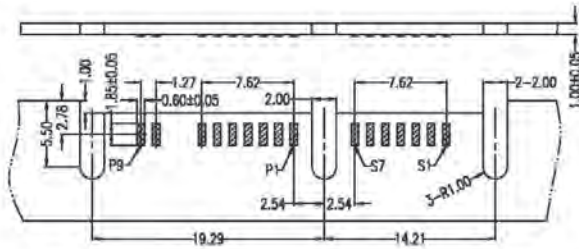
Pin Number	Power Line Designation
P1	+3.3V
P2	+3.3V
P3	GND
P4	GND
P5	+5.5V
P6	+5.5V
P7	DA5/DB5
P8	Optional
P9	Optional

## ORDERING INFORMATION:

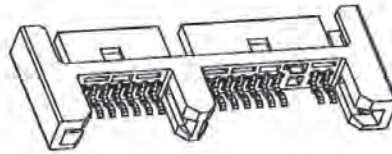
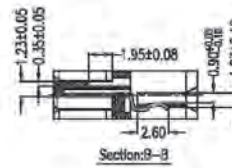
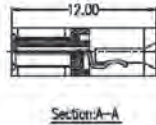
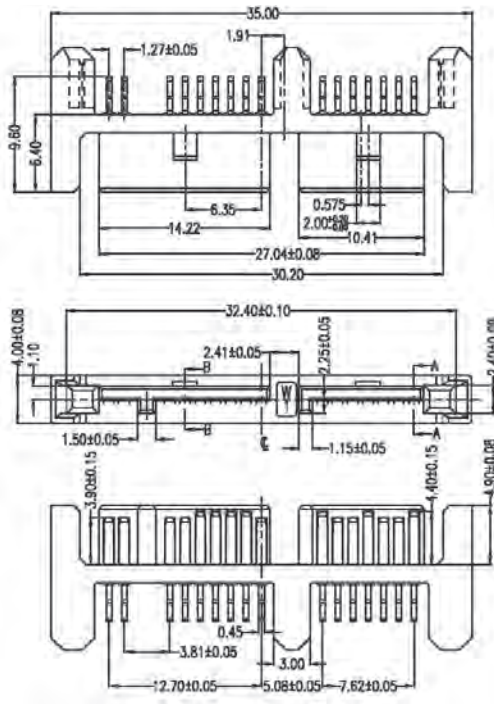
P/N S A T A  $\frac{1}{1}$  6 - S  $\frac{5}{2}$  M B  $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"16" 7P+7P+2P
- CONNECTOR CODE:  
"S5" STRADDLE TYPE
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SERIAL ATA (SATA) 7+7+2 PIN MALE CONNECTOR STRADDLE TYPE



Recommended P.C.Board Layout



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

Pin Number	Signal Name	Description
S1	GND	
S2	A+	Differential Signal
S3	A-	
S4	GND	
S5	B-	Differential Signal
S6	B+	
S7	GND	

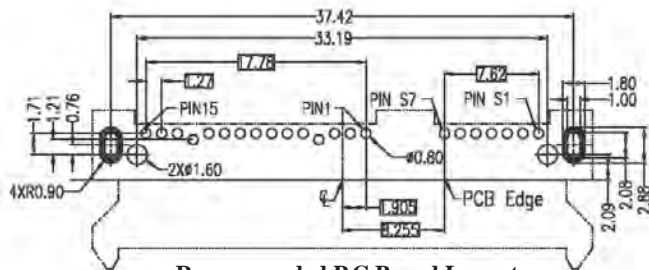
Pin Number	Power Designation
P1	+3.3V
P2	+3.3V
P3	GND
P4	GND
P5	+5V
P6	+5V
P7	Reserved
P8	Optional
P9	Optional

## ORDERING INFORMATION:

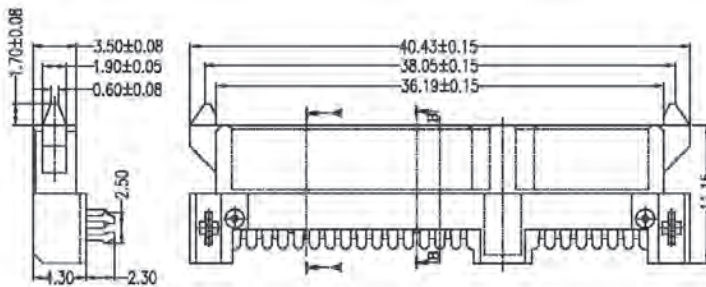
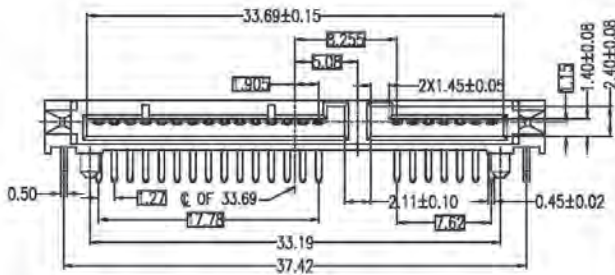
P/N S A T A  $\frac{16}{1}$  -  $\frac{S6}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{XX}{5}$

- NO. OF CONTACTS:  
"16" 7P+7P+2P
- CONNECTOR CODE:  
"S6" STRADDLE TYPE
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

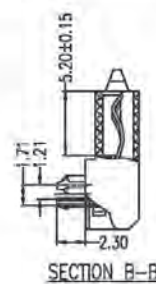
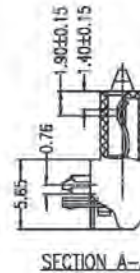
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout  
Component Side (T=1.20mm)



Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V3.3	P9	V5
S2	Alt	P2	V3.3	P10	GND
S3	Alt	P3	V3.3	P11	DAS/DSS
S4	Alt	P4	GND	P12	GND
S5	GND	P5	GND	P13	V12
S6	Alt	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		



## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{A1}{2}$   $\frac{FB}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"A1" R/A DIP TYPE HEIGHT=4.30MM
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## SPECIFICATIONS

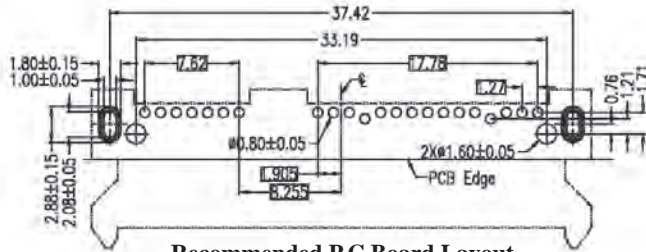
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

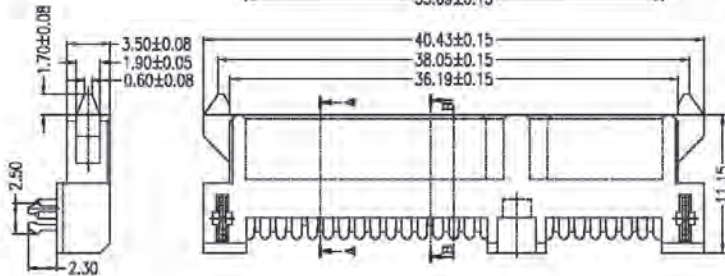
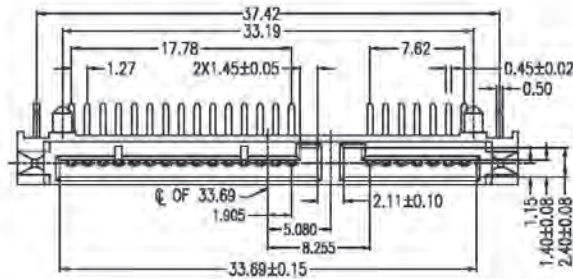
- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

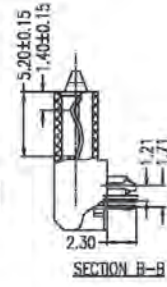
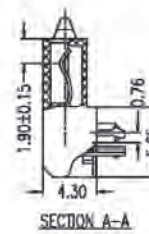
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT RIGHT ANGLE DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20mm)



Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V33	P9	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	F-	P5	GND	P13	V12
S6	F+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		



## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{A2}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"A2" REVERSE R/A DIP TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SPECIFICATIONS

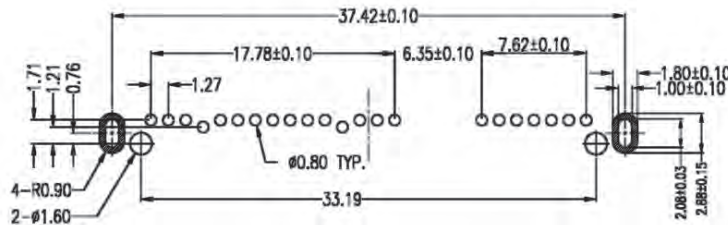
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

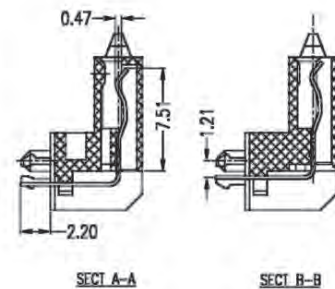
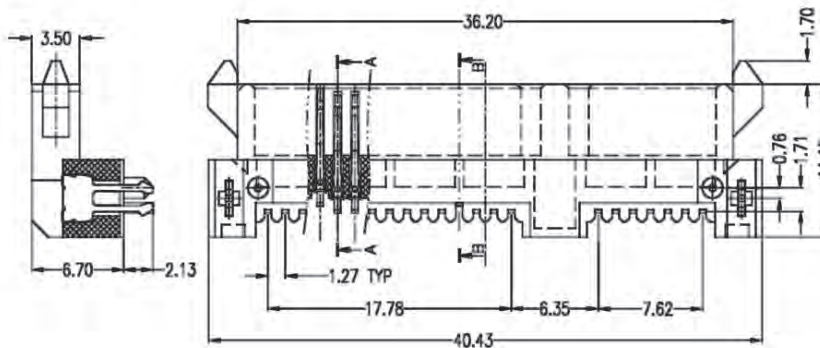
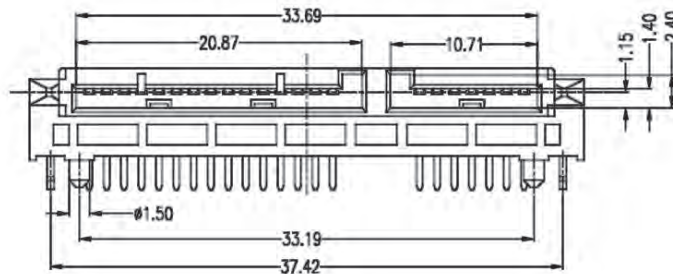
- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout  
(T=1.60mm)



## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +125°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Gold Plating over Nickel on  
Contact Area; Tin Plating on  
Solder Tail

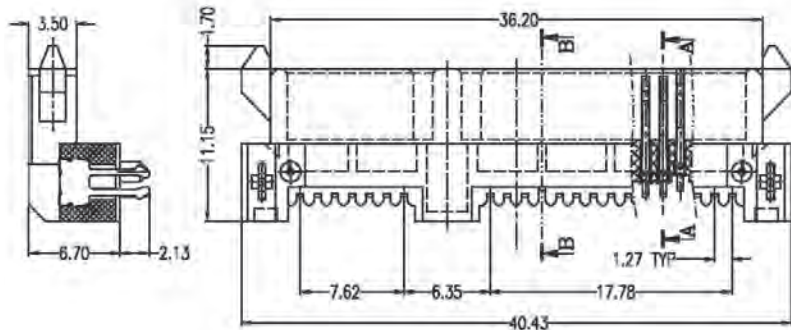
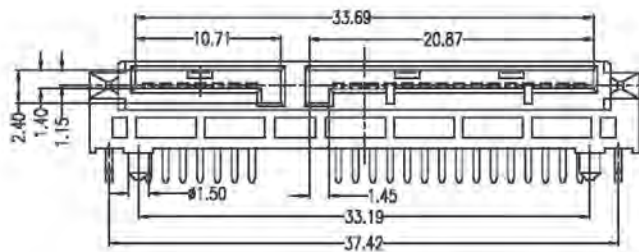
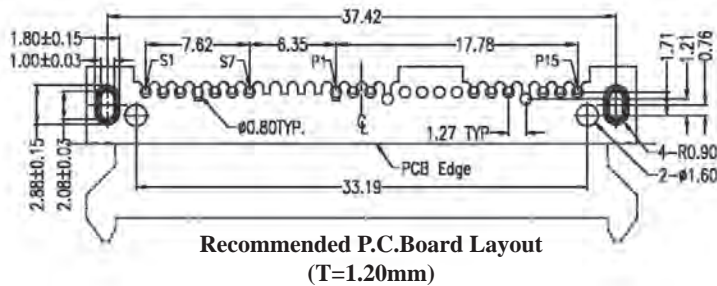
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{A3}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

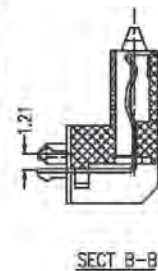
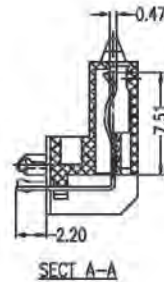
1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"A3" R/A DIP TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT RIGHT ANGLE DIP TYPE



Signal Name	Segment Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND

Power Segment			
Name	Type	Name	Type
P1	V33	P9	V5
P2	V33	P10	GND
P3	V33	P11	DAS/DSS
P4	GND	P12	GND
P5	GND	P13	V12
P6	GND	P14	V12
P7	V5	P15	V12
P8	V5		



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

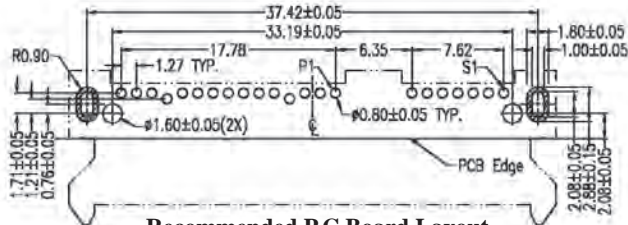
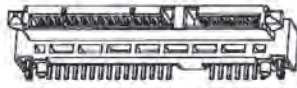
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

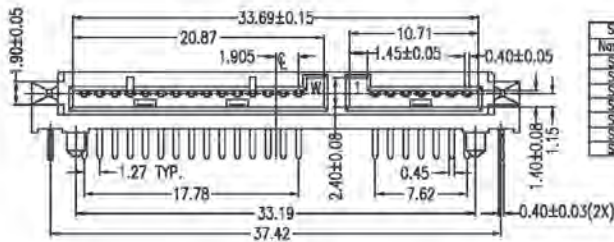
**P/N S A T A  $\frac{22}{1}$  -  $\frac{A4}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$**

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"A4" REVERSE R/A DIP TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE

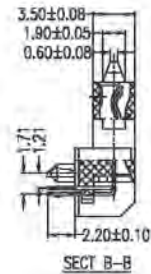
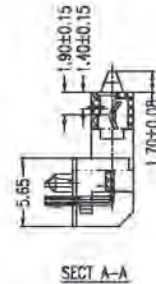
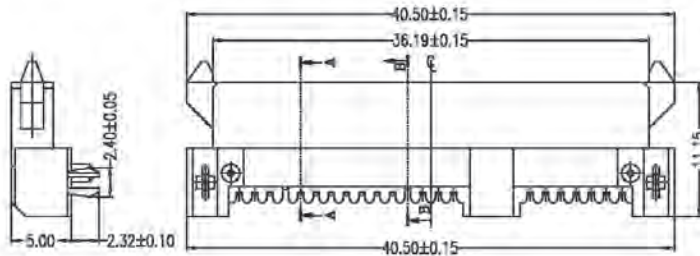


Recommended P.C. Board Layout  
Component Side (T=1.60mm)



Signal Segment	
Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B+
S6	B-
S7	GND

Power Segment			
Name	Type	Name	Type
P1	V33	P8	V5
P2	V33	P10	GND
P3	V33	P11	DS/SS
P4	GND	P12	GND
P5	GND	P13	V12
P6	GND	P14	V12
P7	V5	P15	V12
P8	V5		



## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{A5}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"A5" R/A DIP TYPE HEIGHT=5.00MM
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

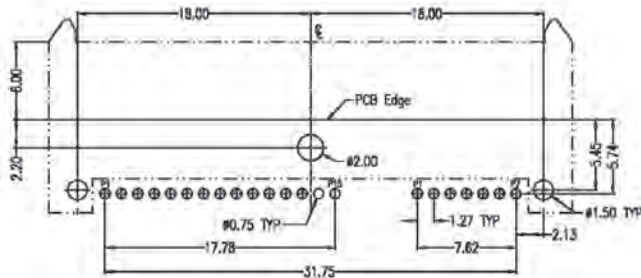
- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

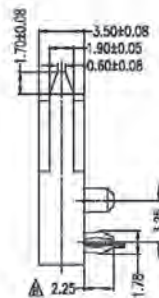
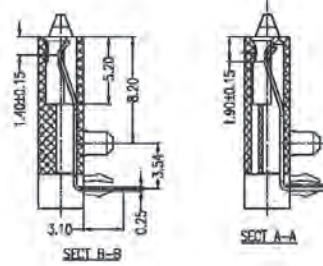
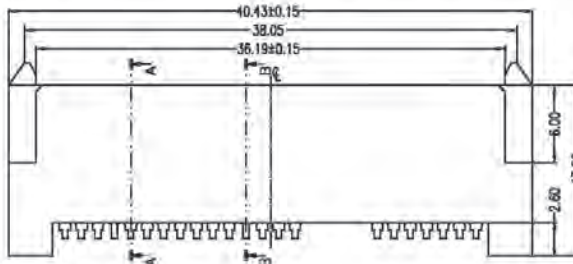
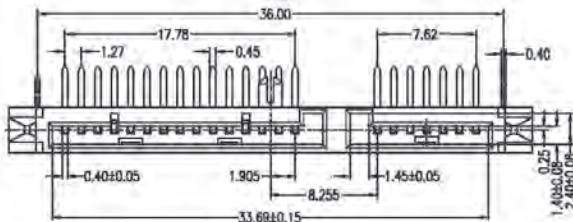




# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C. Board Layout  
Top View (T=1.30/1.60mm)



Signal Segment		Power Segment	
Name	Type	Name	Type
S1	GND	P1	V33
S2	A+	P2	V33
S3	A-	P3	V33
S4	GND	P4	GND
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND	P7	V5
		P8	V5
		P9	V5
		P10	GND
		P11	DAS/DSS
		P12	GND
		P13	V12
		P14	V12
		P15	V12

## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{A7}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"A7" SATA FOR RISER CARD
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## SPECIFICATIONS

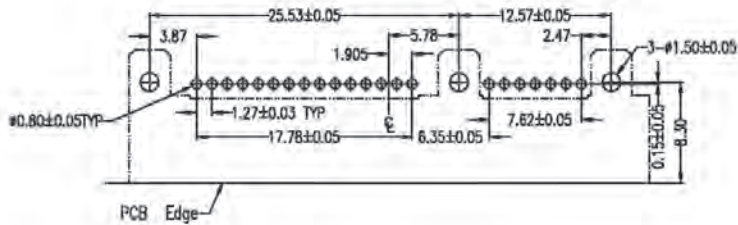
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

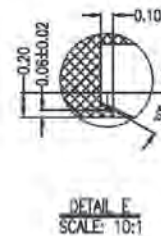
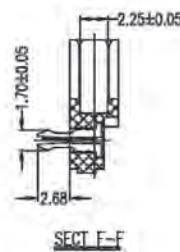
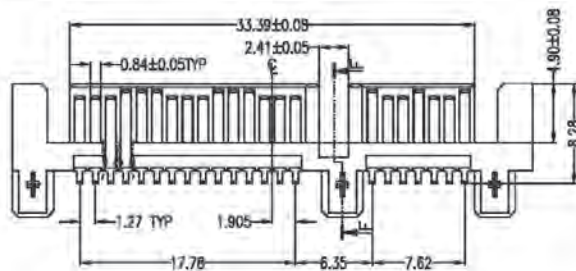
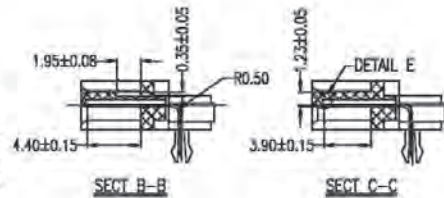
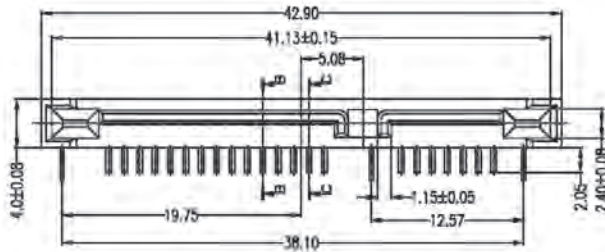
- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)



## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Brass

Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

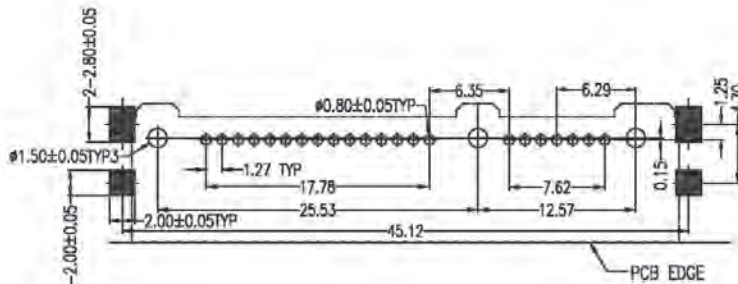
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{A8}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"A8" SATA FOR H.D.
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR METAL SHIELDED RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout  
Component Side (T=1.60mm)

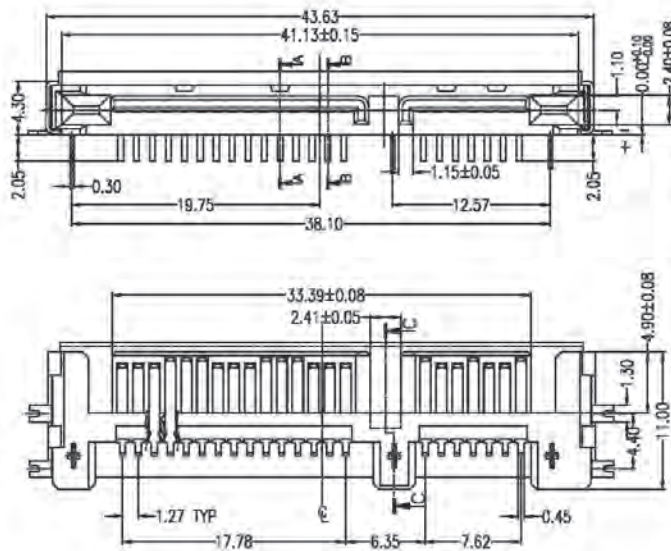
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

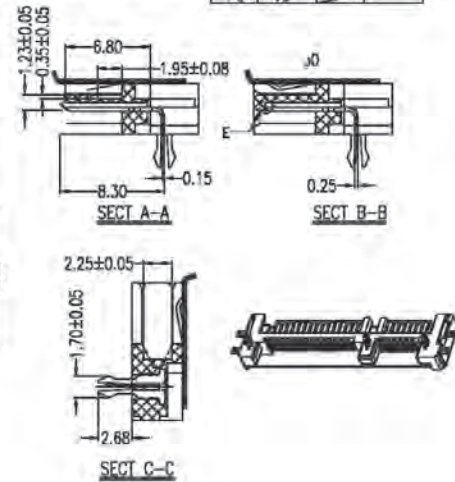
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder Tail

\*RoHS & REACH compliant.



Signal Segment	
Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND

Power Segment			
Name	Type	Name	Type
P1	V33	P9	V5
P2	V33	P10	GND
P3	V33	P11	DAS/DSS
P4	GND	P12	GND
P5	GND	P13	V12
P6	GND	P14	V12
P7	V5	P15	V12
P8	V5		



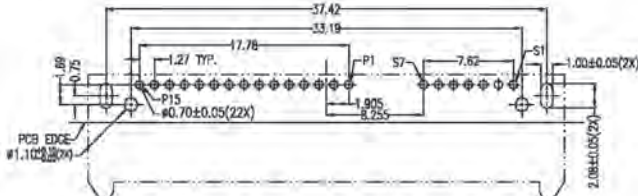
## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{A9}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{XX}{5}$

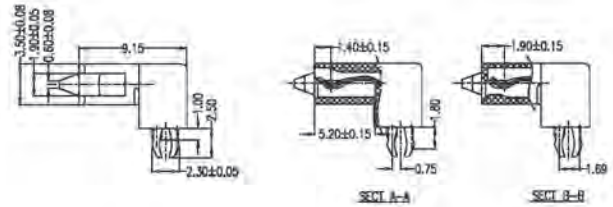
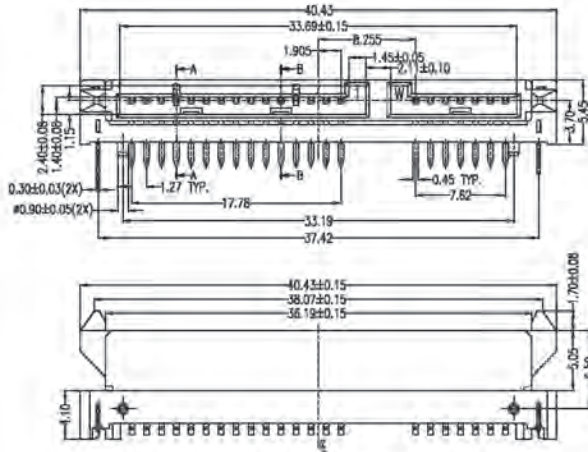
- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"A9" SATA FOR H.D.
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD



# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20mm)



Pin NO.	Signal Name	Pin NO.	Power Name	Pin NO.	Power Name
S1	GND	P1	V33	P9	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

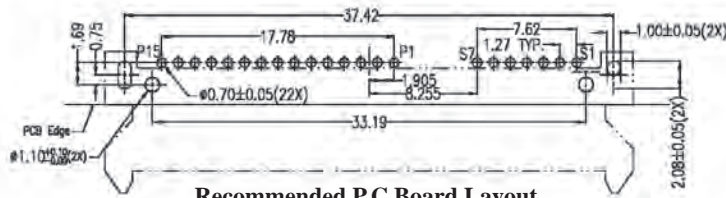
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

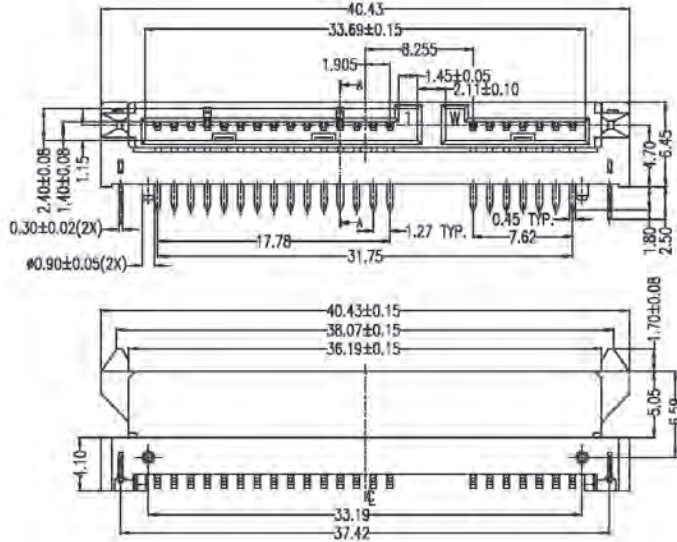
P/N S A T A  $\frac{22}{1}$  -  $\frac{B2}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"B2" R/A DIP TYPE QUAKEPROOF
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20mm)



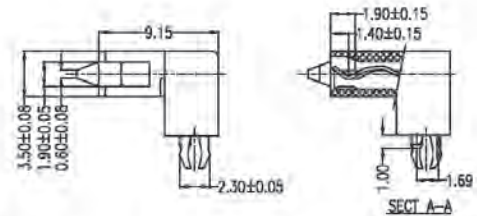
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

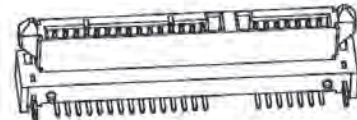
## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder Tail; Ni (40u" Min.) Underplating overall

\*RoHS & REACH compliant.



Pin NO.	Signal Name	Pin NO.	Power Name	Pin NO.	Power Name
S1	GND	P1	V33	P9	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		

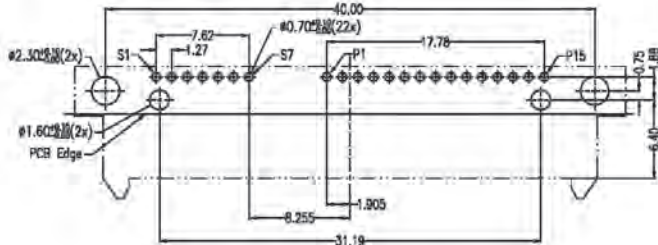


## ORDERING INFORMATION:

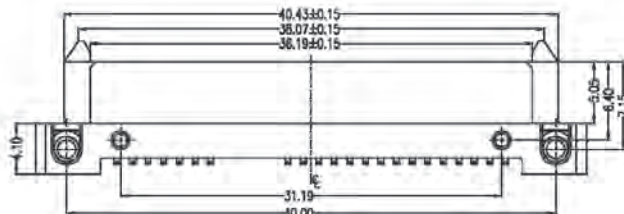
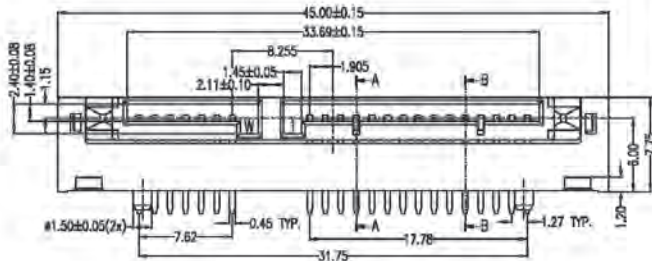
P/N S A T A  $\frac{22}{1}$  -  $\frac{B3}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"B3" R/A DIP TYPE QUAKEPROOF
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

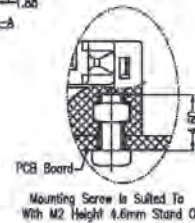
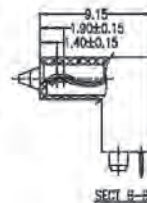
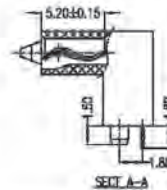
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20mm)



Pin No.	Signal Name	Pin No.	Power Name	Pin No.	Power Name
S1	GNL	P1	V33	P9	V5
S2	A+	P2	V33	P10	GNL
S3	A-	P3	V33	P11	GNL/DSS
S4	GNL	P4	GNL	P12	GNL
S5	B-	P5	GNL	P13	V12
S6	B+	P6	GNL	P14	V12
S7	GNL	P7	V5	P15	V12
		P8	V5		



Mounting Screw is Suggested  
With M2 Height 4.6mm Stand Off.

## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Brass

Plating: Au Plating on Contact Area;

Sn (100u" Min.) Plating on Solder

Tail; Ni (40u" Min.) Underplating

overall

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

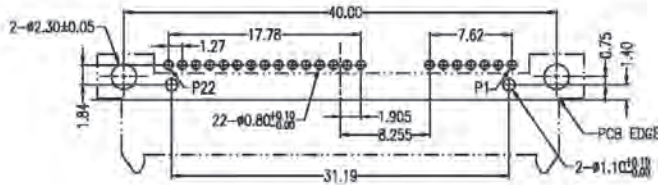
P/N S A T A  $\frac{22}{1}$  - B  $\frac{4}{2}$  F  $\frac{B}{3}$   $\frac{x}{4}$   $\frac{x}{5}$  -  $\frac{x}{6}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"B4" R/A DIP TYPE QUAKEPROOF
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

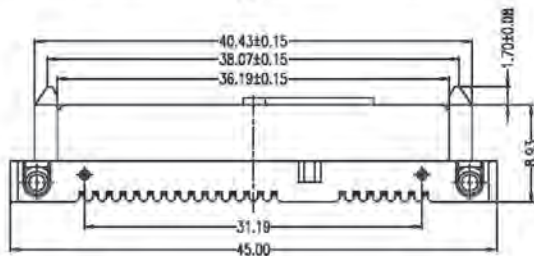
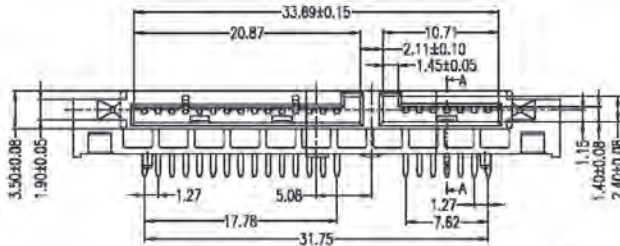
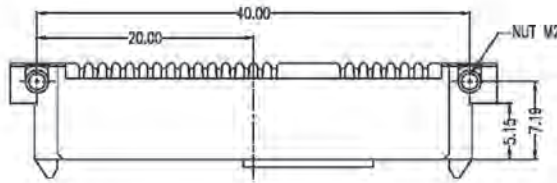
6. PACKAGE TYPE:  
"0" TRAY  
"R" TAPE & REEL



# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT RIGHT ANGLE DIP TYPE



Recommended P.C. Board Layout  
Top View (T=1.40mm)



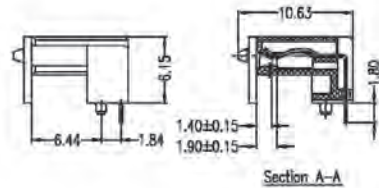
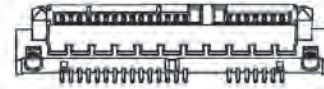
## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



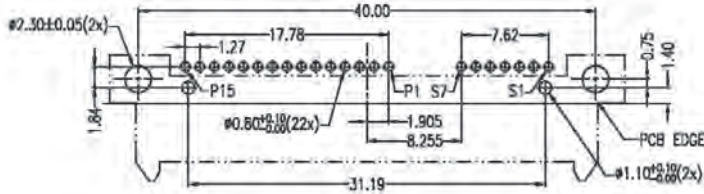
Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V33	P8	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/ISS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		PR	V5		

## ORDERING INFORMATION:

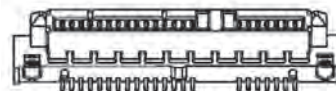
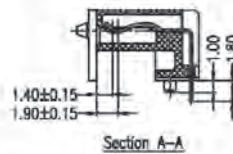
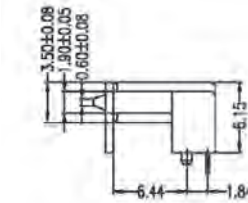
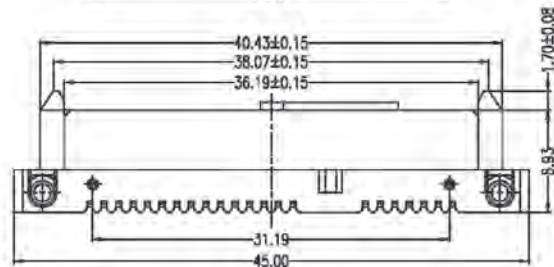
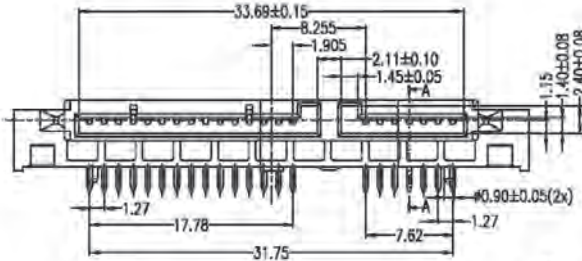
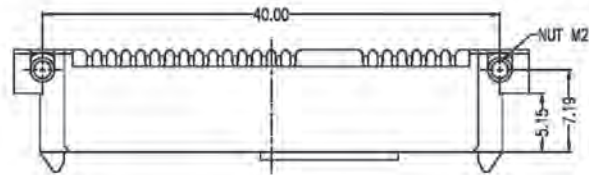
P/N S A T A  $\frac{22}{1}$  -  $\frac{B5}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$  -  $\frac{x}{5}$  -  $\frac{x}{6}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"B5" REVERSE R/A DIP TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD
- PACKAGE TYPE:  
"0" TRAY  
"R" TAPE & REEL

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT RIGHT ANGLE DIP TYPE



**Recommended P.C.Board Layout  
Component Side (T=1.40mm)**



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

Signal Segment		Power Segment	
Name	Type	Name	Type
S1	GND	P1	V+1
S2	A+	P2	V+1
S3	A-	P3	V+1
S4	GND	P4	GND
S5	B+	P5	GND
S6	B-	P6	GND
S7	GND	P7	V5
		P8	V5
		P9	V5
		P10	GND
		P11	DAS/SS
		P12	GND
		P13	GND
		P14	V12
		P15	V12

## ORDERING INFORMATION:

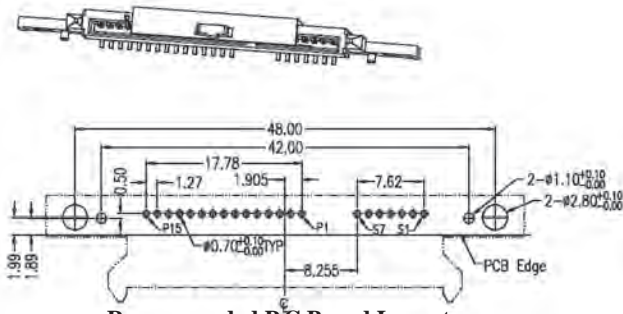
**P/N S A T A  $\frac{22}{1}$  -  $\frac{B6}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$  -  $\frac{x}{6}$**

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"B6" REVERSE R/A TYPE W/O LOCK KEY
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

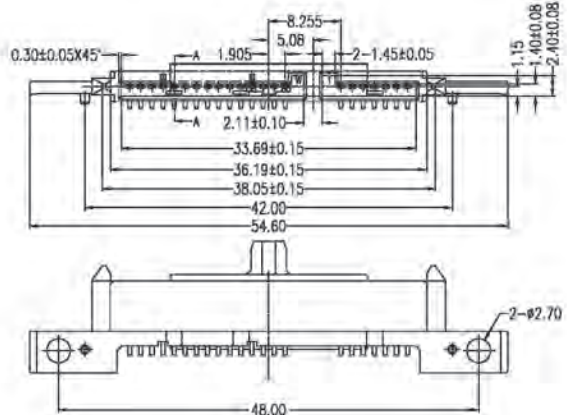
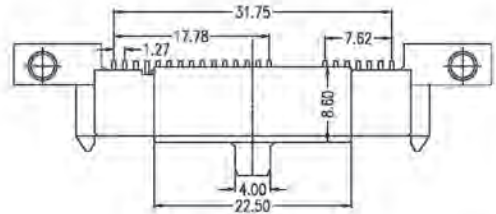
- PACKAGE TYPE:  
"0" TRAY  
"R" TAPE & REEL



# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE

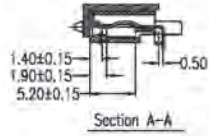
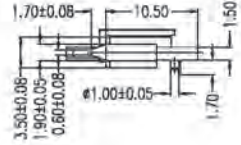


**Recommended P.C.Board Layout  
Top View (T=1.20mm)**



Signal Segment	
Name	Type
S1	DATA
S2	DATA
S3	DATA
S4	DATA
S5	DATA
S6	DATA
S7	DATA

Power Segment			
Name	Type	Pin	Type
P1	VCC	28	VCC
P2	VCC	P10	GND
P3	VCC	P11	NS/DSS
P4	GND	P12	GND
P5	GND	P13	V12
P6	GND	P14	V12
P7	V5	P15	V12
P8	V5		



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

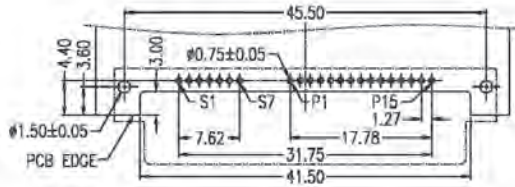
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

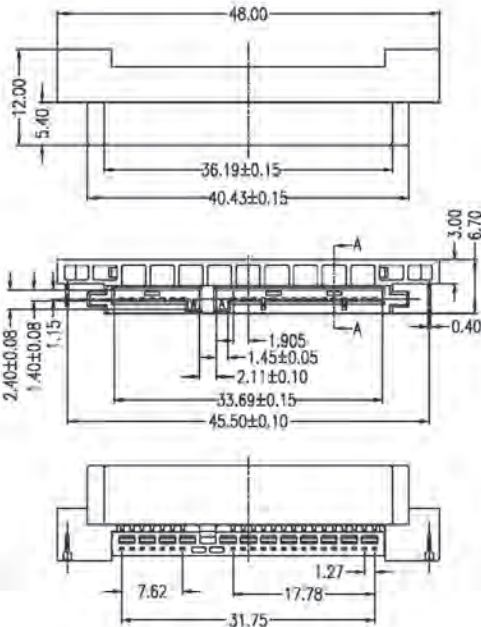
**P/N S A T A  $\frac{22}{1}$  -  $\frac{B8}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$**

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"B8" R/A DIP TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE

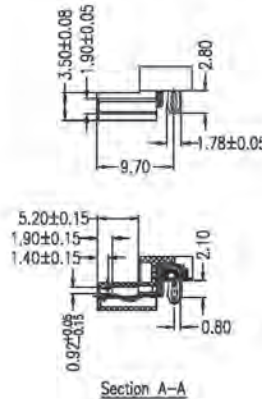


Recommended P.C.Board Layout  
Component Side (T=1.60mm)



Signal Segment	Name	Type
S1	GND	
S2	A+	
S3	A-	
S4	GND	
S5	DF	
S7	GND	

Power Segment		Name	Type
P1	V+5	P9	V+
P2	V+5	P10	GND
P3	V+5	P11	MS/SS
P4	GND	P12	GND
P5	GND	P13	V+5
P6	GND	P14	V+5
P7	V+5	P15	V+5
P8	V+5		



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

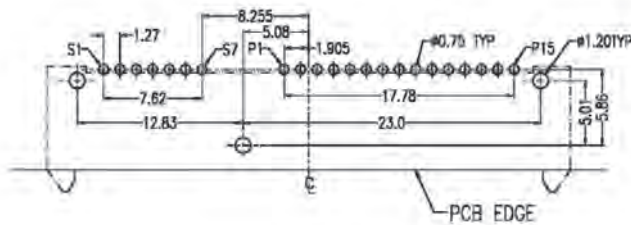
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{B9}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"B9" R/A SUBSIDE DIP TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD

## SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)

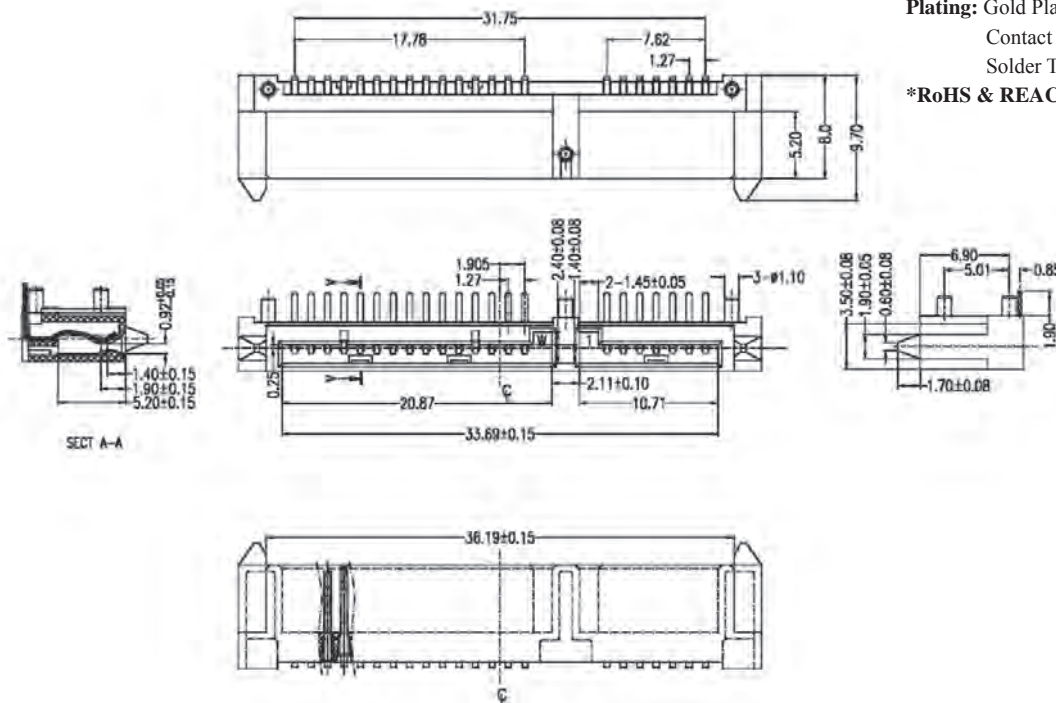
### SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

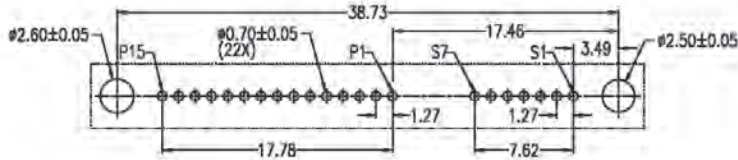


### ORDERING INFORMATION:

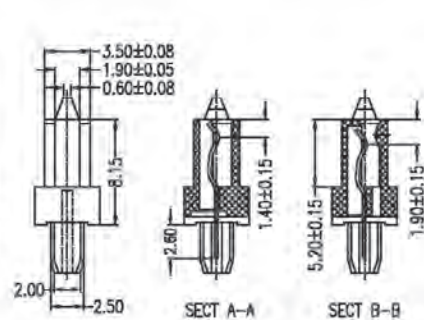
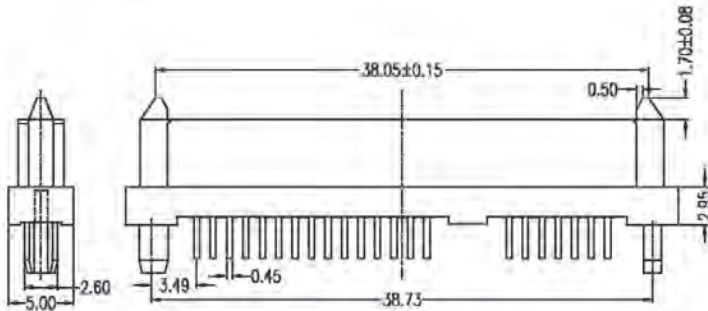
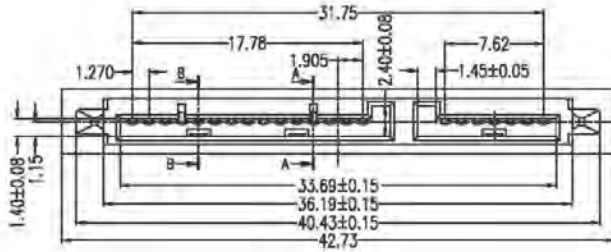
P/N S A T A  $\frac{22}{1}$  -  $\frac{C1}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"C1" RIGHT ANGLE DIP TYPE HEIGHT=8.0MM
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=1.60mm)



Signal Segment	
Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B+
S6	B-
S7	GND

Power Segment			
Name	Type	Name	Type
P1	V3.3	P9	V5
P2	V3.3	P10	GND
P3	V3.3	P11	DAS/DSS
P4	GND	P12	GND
P5	GND	P13	V1.2
P6	GND	P14	V1.2
P7	V5	P15	V1.2
P8	V5		

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

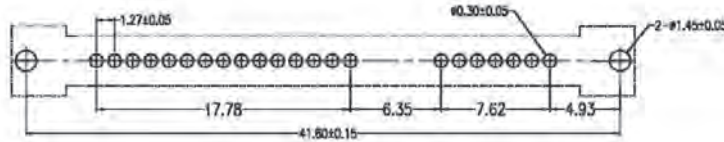
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

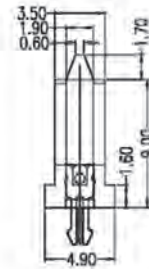
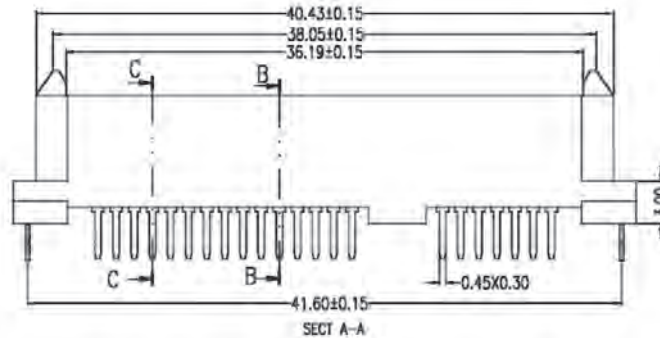
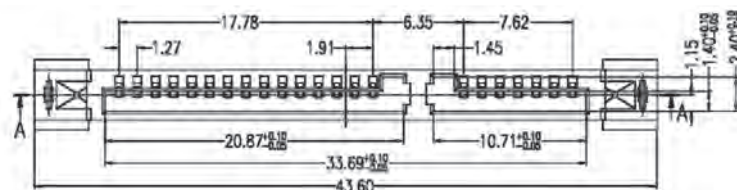
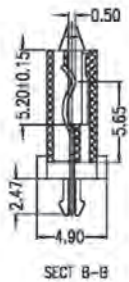
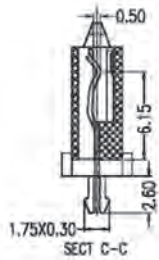
P/N S A T A  $\frac{22}{1}$  -  $\frac{H1}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"H1" SATA FOR RISER CARD
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C.Board Layout  
Top View



## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +125°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

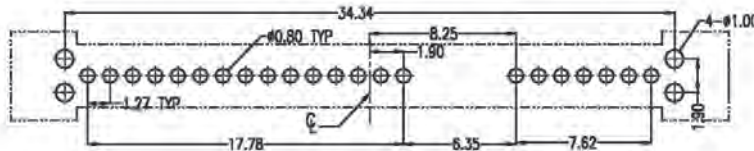
## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{H2}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

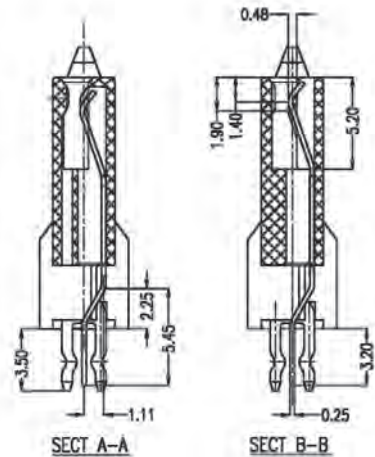
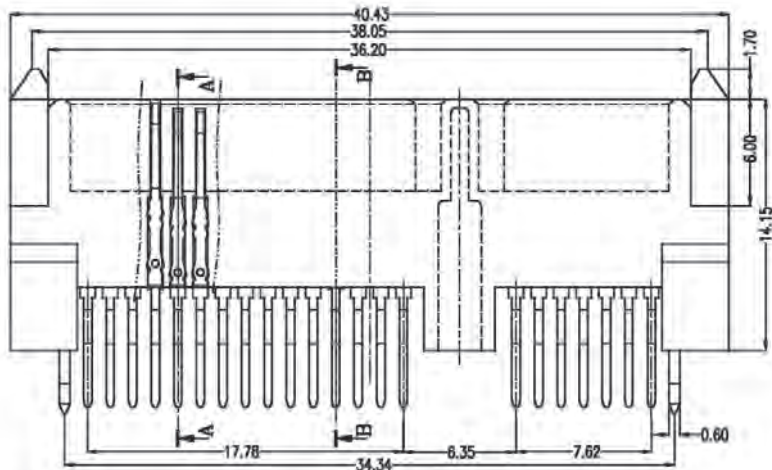
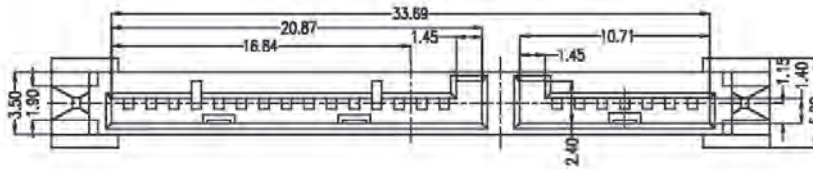
1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"H2" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD



## SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C. Board Layout  
Top View



### SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

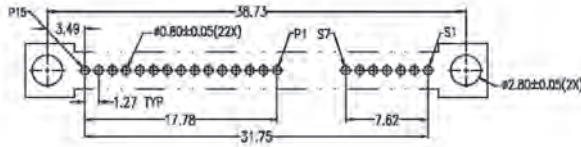
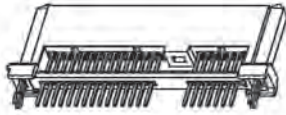
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

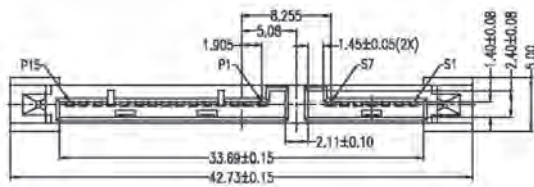
P/N S A T A  $\frac{22}{1}$  -  $\frac{H3}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"H3" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

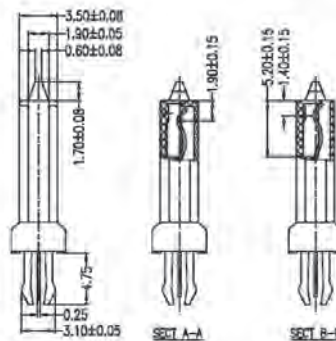
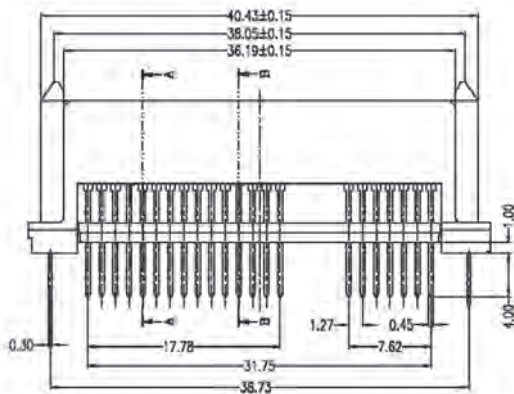
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=2.36mm)



Signal Segment		Power Segment	
Name	Type	Name	Type
S1	GN	P5	V5
S2	GN	P6	V5
S3	A+	P10	GN
S4	A-	P11	DAS/DSS
S5	GN	P17	GN
S6	B+	P14	V12
S7	B-	P15	V12
S8	GN		
S9	GN		



## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Gold Plating over Nickel on

Contact Area; Tin Plating on

Solder Tail

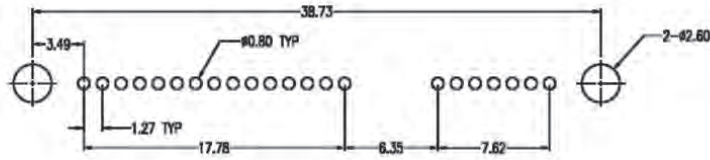
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

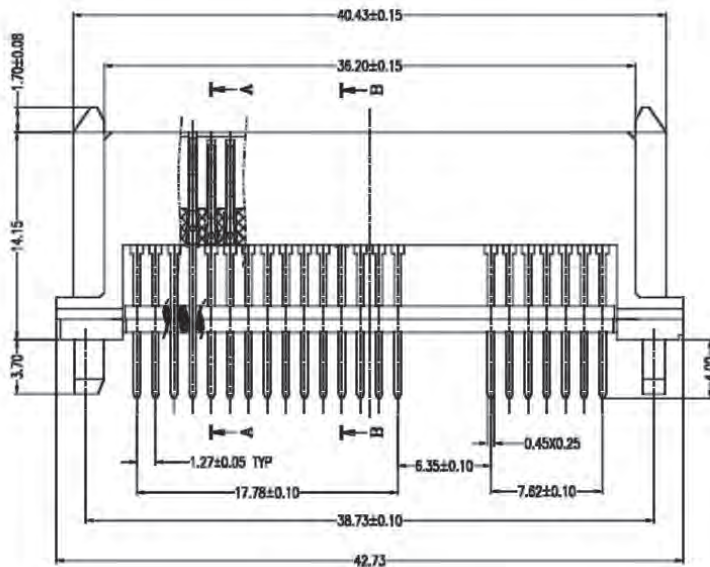
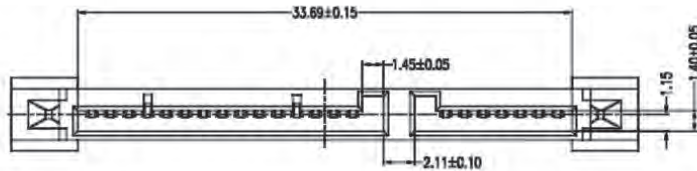
P/N S A T A  $\frac{22}{1}$  -  $\frac{H4}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"H4" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C.Board Layout

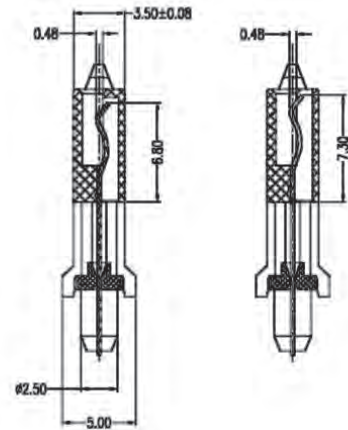


## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail
- \*RoHS & REACH compliant.



SECT A-A

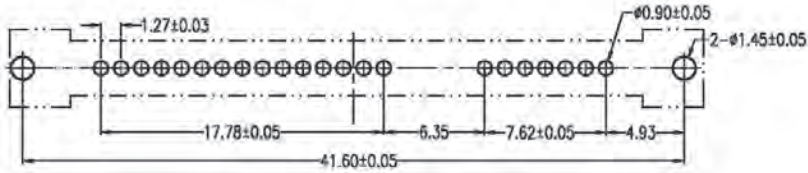
SECT B-B

## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{H5}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"H5" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C.Board Layout  
Top View

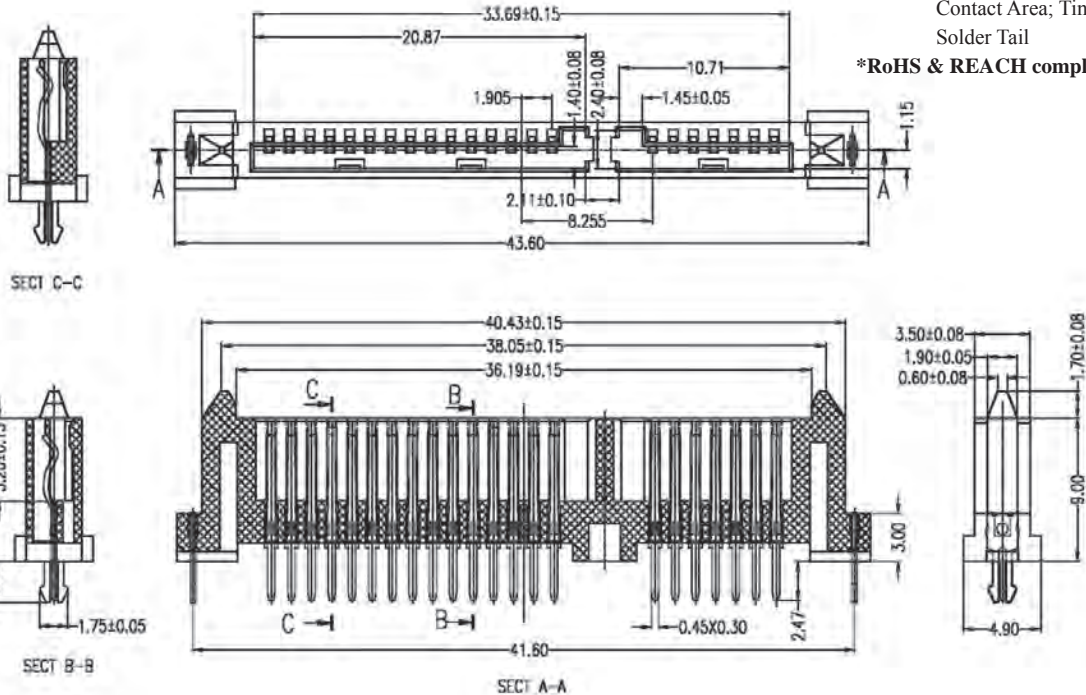
## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

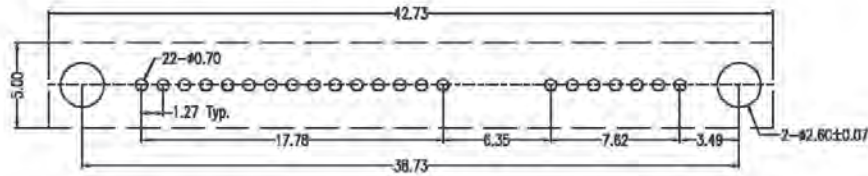


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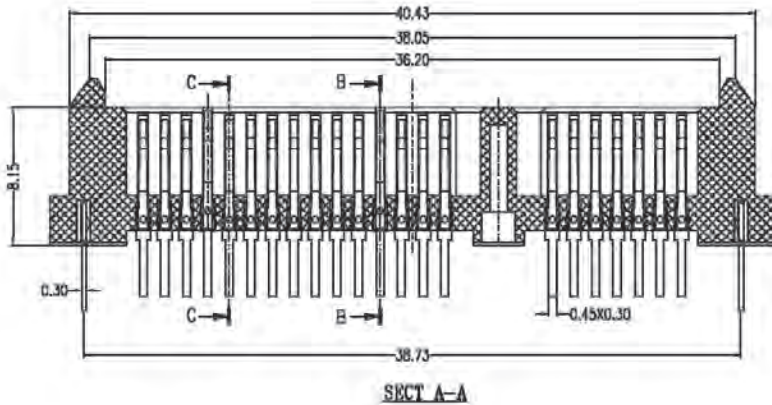
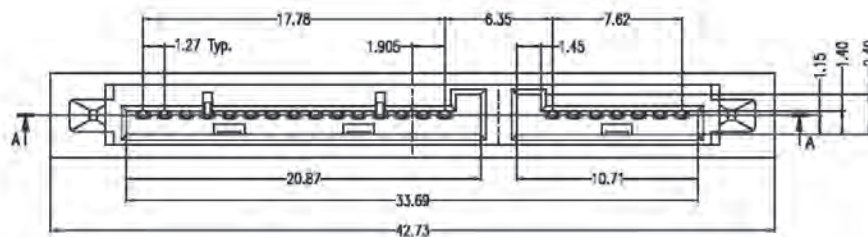
P/N S A T A  $\frac{22}{1}$  -  $\frac{H6}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"H6" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

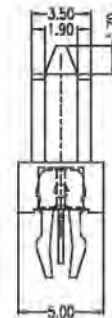
## SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



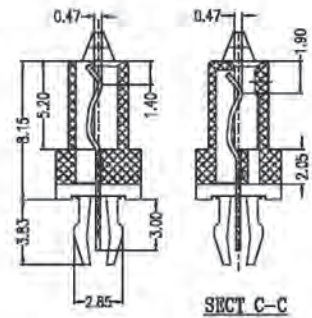
Recommended P.C.Board Layout  
Top View



SECT A-A



SECT B-B



SECT C-C

### SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +125°C

### MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Gold Plating over Nickel on

Contact Area; Tin Plating on

Solder Tail

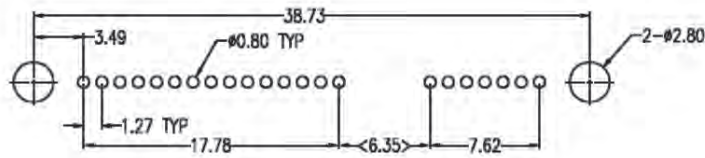
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

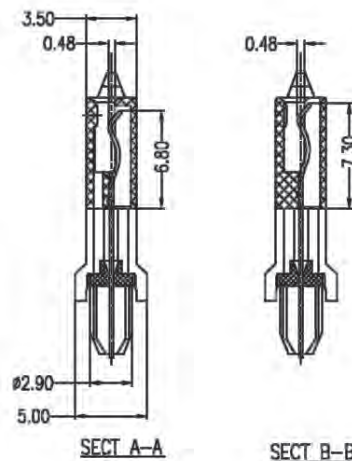
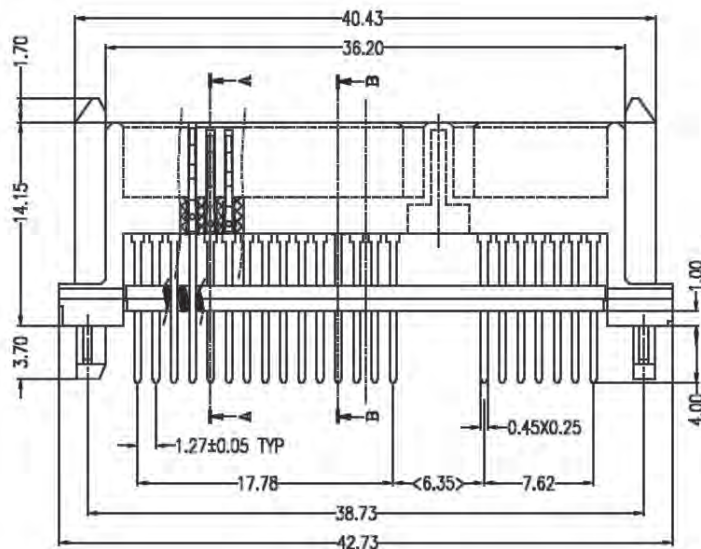
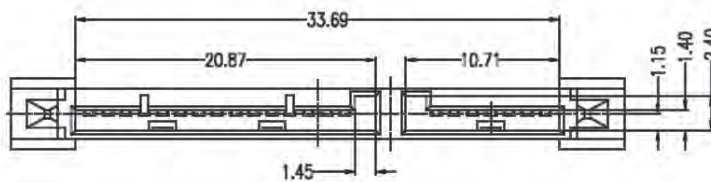
P/N S A T A  $\frac{22}{1}$  -  $\frac{H7}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"H7" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C. Board Layout



### SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +125°C

### MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Gold Plating over Nickel on

Contact Area; Tin Plating on

Solder Tail

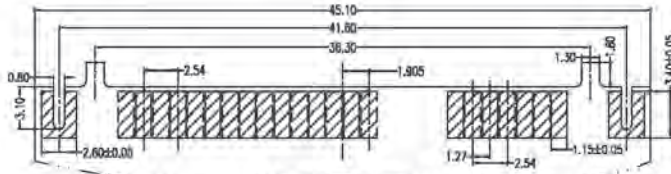
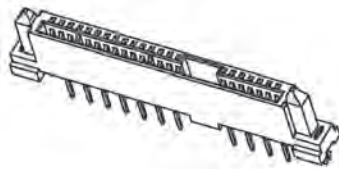
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

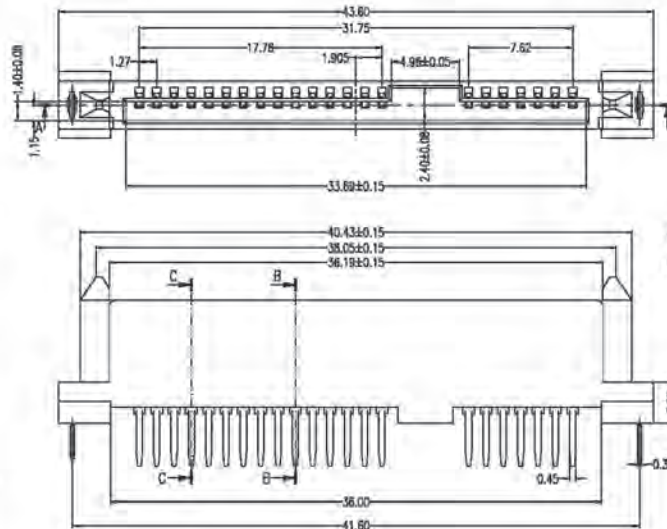
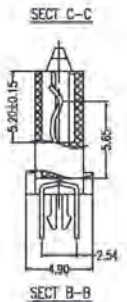
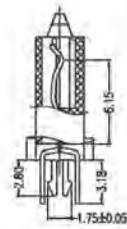
P/N S A T A  $\frac{22}{1}$  -  $\frac{H8}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"H8" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=1.60mm)



### SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

### MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

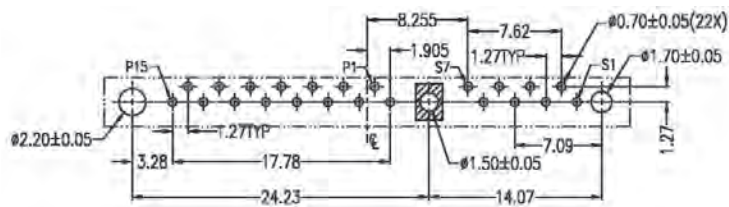
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

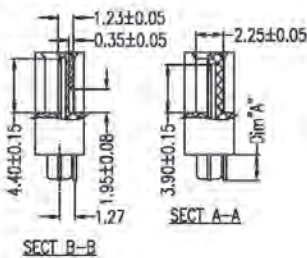
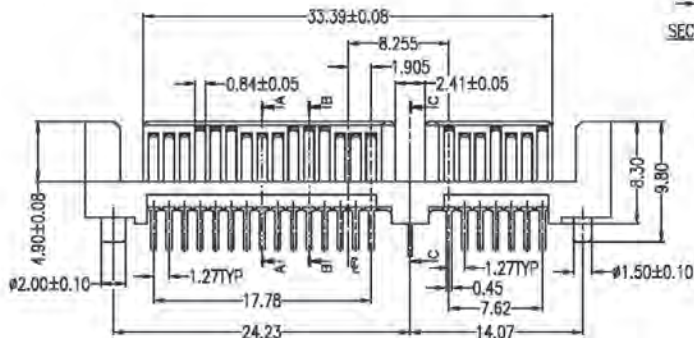
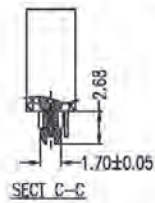
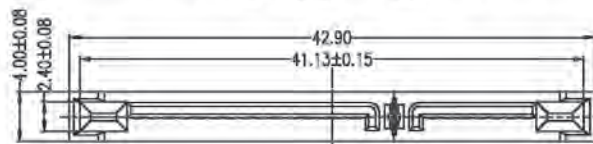
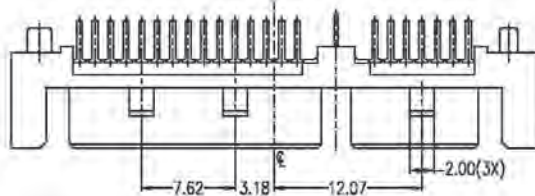
P/N S A T A  $\frac{22}{1}$  -  $\frac{H9}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"H9" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR STRAIGHT DIP TYPE FOR H.D.



Recommended P.C. Board Layout  
Component Side (T=1.60mm)



Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
P1	GND	P1	V33	P8	V5
P2	AI-	P2	V33	P10	GND
P3	AI+	P3	V33	P11	MS/SS
P4	GND	P4	GND	P12	GND
P5	BI-	P5	GND	P13	V12
P6	BI+	P6	GND	P14	V12
P7	GND	P7	V5	P15	V12
P8	GND	P8	V5		

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

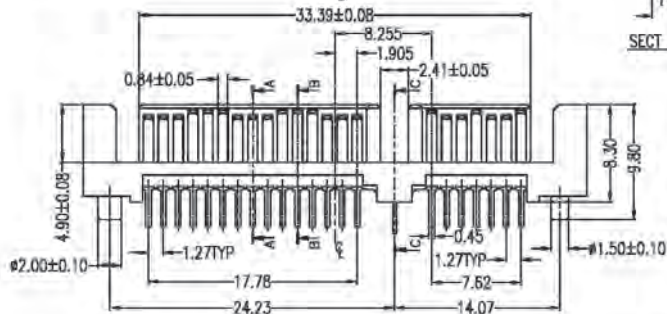
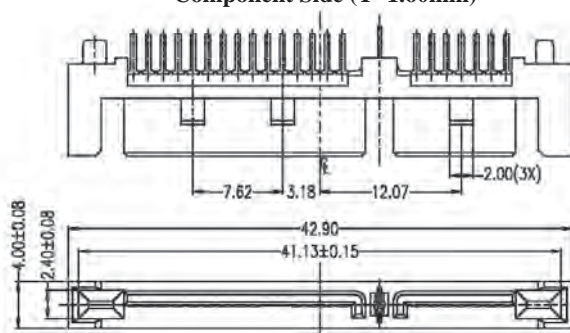
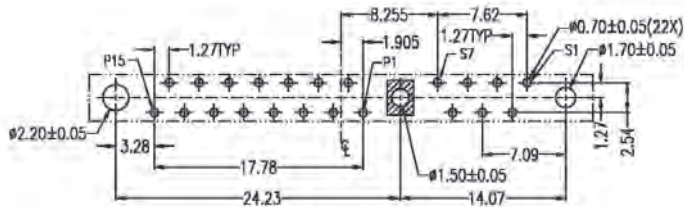
## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{x x}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{x x}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"J1" DIM. A=2.10MM  
"J2" DIM. A=3.00MM
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

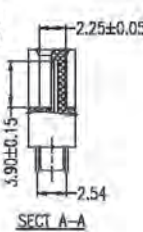
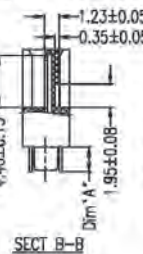


# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR STRAIGHT DIP TYPE FOR H.D.



Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V <sub>15</sub>	P8	V <sub>5</sub>
S2	++	P2	V <sub>3.3</sub>	P10	GND
S3	-	P3	V <sub>3.3</sub>	P11	UAS/DSS
S4	GND	P4	GND	P12	GND
S5	+-	P5	GND	P13	V <sub>12</sub>
S6	+-	P6	GND	P14	V <sub>12</sub>
S7	GND	P7	V <sub>5</sub>	P15	V <sub>12</sub>
		P8	V <sub>5</sub>		

SECT C-C



## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{x x}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{x x}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"J3" DIM. A=2.10MM  
"J4" DIM. A=3.00MM
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## SPECIFICATIONS

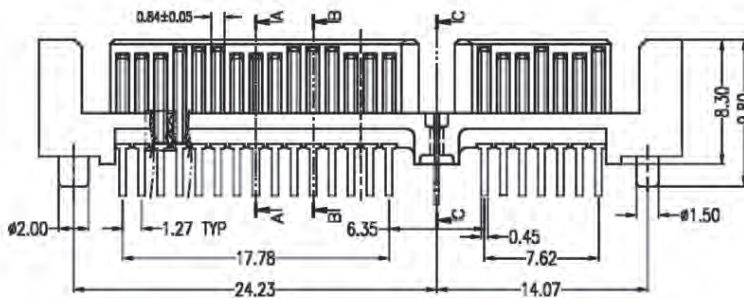
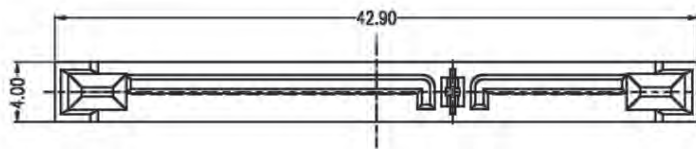
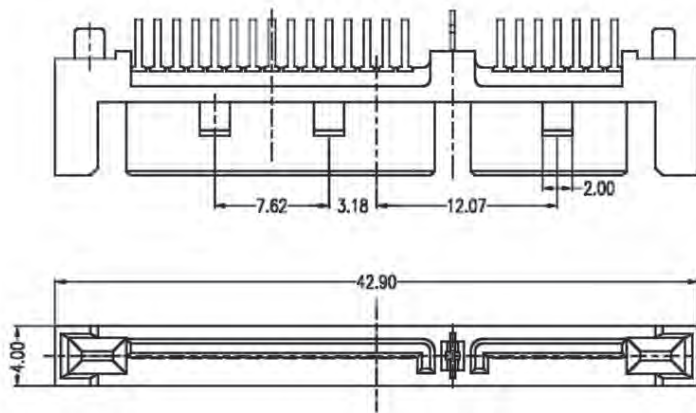
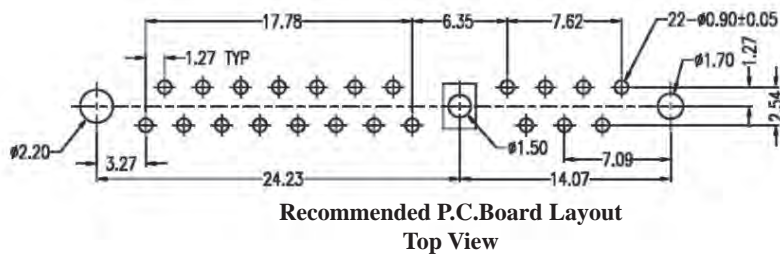
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR STRAIGHT DIP TYPE FOR H.D.

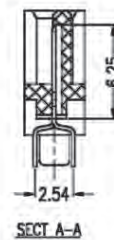
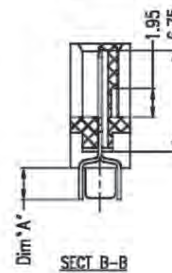
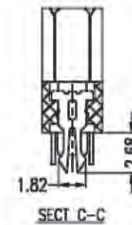


## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail
- \*RoHS & REACH compliant.

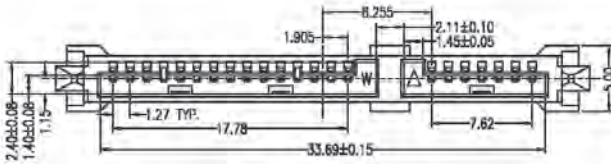
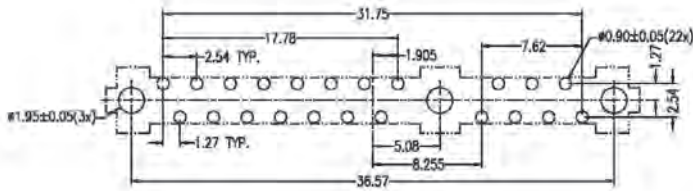
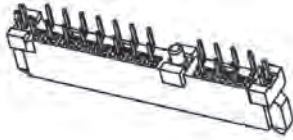


## ORDERING INFORMATION:

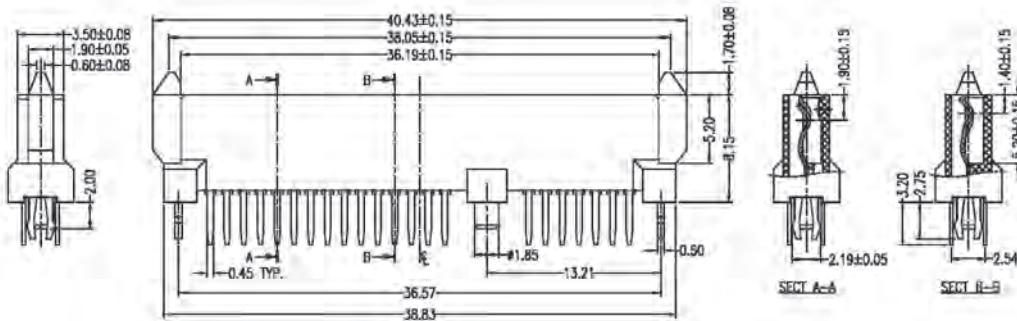
P/N S A T A  $\frac{22}{1}$  -  $\frac{x}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"J5" DIM. A=2.10MM  
"J6" DIM. A=3.00MM
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Pin No.	Signal Name	Pin No.	Power Name	Pin No.	Power Name
S1	RD0	P1	V+1	P9	V-
S2	RD1	P2	V+1	P10	GN0
S3	RD2	P3	V+1	P11	DA5/25S
S4	RD3	P4	RD0	P12	RD0
S5	RD4	P5	RD0	P13	V+5
S6	RD5	P6	RD0	P14	V-5
S7	RD6	P7	V-	P15	V+5
S8	RD7	P8	V-	P16	V-5



## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{J7}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"J7" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## SPECIFICATIONS

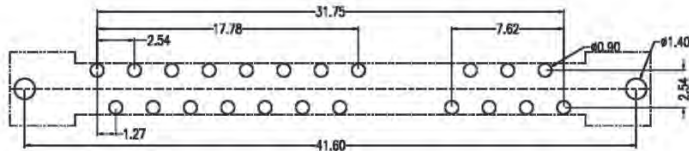
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

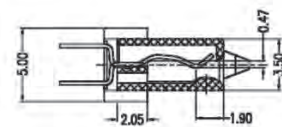
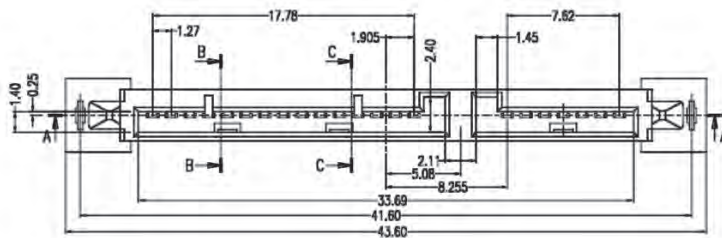
- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

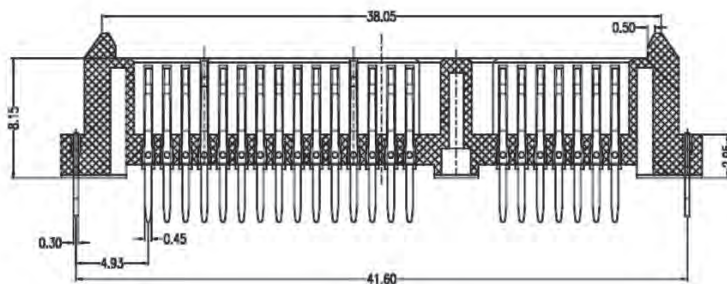
## SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



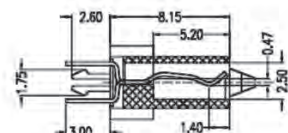
Recommended P.C.Board Layout  
Top View



SECT B-B



SECT A-A



SECT C-C

### SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +125°C

### MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

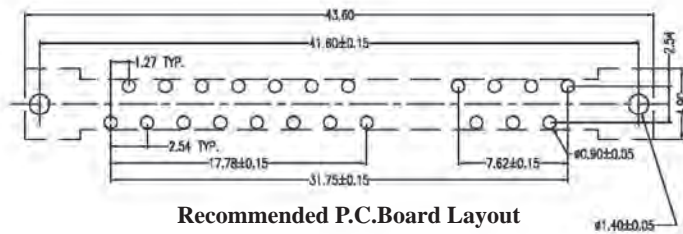
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

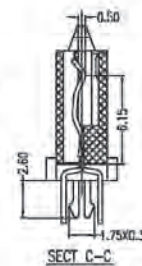
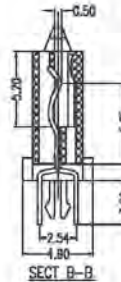
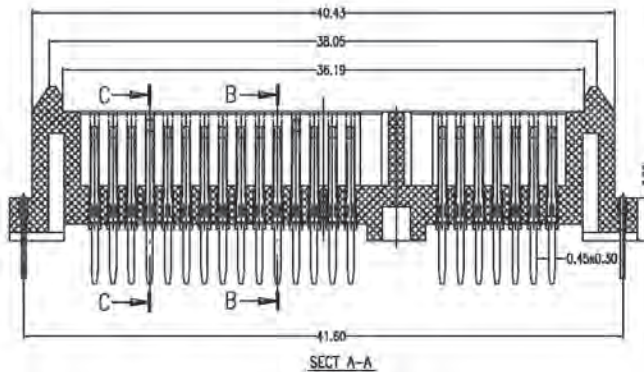
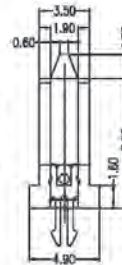
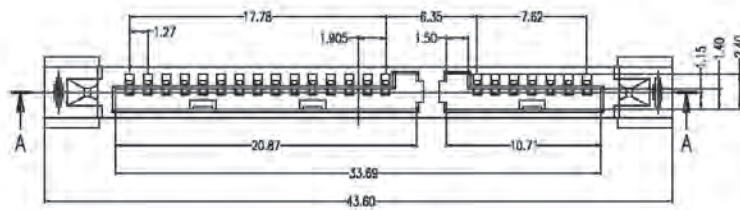
P/N S A T A  $\frac{22}{1}$  -  $\frac{J8}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"J8" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT STRAIGHT DIP TYPE



Recommended P.C.Board Layout  
Top View



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

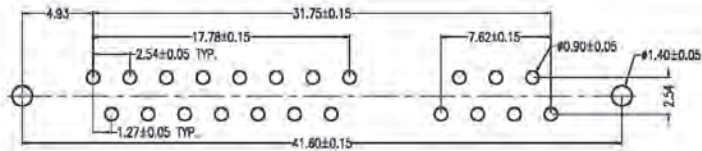
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

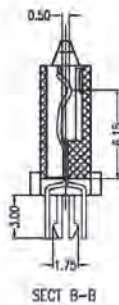
P/N S A T A  $\frac{22}{1}$  -  $\frac{J9}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"J9" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

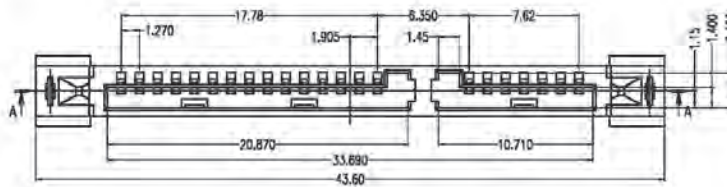
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE WITH LOCK KEY & METAL POSTS



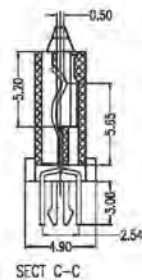
Recommended P.C. Board Layout  
Top View



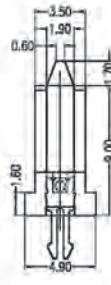
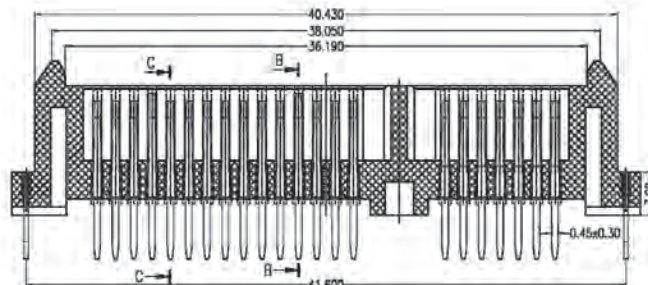
SECT B-B



SECT A-A



SECT C-C



## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +125°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

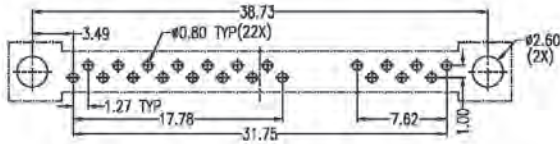
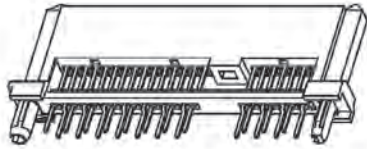
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

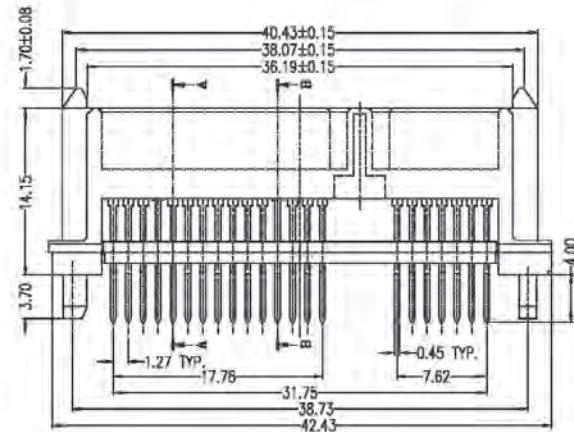
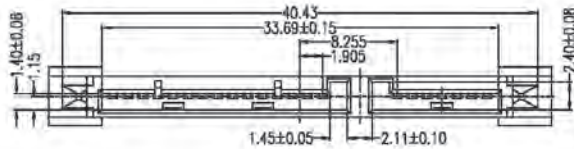
P/N S A T A  $\frac{22}{1}$  -  $\frac{K1}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"K1" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20mm)



## SPECIFICATIONS

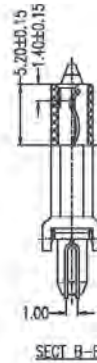
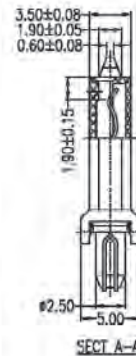
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

Pin NO.	Signal Name	Pin NO.	Power Name	Pin NO.	Power Name
S1	GND	P1	V33	P9	V5
S2	At	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		

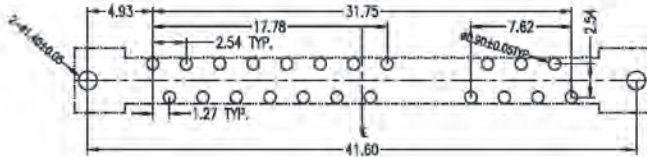


## ORDERING INFORMATION:

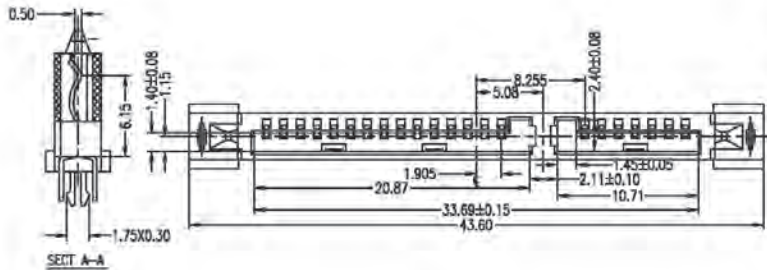
P/N S A T A  $\frac{22}{1}$  -  $\frac{K2}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"K2" DIP TYPE HEIGHT=15.85MM
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

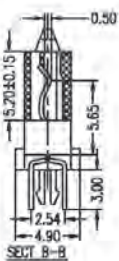
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE WITH LOCK KEY



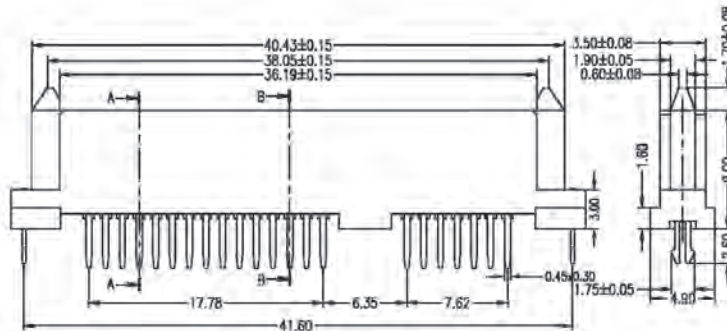
Recommended P.C. Board Layout  
Top View



SECT A-A



SECT B-B



## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Gold Plating over Nickel on

Contact Area; Tin Plating on

Solder Tail

\*RoHS & REACH compliant.

Power Segment			
Name	Type	Name	Type
P1	V33	P9	V5
P2	V33	P10	GND
P3	V33	P11	DAS/DSS
P4	GND	P12	GND
P5	GND	P13	V12
P6	GND	P14	V12
P7	V5	P15	V12
P8	V5		

Signal Segment	
Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND

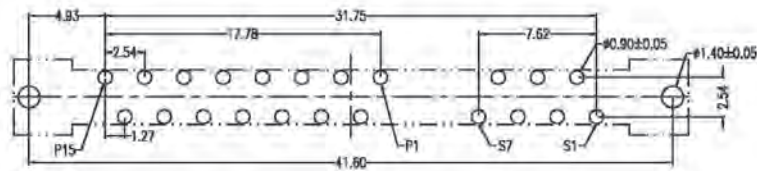
## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{K3}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

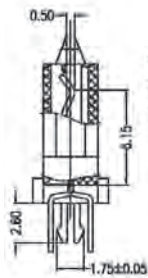
1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"K3" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD



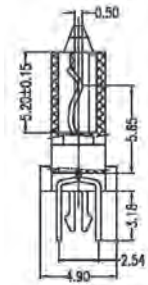
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE W/O LOCK KEY



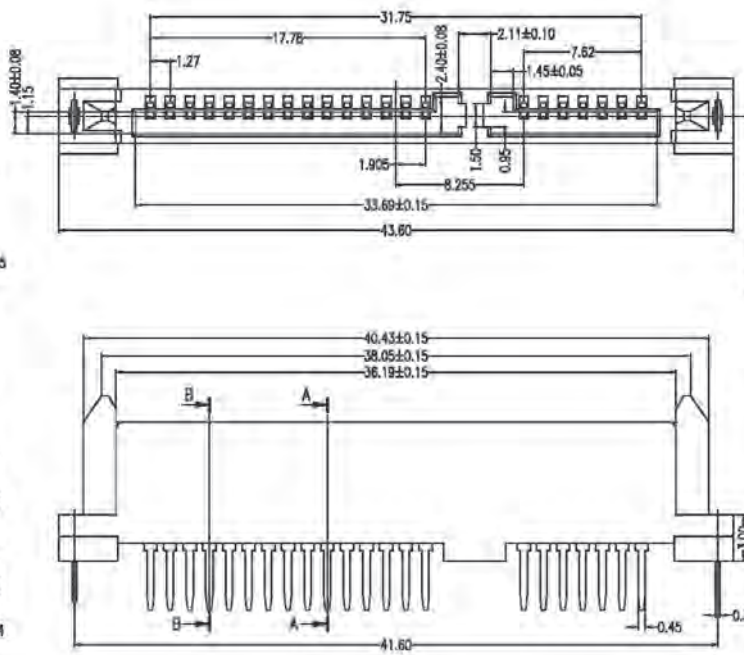
**Recommended P.C.Board Layout  
Component Side (T=1.60mm)**



**SECT B-B**



**SECT A-A**



## SPECIFICATIONS

- Current Rating:** 1.5 Amperes
- Insulation Resistance:** 1000MΩ Min
- Dielectric Withstanding:** 500V AC
- Contact Resistance:** 30mΩ Max.
- Operating Temperature:** -55°C to +85°C

## MATERIALS

- Housing:** LCP, UL94V-0
- Contact:** Phosphor Bronze
- Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

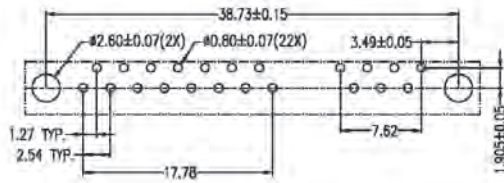
Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	VSS	P9	V5
S2	A+	P2	VSS	P10	GND
S3	A-	P3	VSS	P11	DAS / VSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		

## ORDERING INFORMATION:

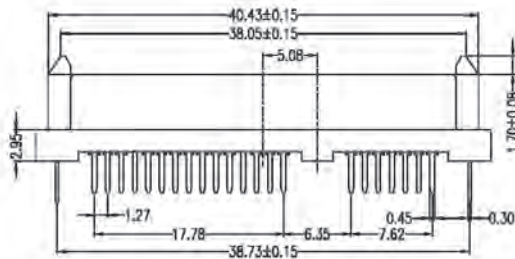
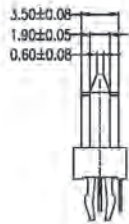
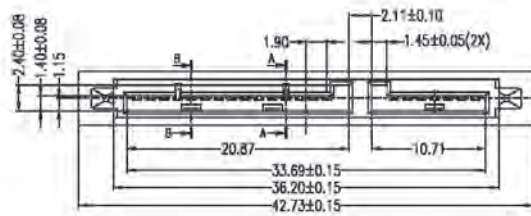
**P/N S A T A  $\frac{22}{1}$  -  $\frac{K4}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$**

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"K4" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



**Recommended P.C. Board Layout  
Component Side**



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +125°C

## MATERIALS

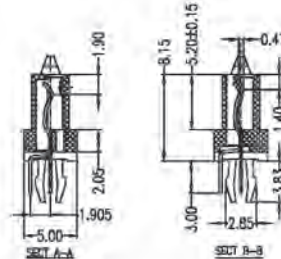
**Housing:** LCP, UL94V-0

**Contact:** Phosphor Bronze

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

Signal Segment		Power Segment	
Name	Type	Name	Type
S1	SH	V1	VS
S2	SH	V2	VS
S3	SH	V3	VS
S4	SH	V4	VS
S5	SH	V5	VS
S6	SH	V6	VS
S7	SH	V7	VS
S8	SH	V8	VS
S9	SH	V9	VS
S10	SH	V10	VS
S11	SH	V11	VS
S12	SH	V12	VS
S13	SH	V13	VS
S14	SH	V14	VS
S15	SH	V15	VS
S16	SH	V16	VS
S17	SH	V17	VS
S18	SH	V18	VS
S19	SH	V19	VS
S20	SH	V20	VS
S21	SH	V21	VS
S22	SH	V22	VS

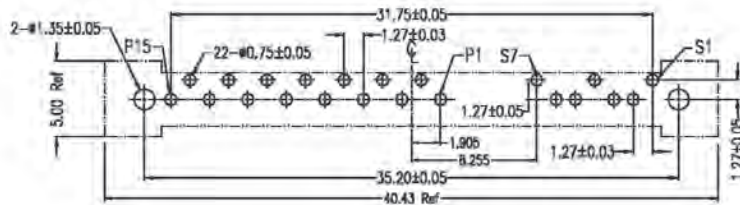


## ORDERING INFORMATION:

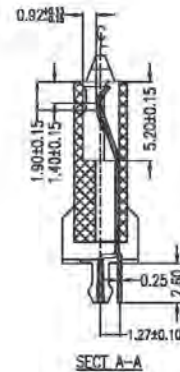
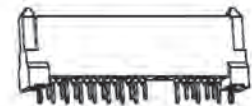
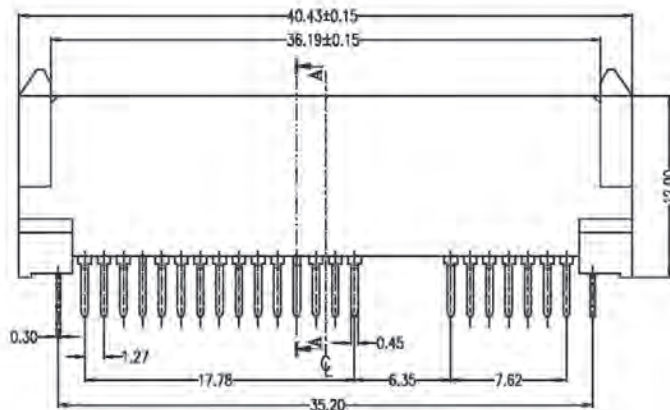
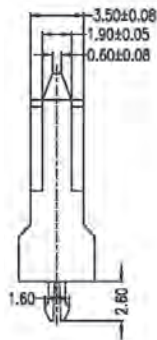
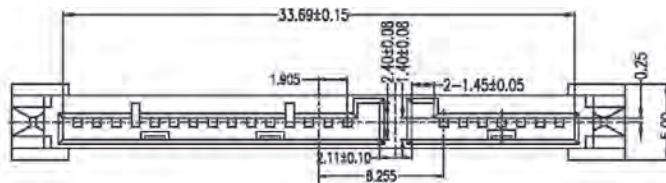
**P/N S A T A  $\frac{22}{1}$  -  $\frac{K5}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$**

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"K5" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C. Board Layout  
Top View (T=1.60mm)



### SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +125°C

### MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Gold Plating over Nickel on  
Contact Area; Tin Plating on  
Solder Tail

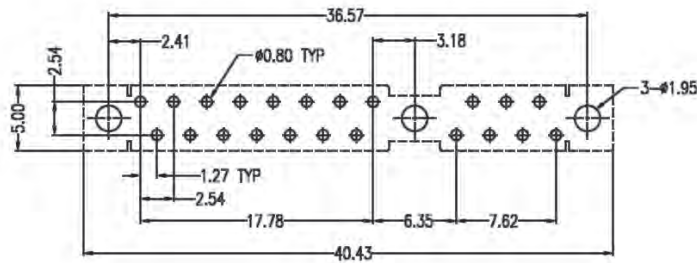
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

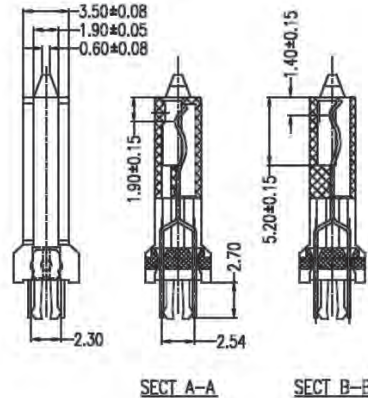
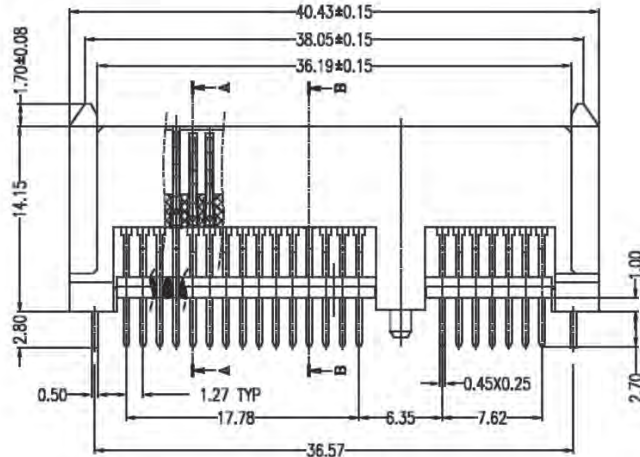
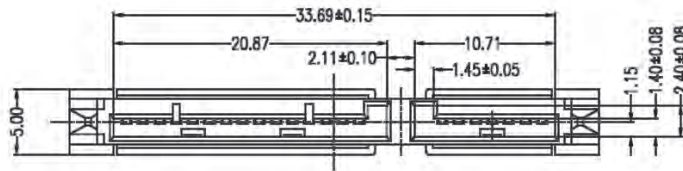
P/N S A T A  $\frac{22}{1}$  -  $\frac{K6}{2}$   $\frac{FB}{3}$   $\frac{XX}{4}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"K6" STRAIGHT DIP TYPE HEIGHT=12.0MM
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE WITH METAL POSTS



Recommended P.C. Board Layout  
Top View



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

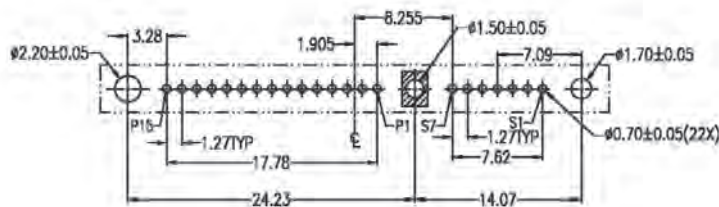
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

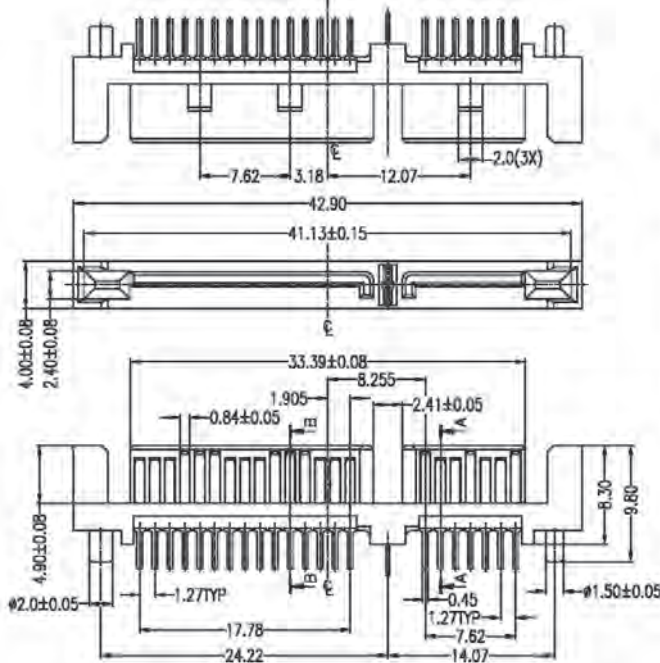
P/N S A T A  $\frac{22}{1}$  -  $\frac{K7}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"K7" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR STRAIGHT DIP TYPE FOR H.D.



**Recommended P.C. Board Layout  
Component Side (T=1.60mm)**



Signal Segment		Power Segment	
Name	Type	Name	Type
S1	GND	P1	V33 H9 V5
S2	A+	P2	V33 P10 GND
S3	A-	P3	V33 P11 DMS/DSS
S4	GND	P4	GND P12 GND
S5	B+	P5	GND P13 V12
S6	B-	P6	GND P14 V12
S7	GND	P7	V5 P15 V12
		P8	V5

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

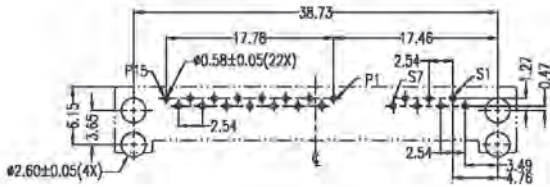
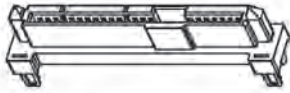
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{x}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"K8" DIM. A=2.10MM  
"K9" DIM. A=3.00MM
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR PRESS FIT TYPE



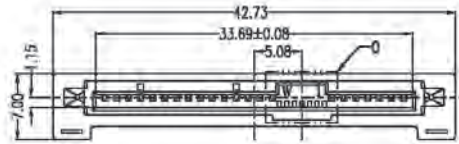
Recommended P.C. Board Layout  
Component Side (T=1.60~3.0mm)

## SPECIFICATIONS

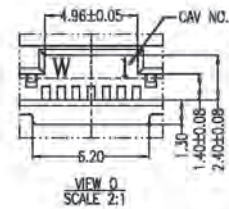
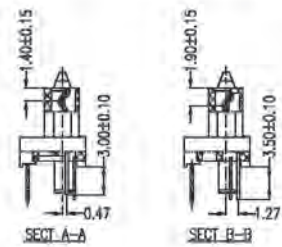
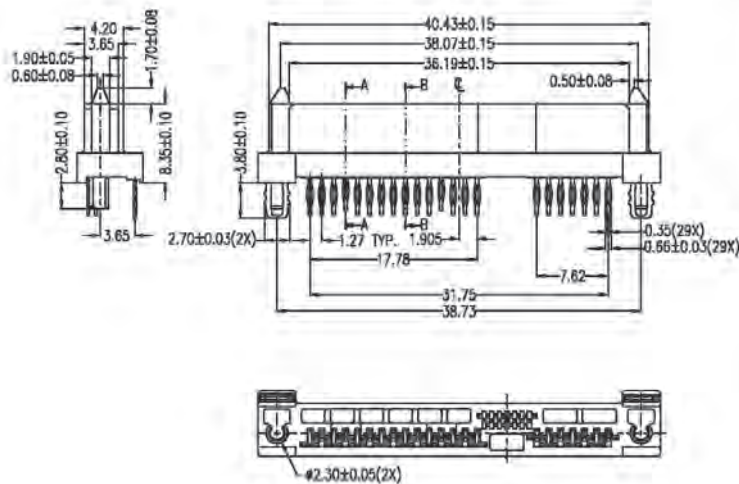
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Contact: Phosphor Bronze
- \*RoHS & REACH compliant.



Signal Segment					Power Segment				
Pin No.	Type	Segment	Material	Type	Pin No.	Type	Segment	Material	Type
S1	Signal	Ground	S1	Signal	Ground	P1	VAS	P6	V6
S2	Signal	Ground	S2	Signal	Ground	P2	VAS	P10	Ground
S3	Signal	Ground	S3	Signal	Ground	P3	VAS	P11	Ground
S4	Signal	Ground	S4	Signal	Ground	P4	Ground	P12	Ground
S5	Signal	Ground	S5	Signal	Ground	P5	Ground	P13	V15
S6	Signal	Ground	S6	Signal	Ground	P6	Ground	P14	V15
S7	Signal	Ground	S7	Signal	Ground	P7	V6	P15	V15
						P8	V6		

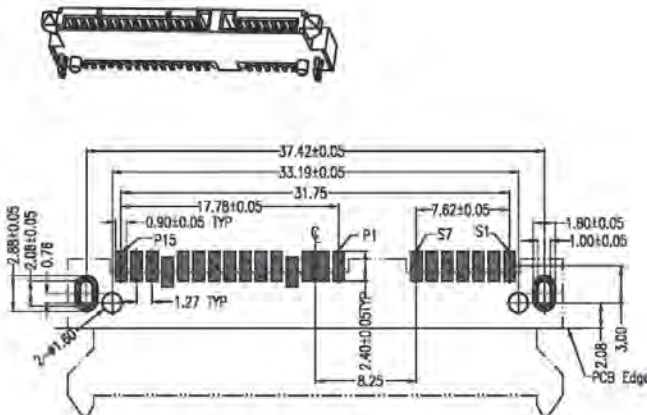


## ORDERING INFORMATION:

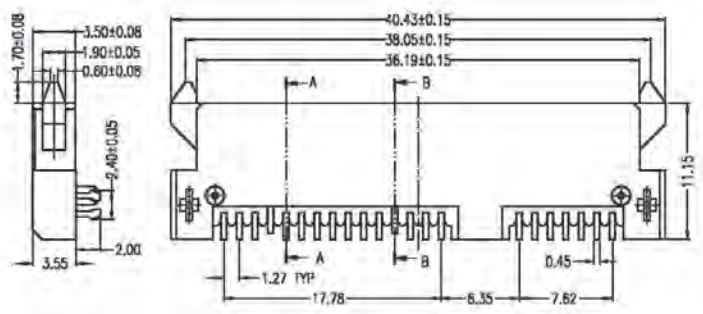
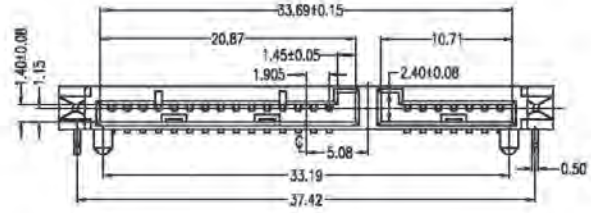
P/N S A T A  $\frac{22}{1}$  -  $\frac{P1}{2}$   $\frac{FB}{3}$   $\frac{X X}{4}$   $\frac{X X}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"P1" DOUBLE ROW PRESS FIT TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE

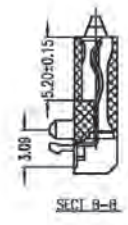
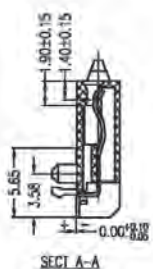


**Recommended P.C.Board Layout  
Top View (T=1.20mm)**



Signal Segment	
Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5/S6	B-
S7	GND

Power Segment	
Name	Type
P1	V33
P2	V33
P3	V33
P4	GND
P5	GND
P6	GND
P7	V5
P8	V5
P9	V5
P10	GND
P11	DAS/DSS
P12	GND
P13	V12
P14	V12
P15	V12



## ORDERING INFORMATION:

**P/N S A T A  $\frac{22}{1}$  -  $\frac{S1}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$**

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"S1" R/A SMT TYPE HEIGHT=3.55MM
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## SPECIFICATIONS

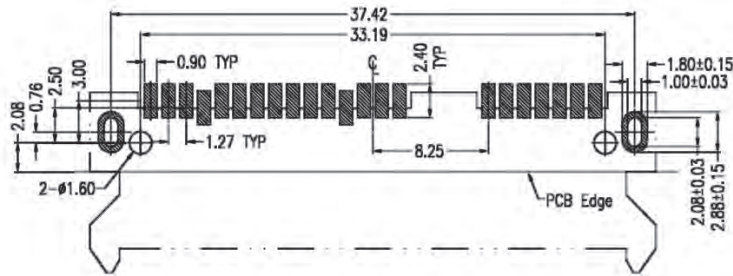
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

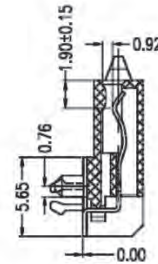
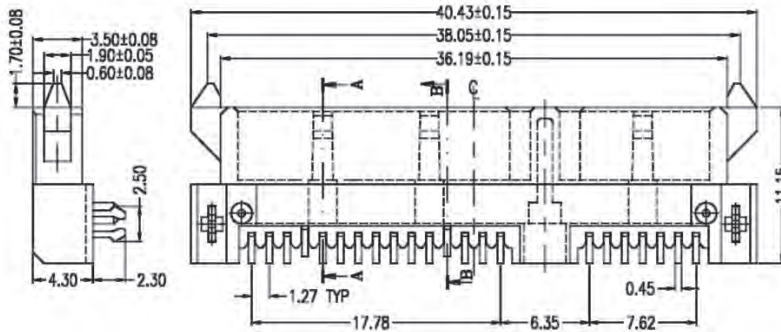
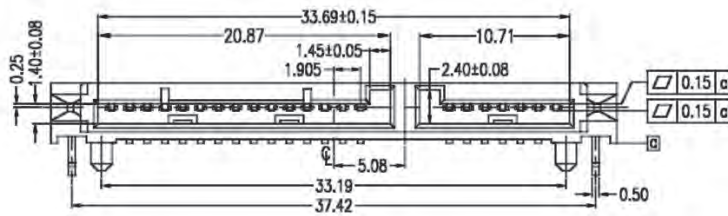
- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail
- \*RoHS & REACH compliant.



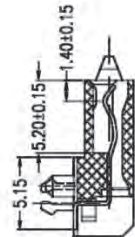
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)



SECT A-A



SECT B-B

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

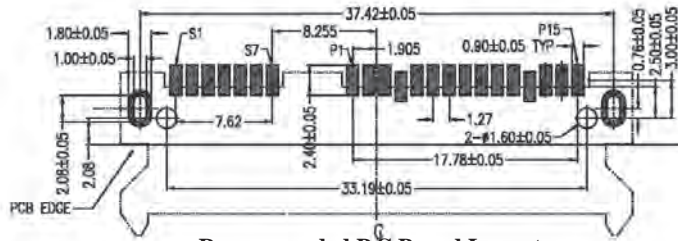
## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{S2}{2}$   $\frac{FB}{3}$   $\frac{X X}{4}$   $\frac{X X}{5}$

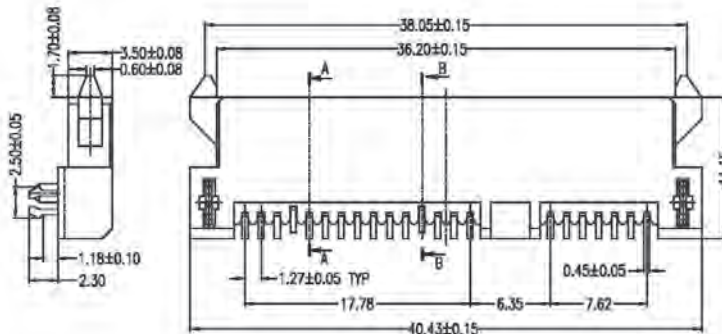
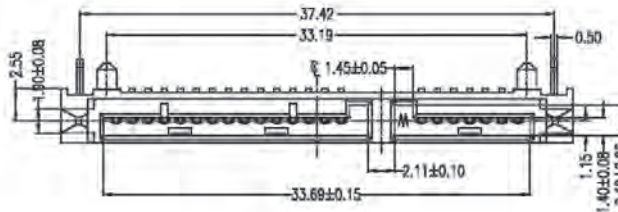
- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"S2" R/A SMT TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD



# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT R/A SMT TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20mm)



## SPECIFICATIONS

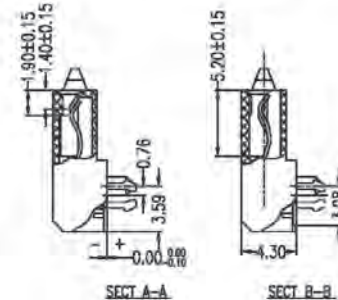
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V33	P8	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		

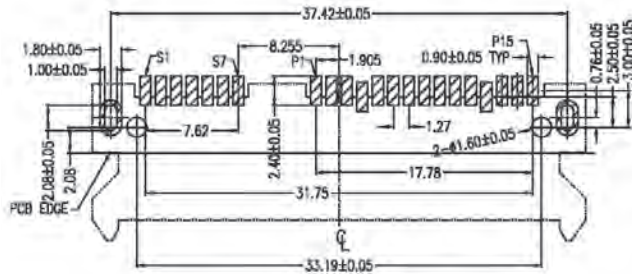
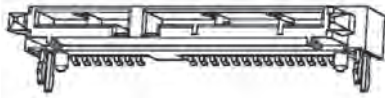


## ORDERING INFORMATION:

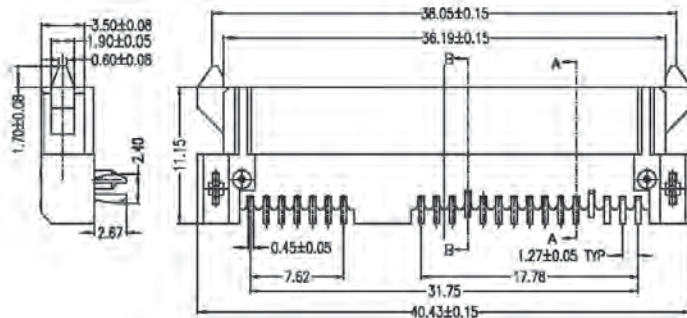
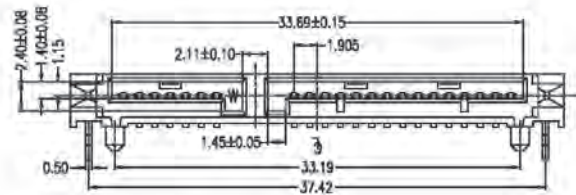
P/N S A T A  $\frac{22}{1}$  -  $\frac{S3}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"S3" REVERSE SMT TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

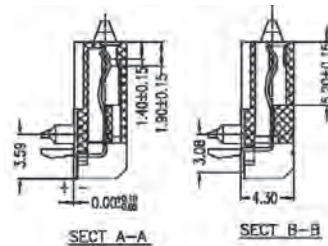
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT R/A SMT TYPE



Recommended P.C.Board Layout  
Top View (T=1.20mm)



Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V33	P9	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		



## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{S4}{2}$   $\frac{FB}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"S4" REVERSE SMT TYPE WITH RIBWORK
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD

## SPECIFICATIONS

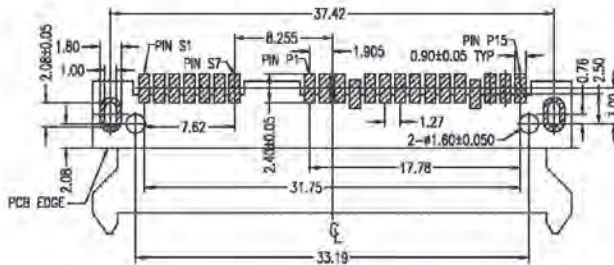
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

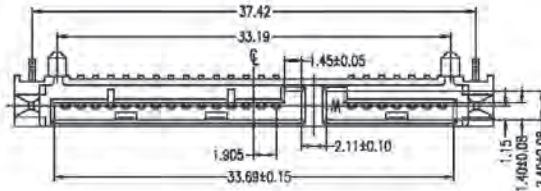
- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT R/A SMT TYPE



Recommended P.C.Board Layout  
Top View (T=1.00mm)



## SPECIFICATIONS

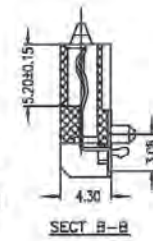
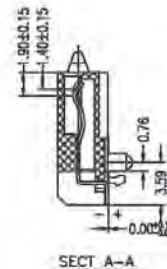
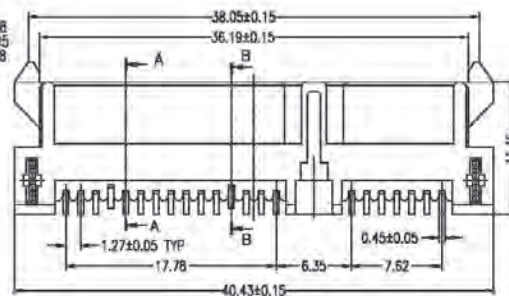
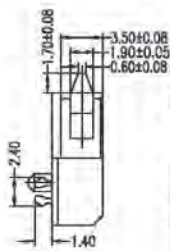
**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

Signal Segment		Power Segment	
Name	Type	Name	Type
S1	GND	P1	V33
S2	A+	P2	V33
S3	A-	P3	V33
S4	GND	P4	GND
S5	B+	P5	GND
S6	B-	P6	GND
S7	GND	P7	V5
		P8	V5

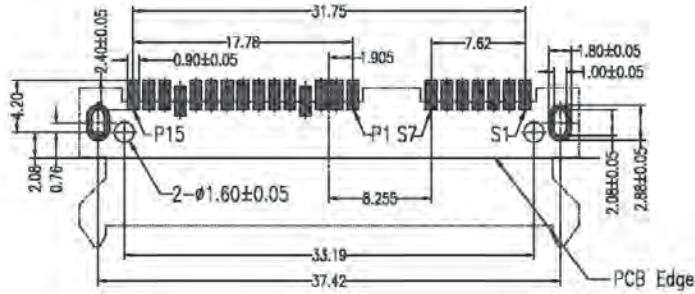


## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{S5}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"S5" REVERSE SMT TYPE WITH RIBWORK
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20mm)

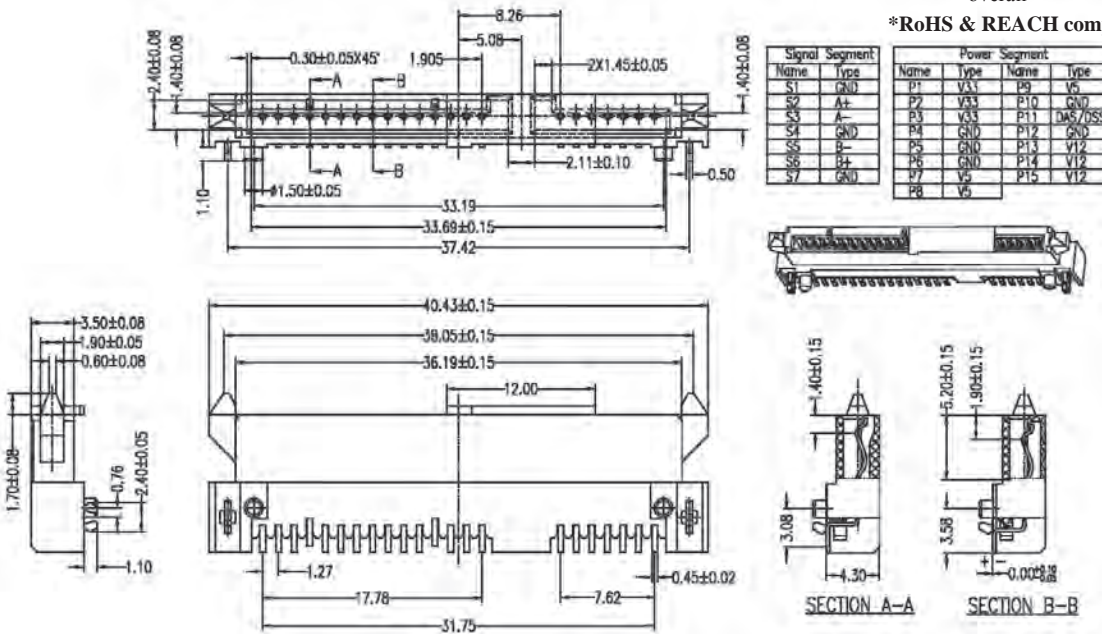
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.



Signal Segment	
Name	Type
S1	GND
S2	A±
S3	A±
S4	GND
S5	B±
S6	B±
S7	GND

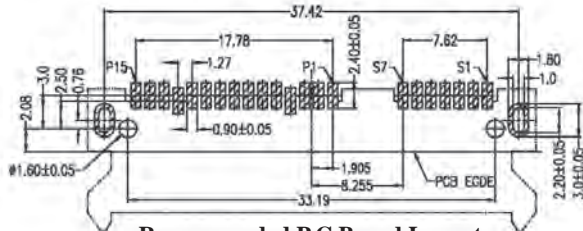
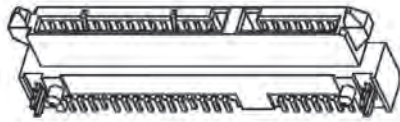
Power Segment			
Name	Type	Name	Type
P1	V33	P9	V5
P2	V33	P10	GND
P3	V33	P11	DAS/DSS
P4	GND	P12	GND
P5	GND	P13	V12
P6	GND	P14	V12
P7	V5	P15	V12
P8	V5		

## ORDERING INFORMATION:

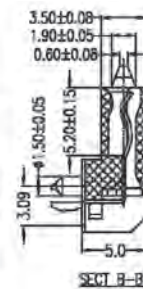
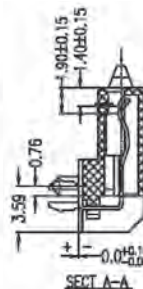
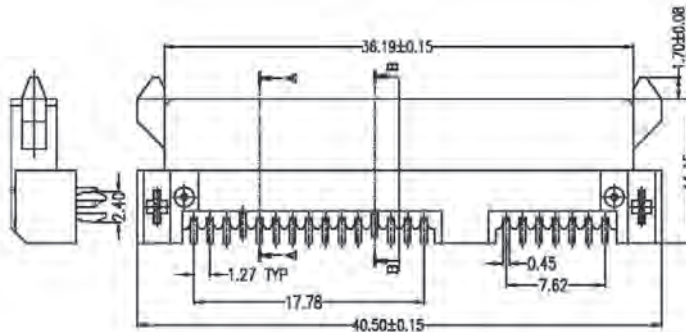
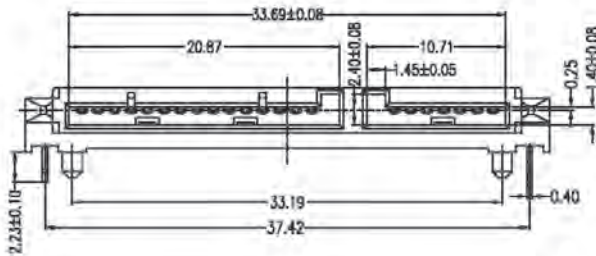
P/N S A T A  $\frac{22}{1}$  -  $\frac{S6}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$  -  $\frac{x}{6}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"S6" R/A SMT TYPE HEIGHT=4.30MM
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD
- PACKAGE TYPE  
"0" TRAY  
"T" TUBE  
"R" TAPE & REEL

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



Recommended P.C. Board Layout  
Top View (T=1.00/1.20/1.60mm)



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

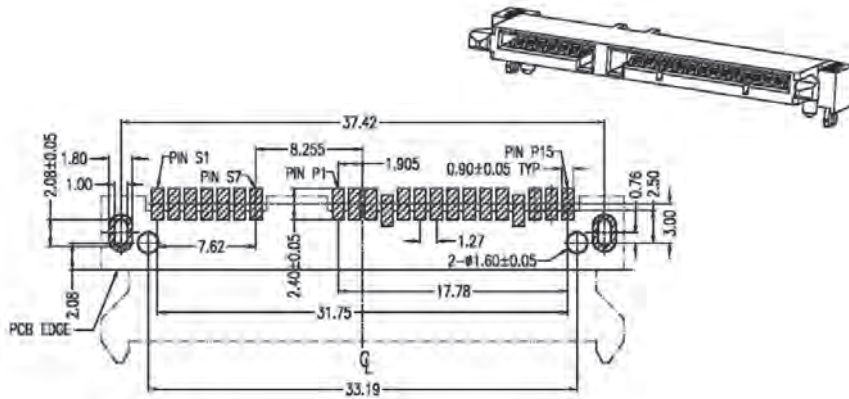
Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P7	VSS	P9	V5
S2	A+	P8	VSS	P10	GND
S3	A-	P9	VSS	P11	MS/SS
S4	GND	P10	GND	P12	GND
S5	B+	P11	GND	P13	V12
S6	B-	P12	GND	P14	V12
S7	GND	P13	V5	P15	V12
		P14	V5		

## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{S7}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"S7" RIGHT ANGLE SMT TYPE HEIGHT=5.0MM
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT UNDER BOARD SMT TYPE



Recommended P.C. Board Layout  
Top View (T=1.00/1.20/1.60mm)

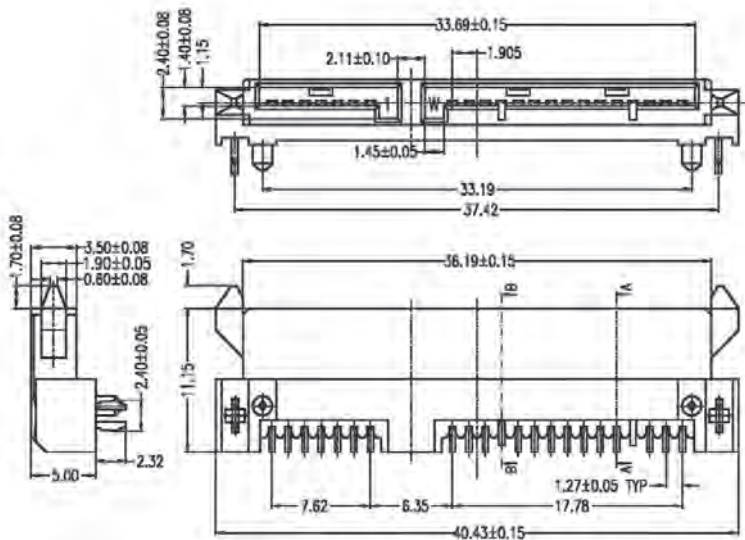
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

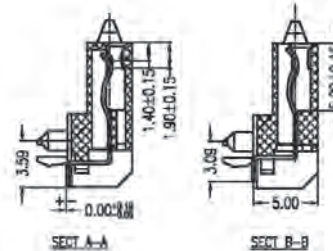
## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V3.3	P9	V5
S2	A+	P2	V3.3	P10	GND
S3	A-	P3	V3.3	P11	DAS / DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		

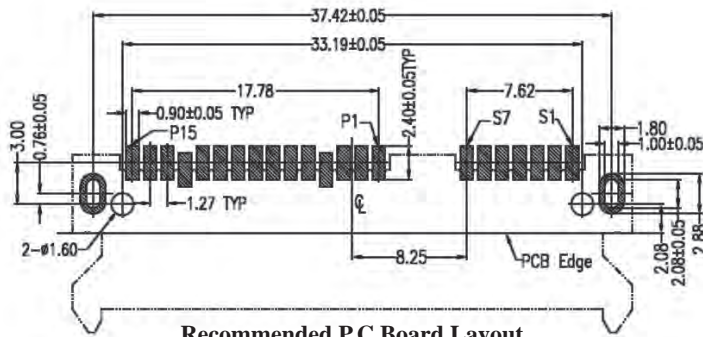


## ORDERING INFORMATION:

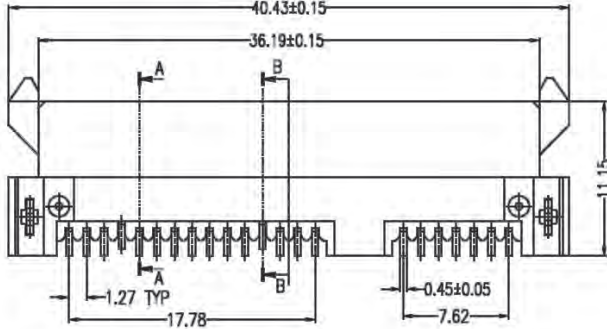
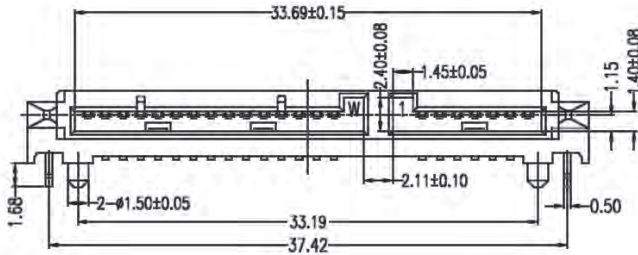
P/N S A T A  $\frac{22}{1}$  -  $\frac{S8}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"S8" REVERSE UNDER BOARD SMT TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



Recommended P.C. Board Layout  
Top View (T=1.20mm)



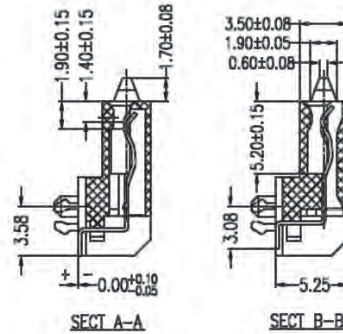
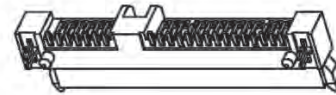
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

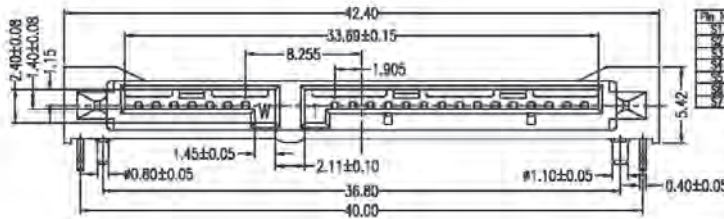
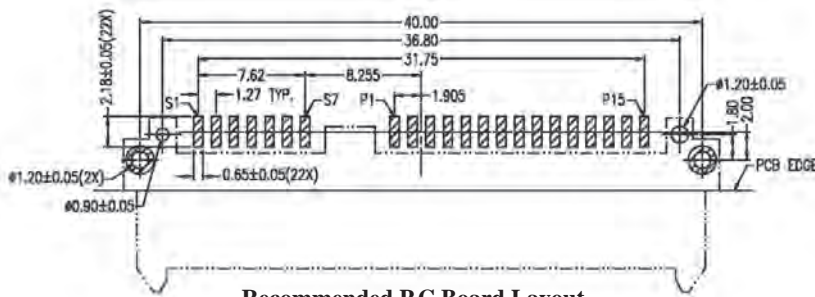


## ORDERING INFORMATION:

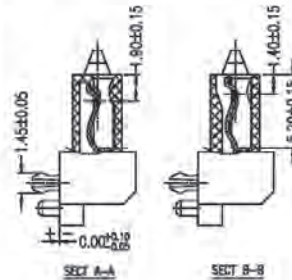
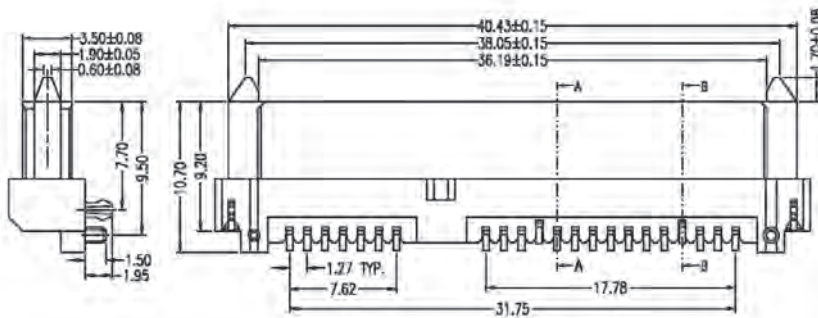
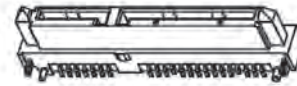
P/N S A T A  $\frac{22}{1}$  -  $\frac{S9}{2}$   $\frac{FB}{3}$   $\frac{XX}{4}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"S9" R/A SMT TYPE HEIGHT=5.25MM
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



Pin No.	Signal Name	Pin No.	Power Name	Pin No.	Power Name
1	0V	16	0V	31	0V
2	0V	17	0V	32	0V
3	0V	18	0V	33	0V
4	0V	19	0V	34	0V
5	0V	20	0V	35	0V
6	0V	21	0V	36	0V
7	0V	22	0V	37	0V
8	0V	23	0V	38	0V
9	0V	24	0V	39	0V
10	0V	25	0V	40	0V
11	0V	26	0V	41	0V
12	0V	27	0V	42	0V
13	0V	28	0V	43	0V
14	0V	29	0V	44	0V
15	0V	30	0V	45	0V



## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{T1}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$  -  $\frac{xx}{5}$  -  $\frac{x}{6}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"T1" R/A SMT TYPE HEIGHT=5.42MM
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

6. PACKAGE TYPE  
"0" TRAY  
"R" TAPE & REEL

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

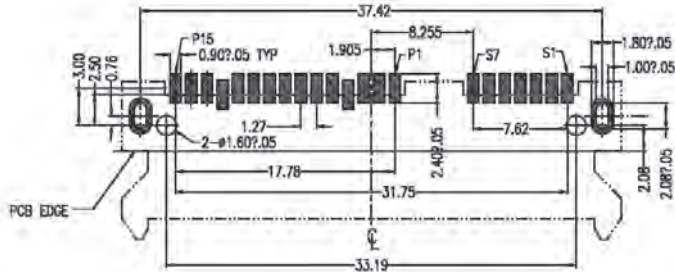
## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

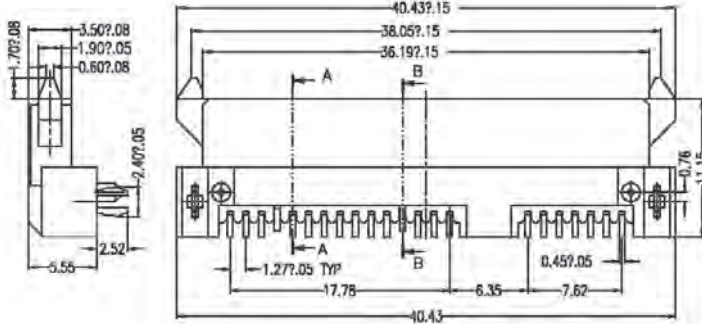
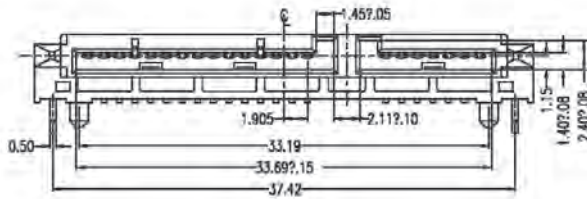
\*RoHS & REACH compliant.



# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



Recommended P.C.Board Layout  
Top View (T=1.00/1.20/1.60mm)



## SPECIFICATIONS

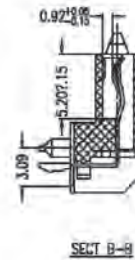
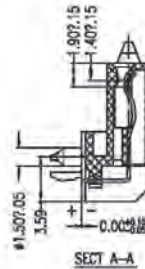
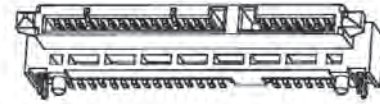
**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GN0	P1	V33	P2	V5
S2	AT	P3	V33	P10	GN0
S3	AT	P4	V33	P11	DAS/ASS
S4	GN0	P5	GN0	P12	GN0
S5	F	P6	GN0	P13	V12
S6	AT	P7	GN0	P14	V12
S7	GN0	P8	V5	P15	V12
		P9	V5		

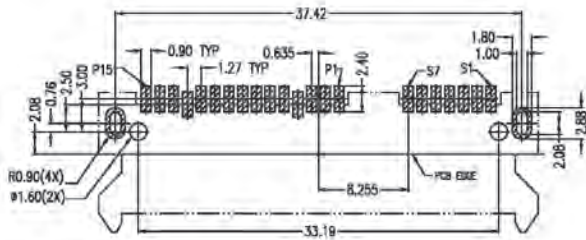


## ORDERING INFORMATION:

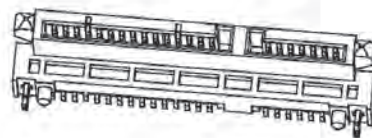
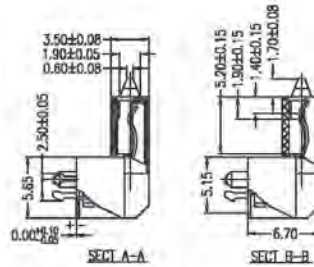
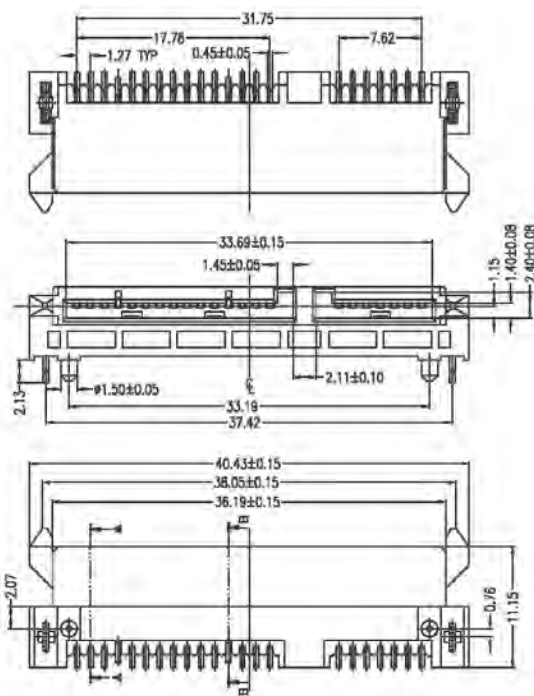
P/N S A T A  $\frac{22}{1}$  -  $\frac{T2}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"T2" R/A SMT TYPE HEIGHT=5.55MM
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.20mm)



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

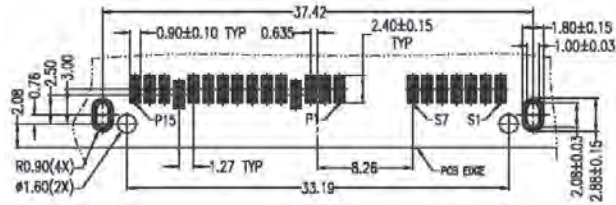
Signal Segment		Power Segment	
Name	Type	Name	Type
S1	SS0	P1	VSS
S2	A1	P2	VSS
S3	A1	P3	VSS
S4	SS0	P4	GND
S5	SS0	P5	GND
S6	SS0	P6	GND
		P7	VSS
		P8	VSS
		P9	GND
		P10	GND
		P11	SS0/SS1
		P12	SS0
		P13	VSS
		P14	VSS
		P15	VSS

## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{T}{2}$   $\frac{3}{3}$   $\frac{F}{4}$   $\frac{B}{5}$  x x

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"T4" SATA FOR BACK PLATE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20mm)

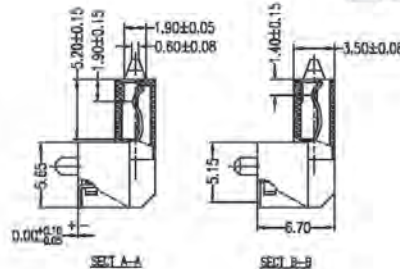
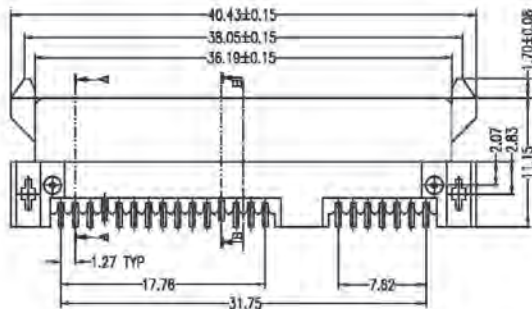
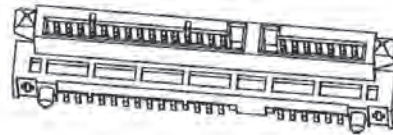
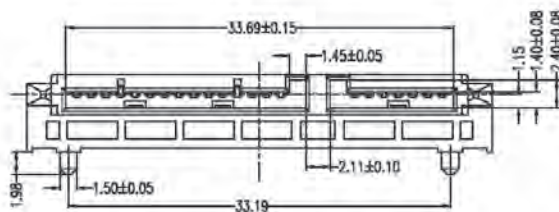
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



Signal Segment Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B+
S6	B-
S7	GND

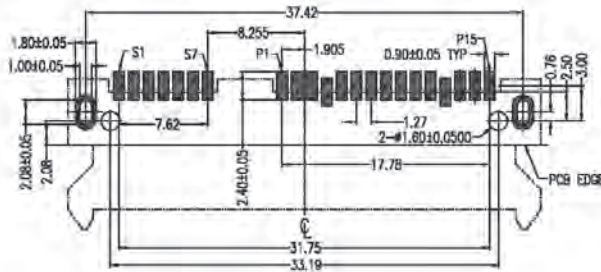
Power Segment Name	Type
P1	V+1
P2	V+3
P3	V+5
P4	GND
P5	GND
P6	GND
P7	V-
P8	V-
P9	V-
P10	GND
P11	WS/SS
P12	GND
P13	V12
P14	V14
P15	V12

## ORDERING INFORMATION:

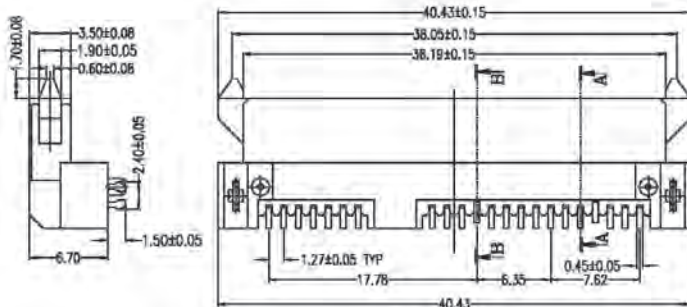
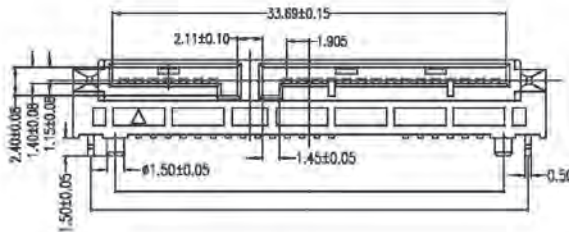
P/N S A T A  $\frac{22}{1}$  -  $\frac{T4}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"T4" SATA FOR BACK PLATE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR UNDER BOARD SMT TYPE



Recommended P.C. Board Layout  
Top View (T=1.20mm)



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

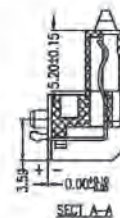
## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

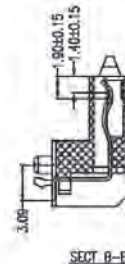
\*RoHS & REACH compliant.



Signal Segment		Power Segment	
Name	Type	Name	Type
S1	GND	P1	V3
S2	A+	P2	V3
S3	A-	P3	V3
S4	GND	P4	GND
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND	P7	V5
		P8	V5
		P9	GND
		P10	GND
		P11	DAS/DSS
		P12	GND
		P13	V12
		P14	V12
		P15	V12
		P16	V12



SECT A-A



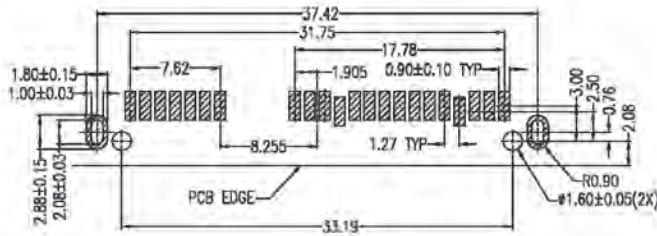
SECT B-B

## ORDERING INFORMATION:

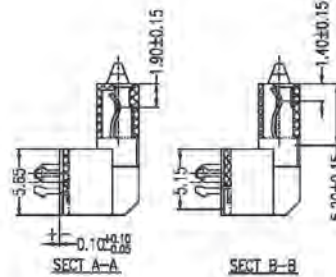
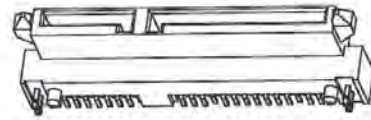
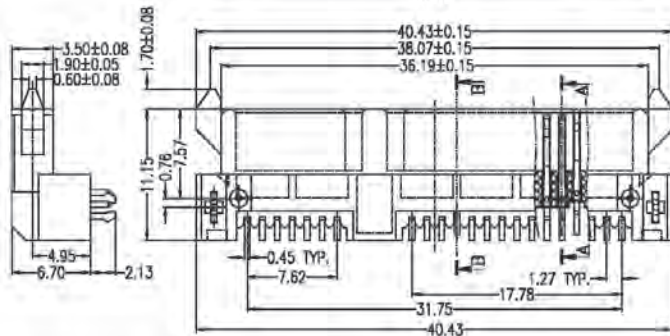
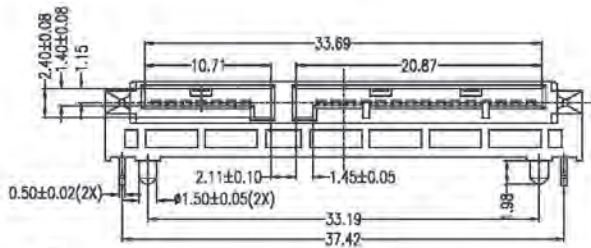
P/N S A T A  $\frac{22}{1}$  -  $\frac{T5}{2}$   $\frac{FB}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"T5" SATA FOR BACK PLATE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR UNDER BOARD SMT TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20mm)



Pin NO.	Power Name	Pin NO.	Power Name
P1	VSS	P9	V5
P2	VSS	P10	GND
P3	VSS	P11	DAS/DSS
P4	GND	P12	GND
P5	GND	P13	V12
P6	GND	P14	V12
P7	V5	P15	V12
P8	V5		

Pin NO.	Signal Name
S1	GND
S2	DA
S3	A-
S4	GND
S5	DA
S7	GND

## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Au Plating on Contact Area;

Sn (100μ" Min.) Plating on Solder

Tail; Ni (40μ" Min.) Underplating

overall

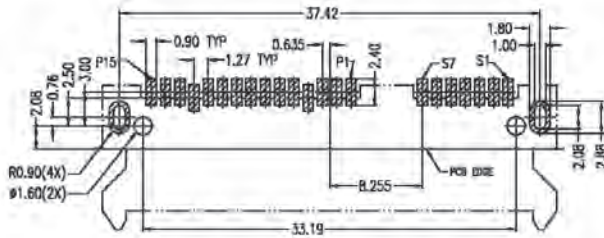
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

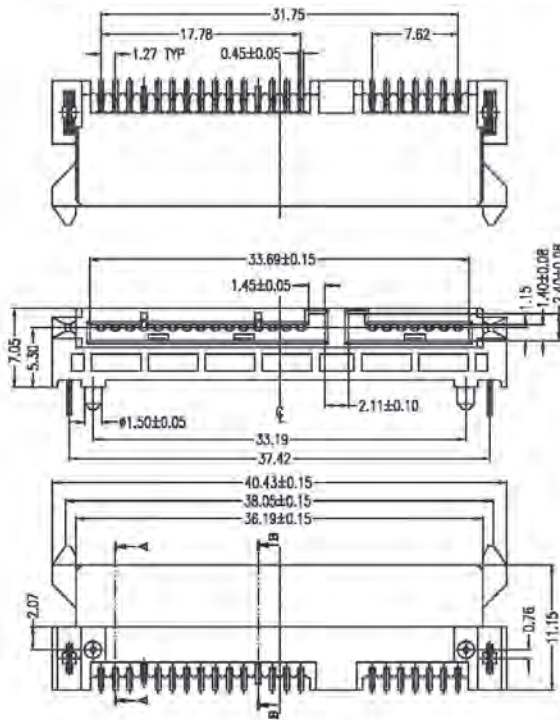
P/N S A T A  $\frac{22}{1}$  -  $\frac{T6}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"T6" UNDER BOARD SMT TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

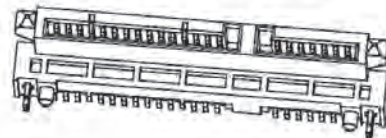
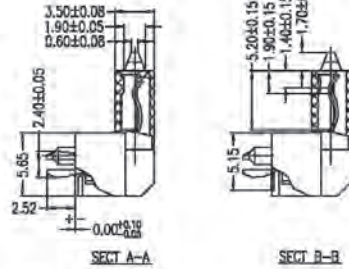
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



Recommended P.C. Board Layout  
Component Side (T=1.20/1.6mm)



Signal Segment		Power Segment			
Name	Type	Name	Type	Norma	Type
S1	GND	P1	V33	P5	V5
S2	A-	P2	V33	P10	GND
S3	A+	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

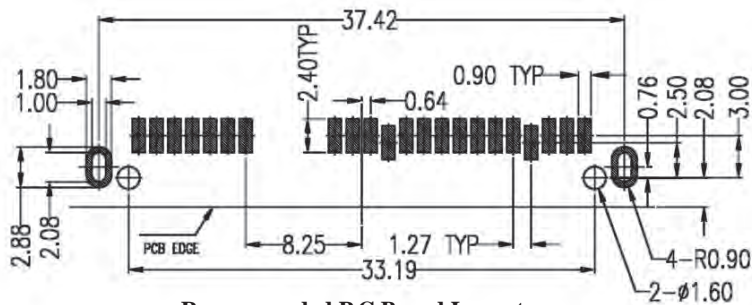
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

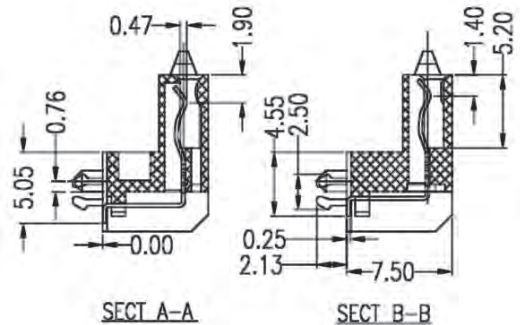
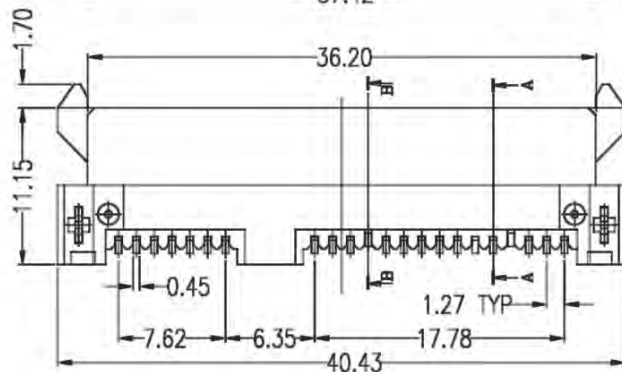
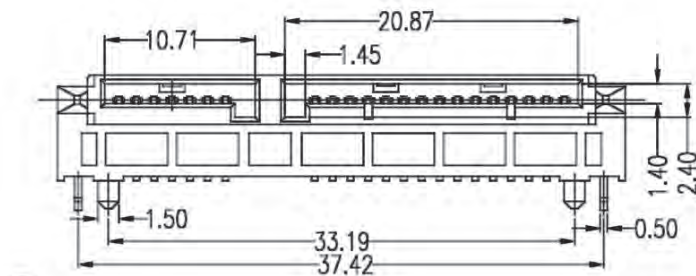
P/N S A T A  $\frac{22}{1}$  -  $\frac{T7}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"T7" R/A SMT TYPE (7.05)
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C.Board Layout  
(T=1.20mm)



## SPECIFICATIONS

Current Rating: 1.5 Amperes  
 Insulation Resistance: 1000MΩ Min  
 Dielectric Withstanding: 500V AC  
 Contact Resistance: 30mΩ Max.  
 Operating Temperature: -55°C to +125°C

## MATERIALS

Housing: LCP, UL94V-0  
 Contact: Phosphor Bronze  
 Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

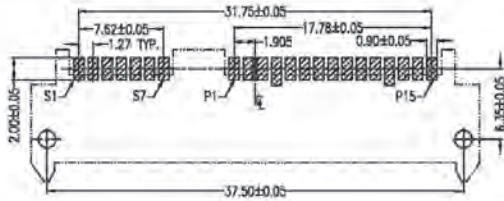
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{T8}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

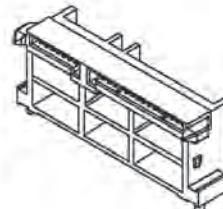
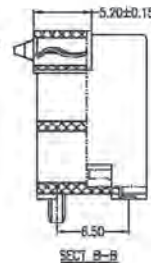
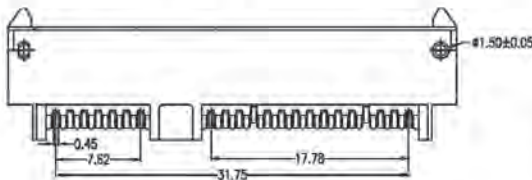
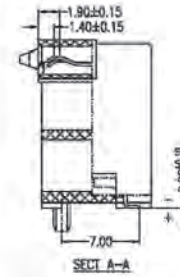
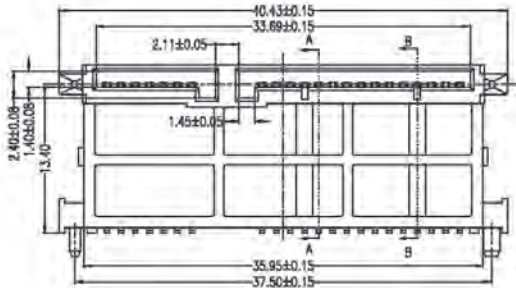
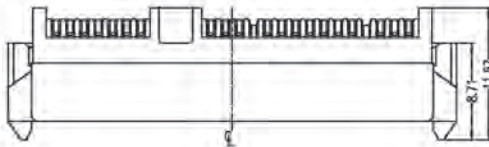
1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"T8" REVERSE SMT TYPE (7.5)
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C. Board Layout  
Component Side (T=1.60mm)

Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V13	P9	V5
S2	A+	P2	V13	P10	GND
S3	A-	P3	V13	P11	DMS/DSS
S4	GND	P4	GND	P12	GND
S5	B+	P5	GND	P13	V12
S6	B-	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		PR	V5		



## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Au Plating on Contact Area;

Sn (100u" Min.) Plating on Solder

Tail; Ni (40u" Min.) Underplating

overall

\*RoHS & REACH compliant.

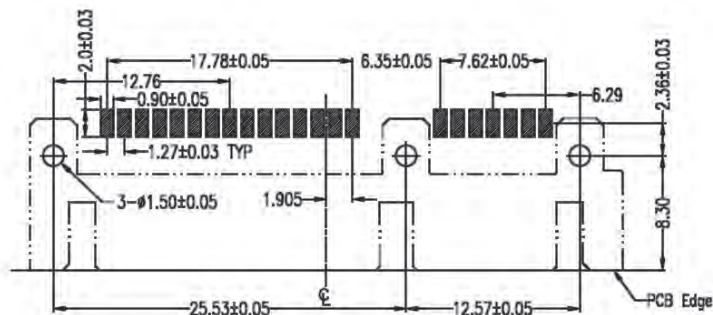
## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{T9}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

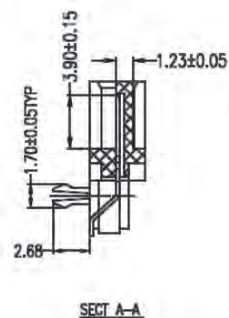
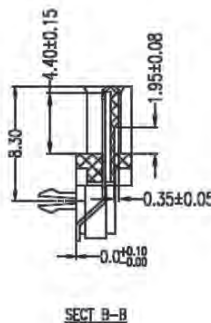
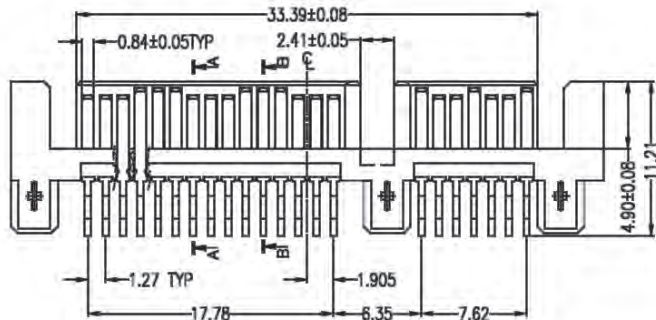
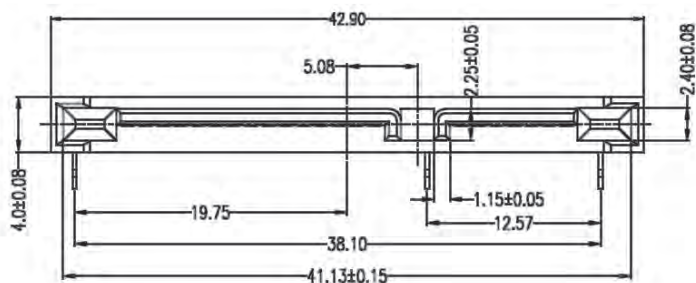
- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"T9" REVERSE SMT TYPE (15.15)
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD



# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR SMT TYPE



Recommended P.C. Board Layout  
Top View



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

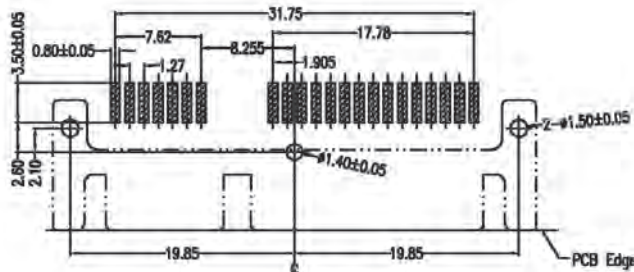
## ORDERING INFORMATION:

P/N S A T A 22 - U 1 M B x x  
1 2 3 4 5

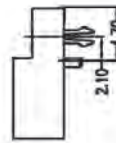
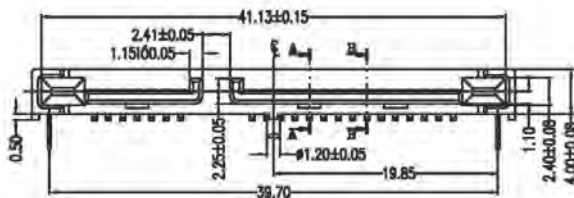
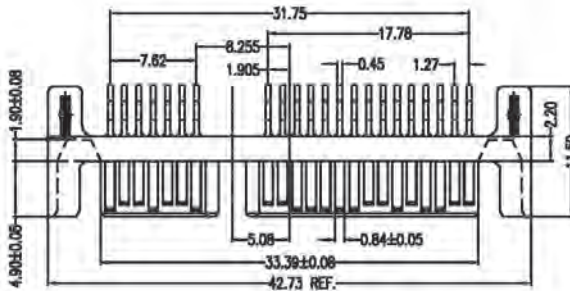
1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"U1" SATA FOR H.D.
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD



# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR REVERSE MOUNT SMT TYPE

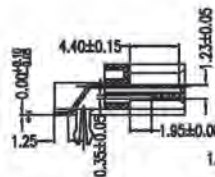


Recommended P.C.Board Layout  
Top View (T=1.60mm)

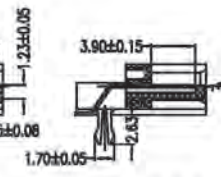


Signal Segment	
Name	Type
P1	GN
P2	GN
P3	GN
P4	GN
P5	GN
P6	GN
P7	GN
P8	GN
P9	GN
P10	GN
P11	GN
P12	GN
P13	GN
P14	GN
P15	GN

Power Segment	
Name	Type
P1	VSS
P2	VSS
P3	VSS
P4	GN
P5	GN
P6	GN
P7	V5
P8	V5
P9	V5
P10	GN
P11	D6E/D6S
P12	GN
P13	V12
P14	V12
P15	V12



SECT A-A



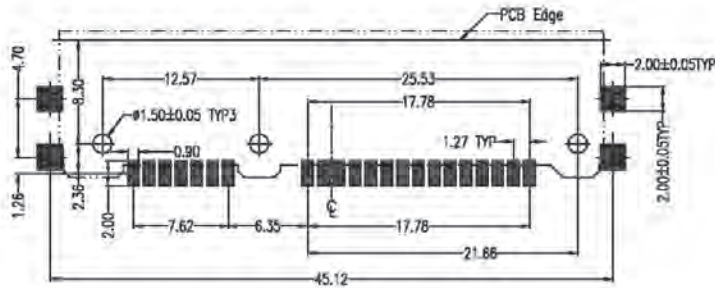
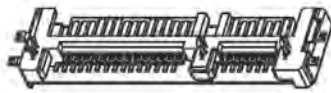
SECT B-B

## ORDERING INFORMATION:

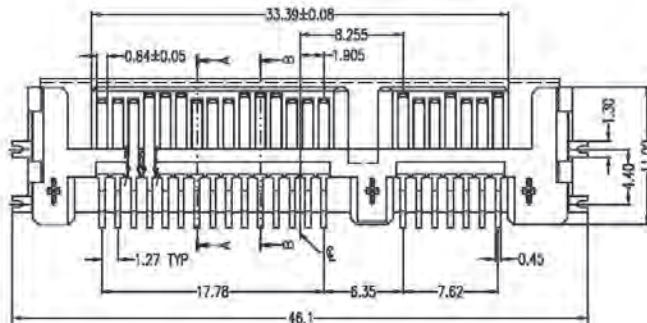
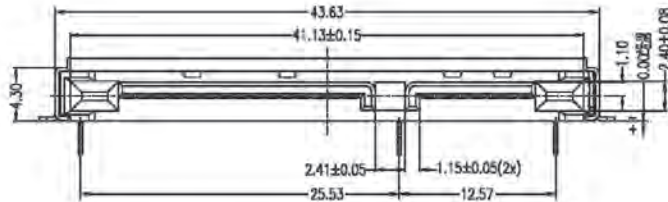
P/N S A T A  $\frac{2}{1}$   $\frac{2}{2}$  - U  $\frac{2}{3}$  M B  $\frac{x}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"U2" REVERSE R/A SMT TYPE
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR METAL SHIELDED SMT TYPE

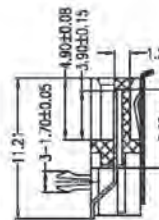


**Recommended P.C. Board Layout  
Component Side (T=1.60mm)**

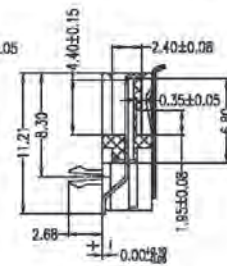


Signal Segment	
Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND

Power Segment			
Name	Type	Name	Type
P1	V33	P9	V5
P2	V33	P10	GND
P3	V33	P11	DAS/DSS
P4	GND	P12	GND
P5	GND	P13	V12
P6	GND	P14	V12
P7	V5	P15	V12
P8	V5		



**SECT A-A**



**SECT B-B**

## ORDERING INFORMATION:

**P/N S A T A  $\frac{22}{1}$  - U  $\frac{3}{2}$  M B  $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$**

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"U3" SATA FOR H.D.
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SPECIFICATIONS

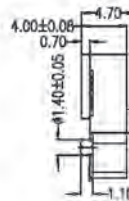
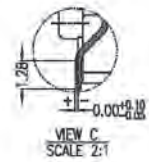
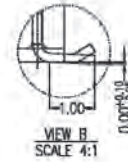
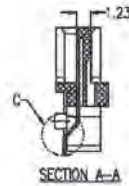
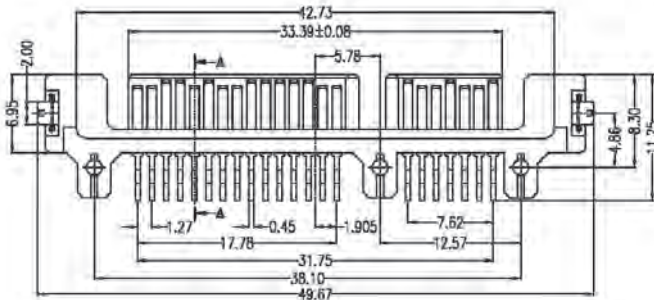
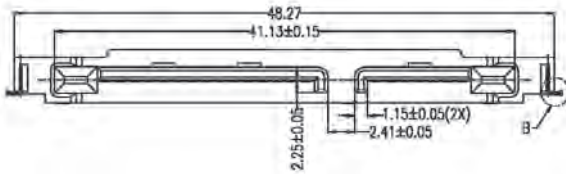
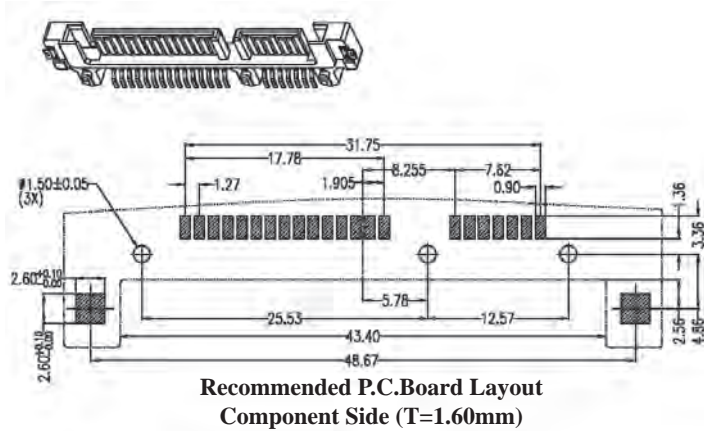
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR RIGHT ANGLE SMT TYPE



Signal Segment	
Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND

Power Segment	
Name	Type
P1	VLL
P2	VLL
P3	VLL
P4	GND
P5	GND
P6	GND
P7	V5
P8	V5
P9	V5
P10	GND
P11	DAS/DSS
P12	GND
P13	V12
P14	V12
P15	V12

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

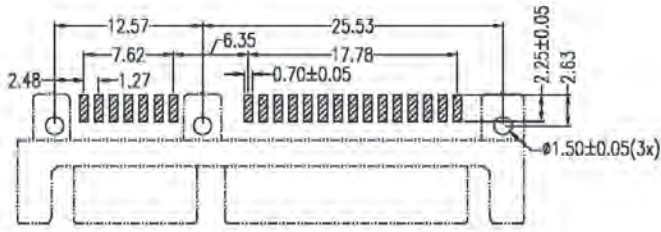
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

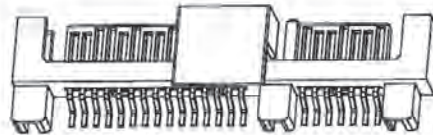
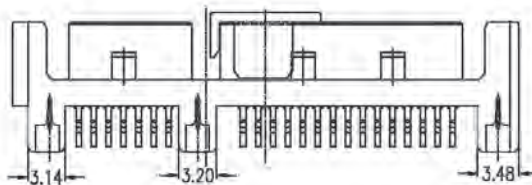
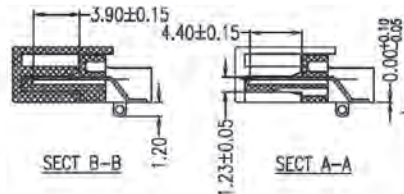
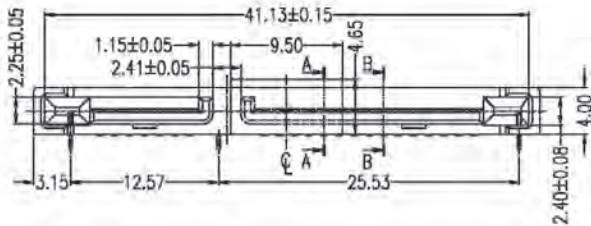
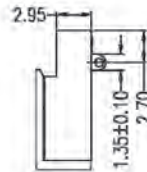
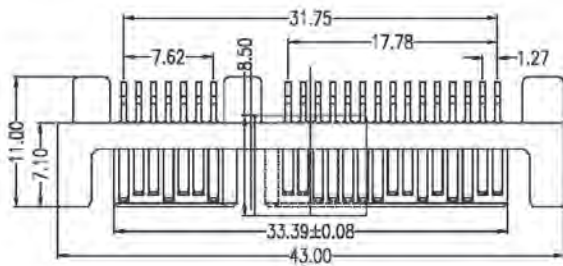
**P/N S A T A  $\frac{22}{1}$  - U  $\frac{4}{2}$  M B  $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$**

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"U4" R/A SMT TYPE
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Component Side



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

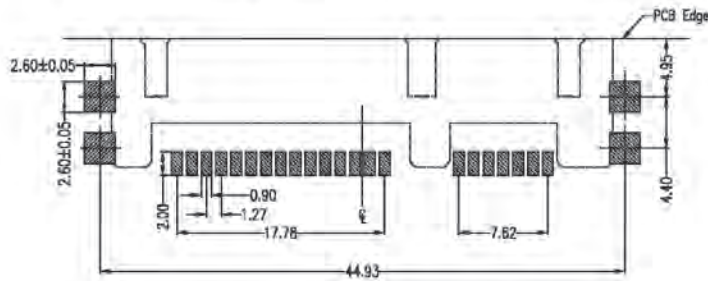
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

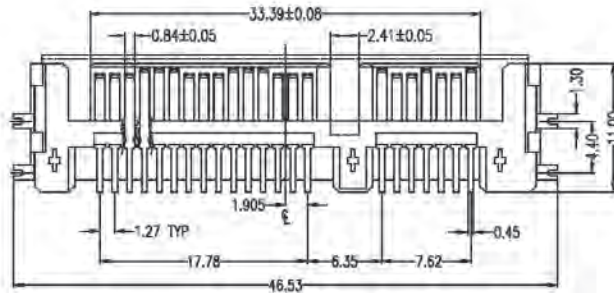
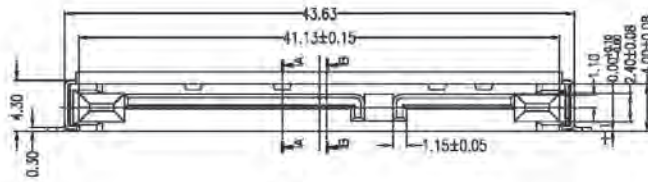
P/N S A T A  $\frac{22}{1}$  - U  $\frac{5}{2}$  M B  $\frac{x}{3}$   $\frac{x}{4}$  -  $\frac{x}{5}$   $\frac{x}{6}$

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>1. NO. OF CONTACTS:<br/>"22" 7P+15P</li> <li>2. CONNECTOR CODE:<br/>"U5" SMT TYPE WITH PLANE HARPOON</li> <li>3. CONTACT TYPE:<br/>"M" MALE</li> <li>4. INSULATOR COLOR:<br/>"B" BLACK</li> <li>5. CONTACT FINISH:<br/>"01" GOLD FLASH<br/>"15" 15 MICROINCH GOLD<br/>"30" 30 MICROINCH GOLD</li> </ul> | <ul style="list-style-type: none"> <li>6. PACKAGE TYPE"<br/>"0" TRAY<br/>"T" TUBE<br/>"Q" WITH PAD IN TAPE &amp; REEL</li> </ul> |
|--|--|

# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR METAL SHIELDED SMT TYPE



**Recommended P.C. Board Layout  
Component Side (T=1.60mm)**



## SPECIFICATIONS

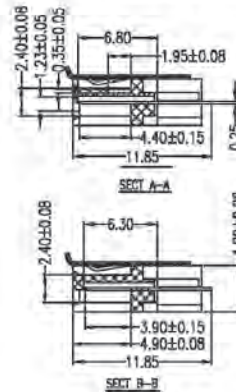
- Current Rating:** 1.5 Amperes
- Insulation Resistance:** 1000MΩ Min
- Dielectric Withstanding:** 500V AC
- Contact Resistance:** 30mΩ Max.
- Operating Temperature:** -55°C to +85°C

## MATERIALS

- Housing:** LCP, UL94V-0
- Contact:** Brass
- Plating:** Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V33	P9	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		

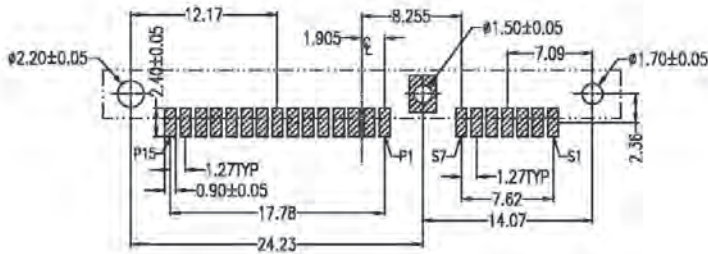


## ORDERING INFORMATION:

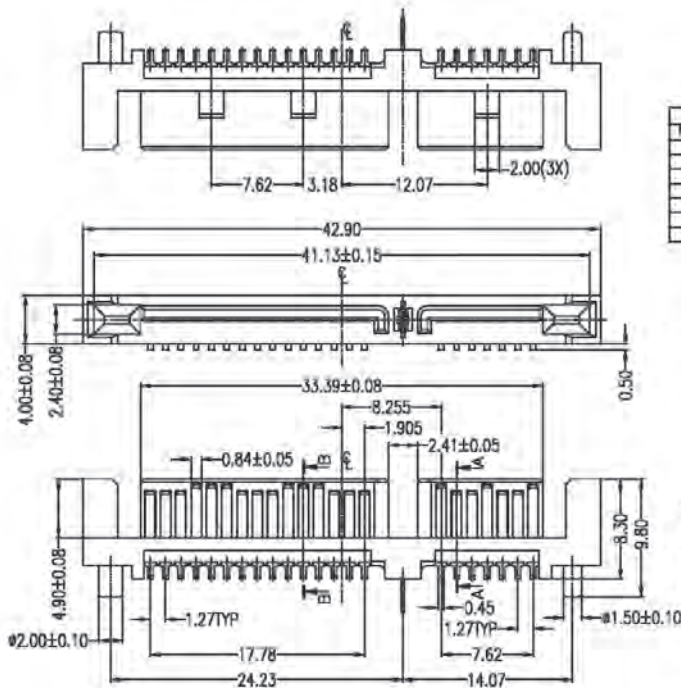
**P/N S A T A  $\frac{22}{1}$  - U  $\frac{6}{2}$  M B  $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$**

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"U6" SATA FOR H.D.
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

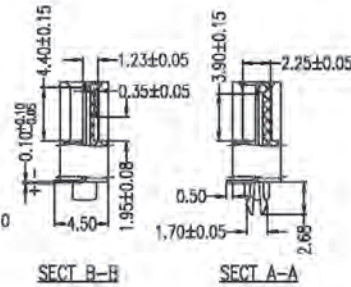
# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR STRAIGHT SMT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.60mm)



Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	VAS1	P10	V5
S2	A+	P2	VAS1	P11	GND
S3	A-	P3	V33	P12	DAS/SS
S4	GND	P4	GND	P13	GND
S5	P-	P5	GND	P14	V12
S6	P+	P6	GND	P15	V12
S7	GND	P7	V5	P15	V12
		P8	V5		



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

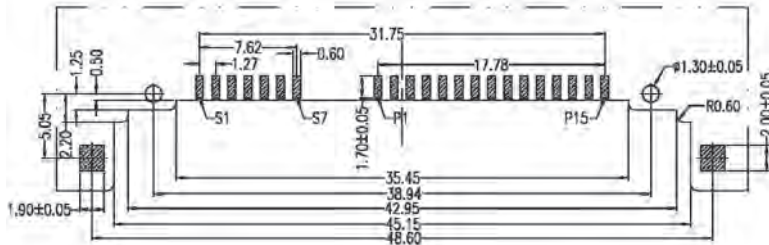
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

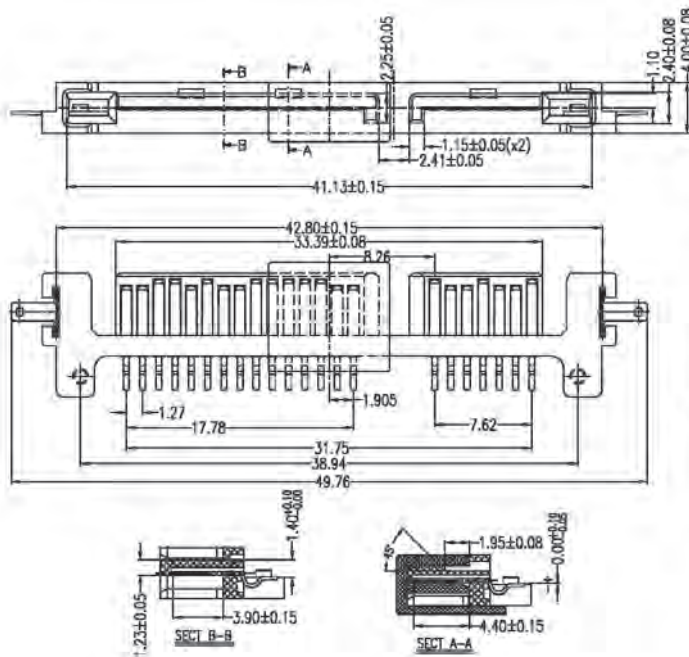
P/N S A T A  $\frac{22}{1}$  - U  $\frac{7}{2}$  M  $\frac{B}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"U7" SATA FOR H.D.
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR REVERSE MOUNT SMT TYPE

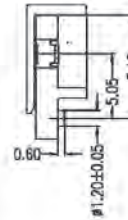


Recommended P.C. Board Layout  
Component Side (T=1.60mm)



Signal Segment	
Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND

Power Segment	
Name	Type
P1	V33
P2	V33
P3	V33
P4	GND
P5	GND
P6	GND
P7	V5
P8	V5
P9	V5
P10	GND
P11	DAS/DSS
P12	GND
P13	V12
P14	V12
P15	V12



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Sn (100" Min.) Plating on Solder  
Tail; Ni (40" Min.) Underplating  
overall

\*RoHS & REACH compliant.

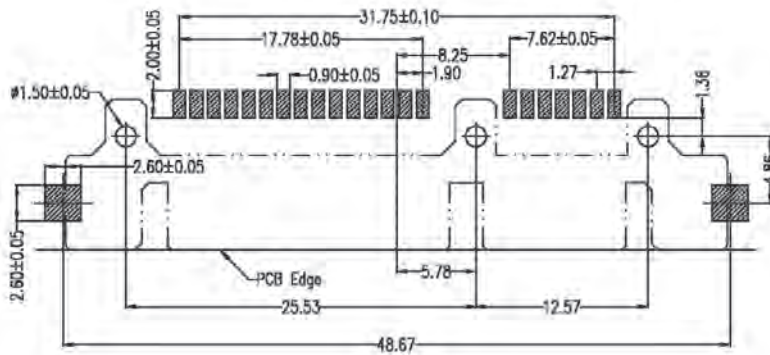
## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{U8}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{x}{5}$  -  $\frac{x}{6}$

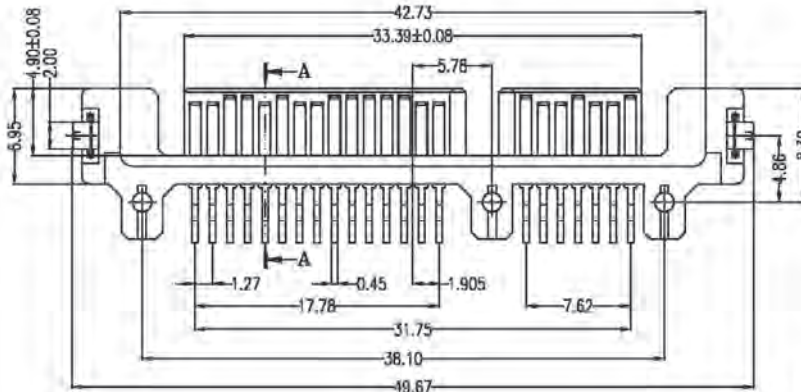
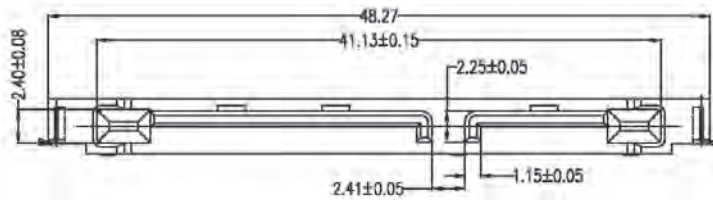
- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"U8" REVERSE SUBSIDE SMT TYPE
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD
- PACKAGE TYPE:  
"0" TRAY  
"Q" WITH PAD IN TAPE & REEL



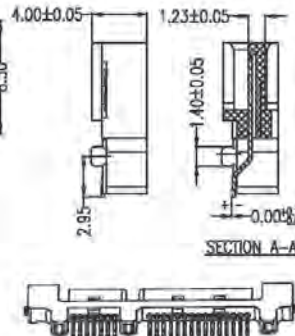
# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR RIGHT ANGLE SMT TYPE



Recommended P.C.Board Layout



Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V33	P9	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		



SECTION A-A



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

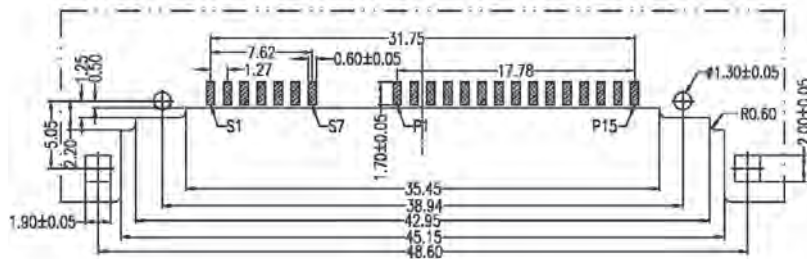
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

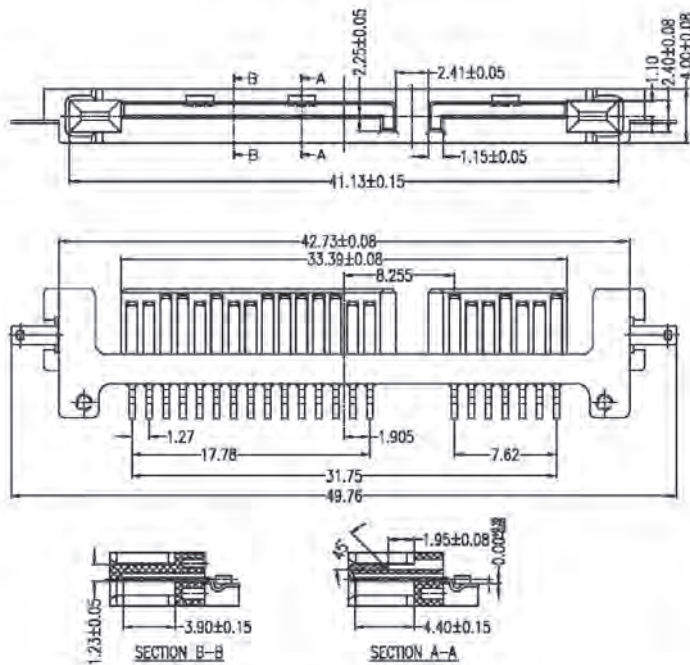
P/N S A T A 22 - U9 M B x x  
1 2 3 4 5

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"U9" R/A SUBSIDE SMT TYPE
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C. Board Layout  
Component Side (T=1.60mm)



## SPECIFICATIONS

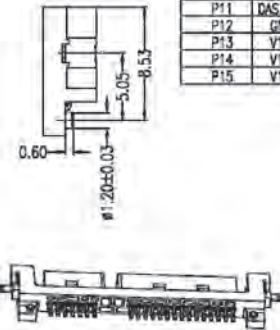
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

Signal Segment		Power Segment	
Name	Type	Name	Type
S1	GND	P1	V33
S2	A+	P2	V33
S3	A-	P3	V33
S4	GND	P4	GND
S5	B-	P5	GND
S6	B+	P6	GND
S7	GND	P7	V5
		P8	V5
		P9	V5
		P10	GND
		P11	DAS/DSS
		P12	GND
		P13	V12
		P14	V12
		P15	V12

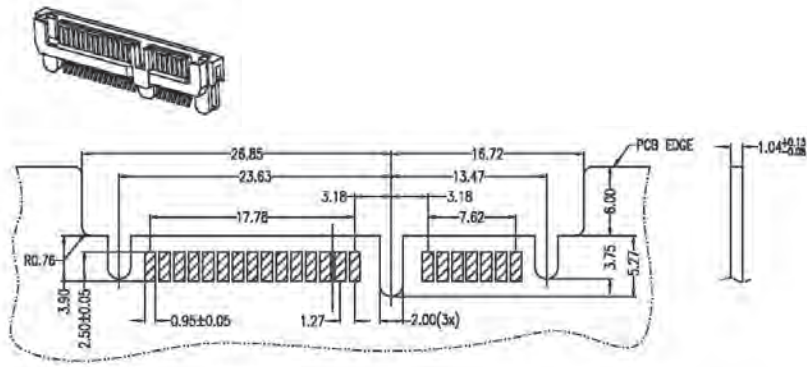


## ORDERING INFORMATION:

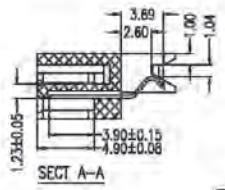
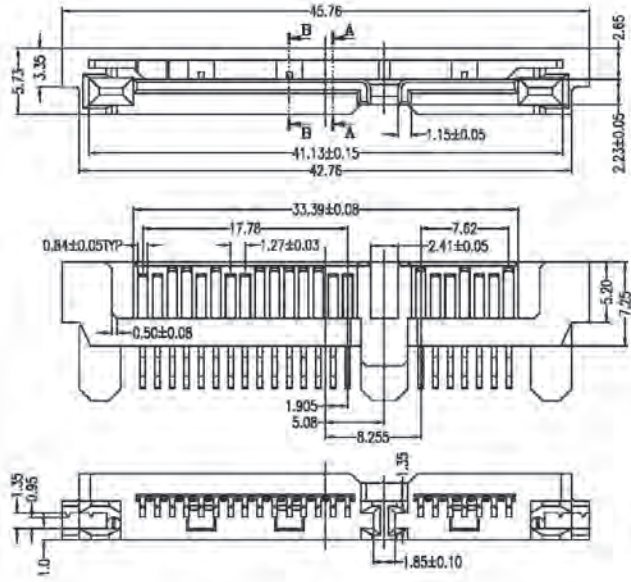
P/N S A T A  $\frac{22}{1}$  - V  $\frac{1}{2}$  M B  $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"V1" REVERSE SUBSIDE SMT TYPE
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR STRADDLE TYPE

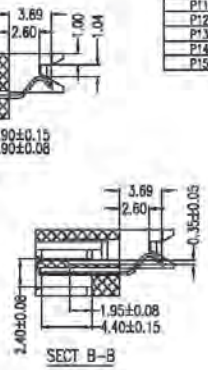


**Recommended P.C.Board Layout  
Component Side**



Signal Segment	
Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND

Power Segment	
Name	Type
P1	V33
P2	V33
P3	V33
P4	GND
P5	GND
P6	GND
P7	V5
P8	V5
P9	V5
P10	GND
P11	DMS/DSS
P12	GND
P13	V12
P14	V12
P15	V12



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

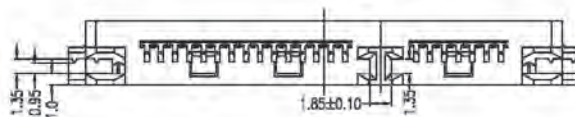
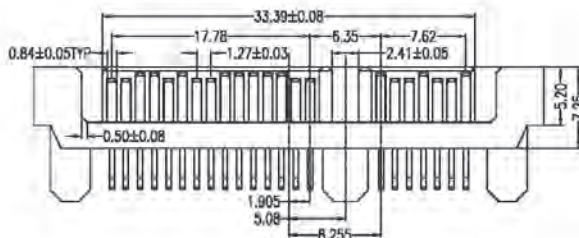
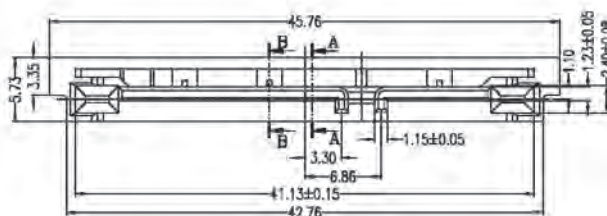
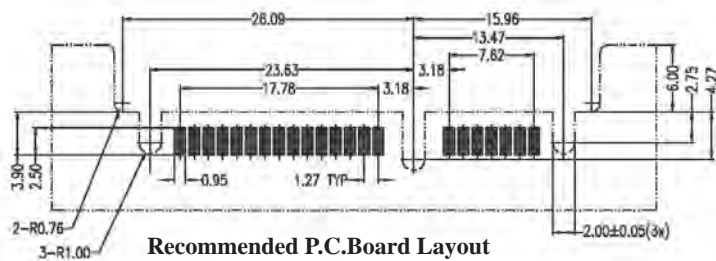
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

**P/N S A T A  $\frac{22}{1}$  -  $\frac{V2}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$**

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"V2" SATA FOR MOTHER
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

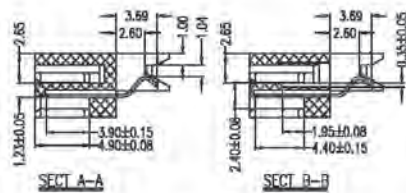
# SERIAL ATA (SATA) 7+15 PIN MALE CONNECTOR STRADDLE TYPE



Signal Segment	
Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B-
S6	B+
S7	GND

Power Segment			
Name	Type	Name	Type
P1	V33	P9	V5
P2	V33	P10	GND
P3	V33	P11	DAS/DSS
P4	GND	P12	GND
P5	GND	P13	V12
P6	GND	P14	V12
P7	V5	P15	V12
P8	V5		

\*RoHS & REACH compliant.

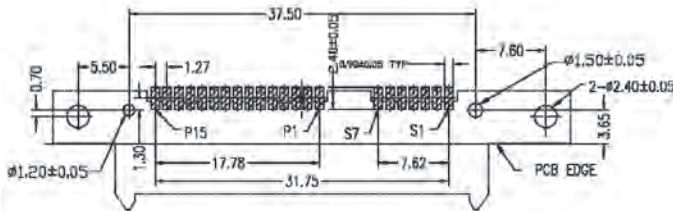


## ORDERING INFORMATION:

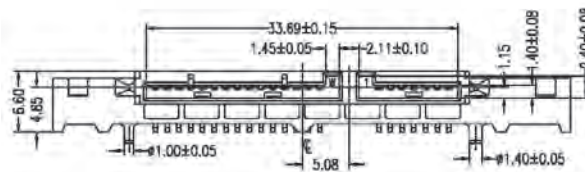
P/N S A T A  $\frac{22}{1}$  - V  $\frac{3}{2}$  M B  $\frac{x}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"V3" SATA FOR MOTHER
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

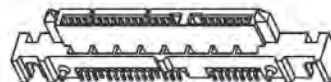
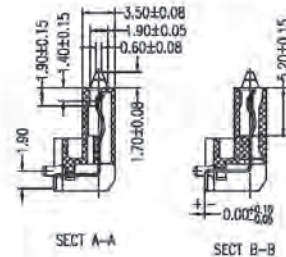
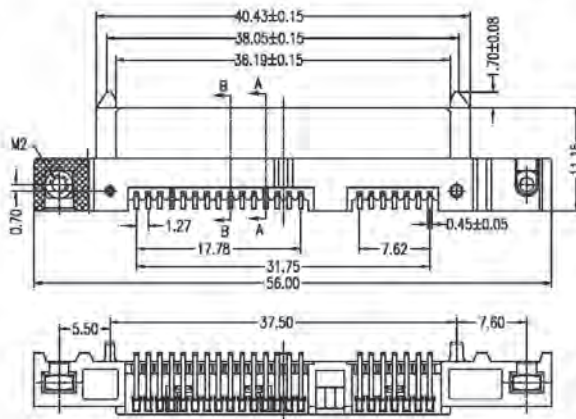
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C. Board Layout  
Top View



Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V33	P8	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		



## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{V4}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"V4" SMT TYPE (6.6)
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## SPECIFICATIONS

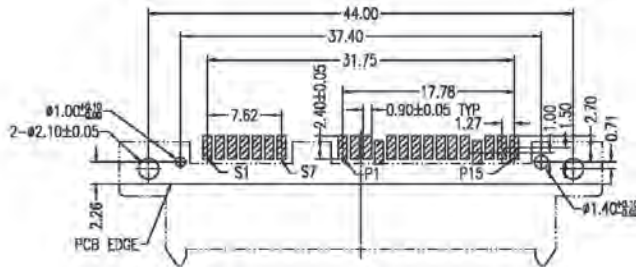
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

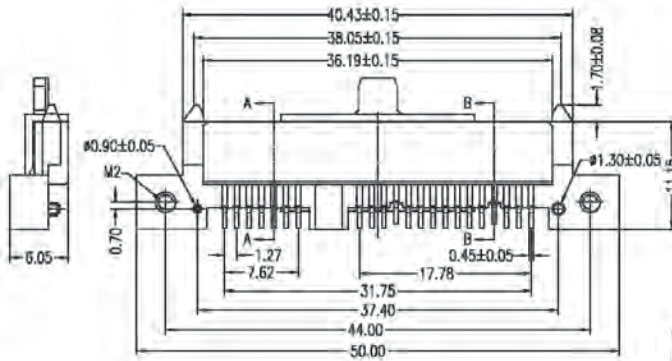
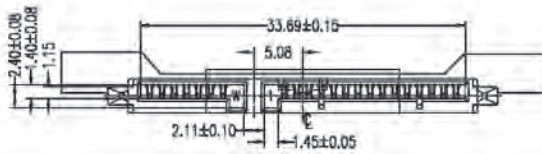
- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

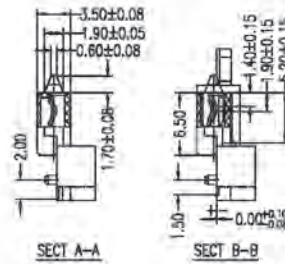
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT SMT TYPE



**Recommended P.C. Board Layout  
Component Side (T=1.20mm)**



Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V33	P9	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

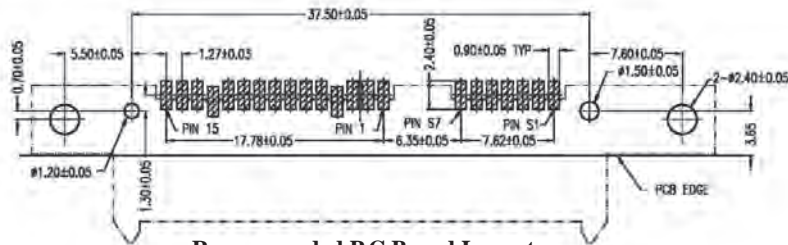
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

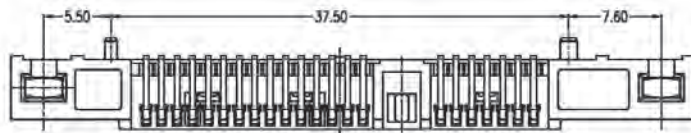
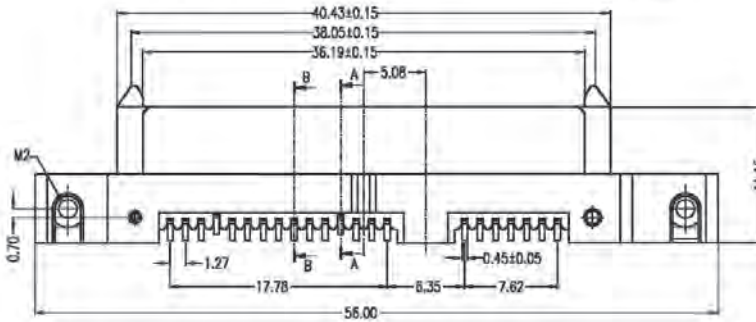
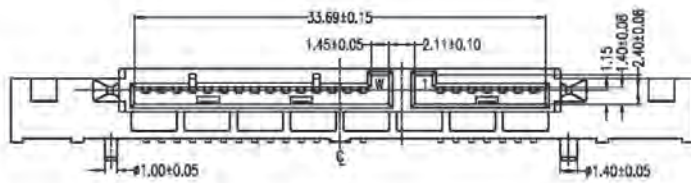
P/N S A T A  $\frac{22}{1}$  -  $\frac{V5}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"V5" REVERSE SUBSIDE SMT TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C. Board Layout  
Top View (T=1.60mm)



### SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

### MATERIALS

Housing: LCP, UL94V-0

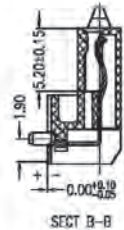
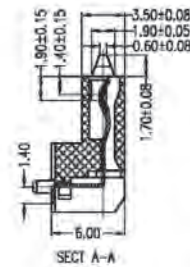
Contact: Phosphor Bronze

Plating: Gold Plating over Nickel on

Contact Area; Tin Plating on

Solder Tail

\*RoHS & REACH compliant.

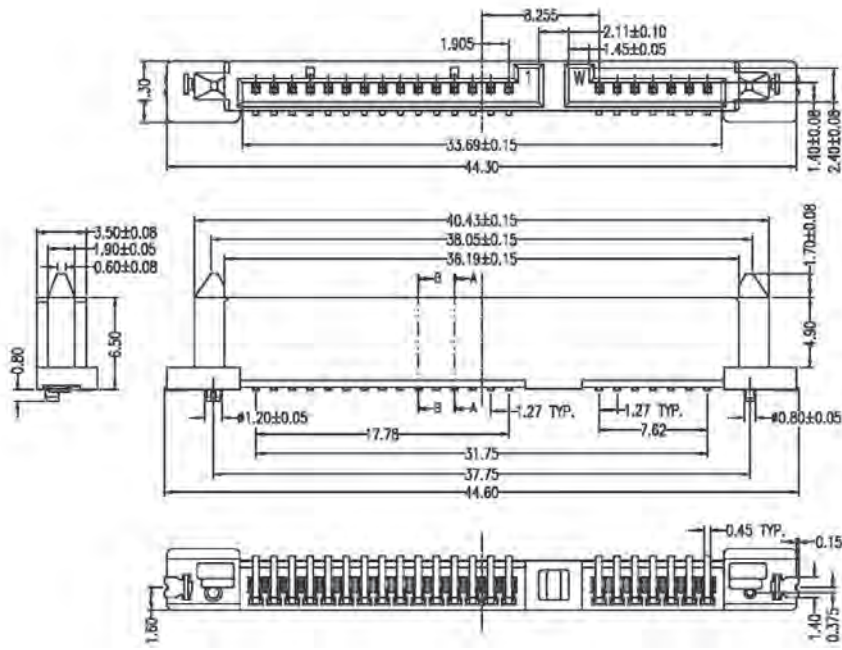
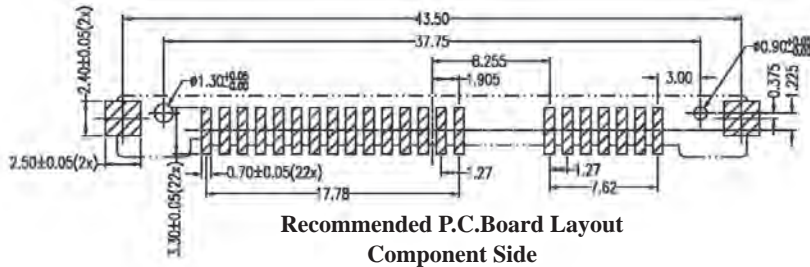


### ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{V6}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"V6" LENGTHEN SMT TYPE (6.50)
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT SMT TYPE



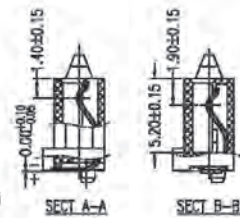
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.



Pin No.	Signal Name	Pin No.	Power Name	Pin No.	Power Name
1	GND	11	V33	20	VS
2	A+	12	V33	21	GND
3	A-	13	V33	22	DAS/DSS
4	GND	14	GND	23	GND
5	B+	15	GND	24	V12
6	B-	16	VS	25	V12
7	GND	17	VS	26	V12
		18	VS		

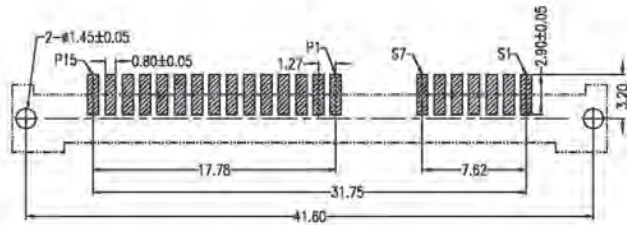
## ORDERING INFORMATION:

**P/N S A T A  $\frac{22}{1}$  -  $\frac{V7}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$**

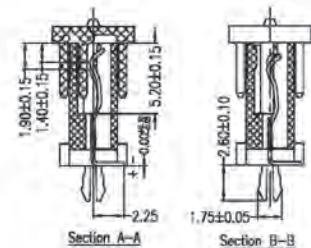
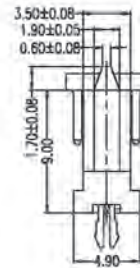
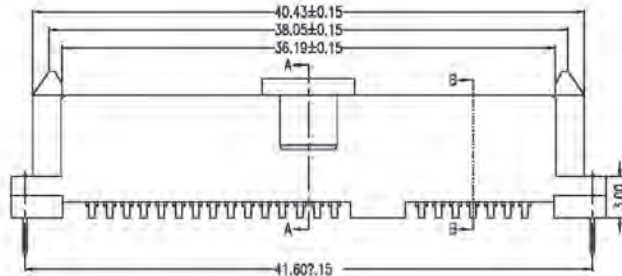
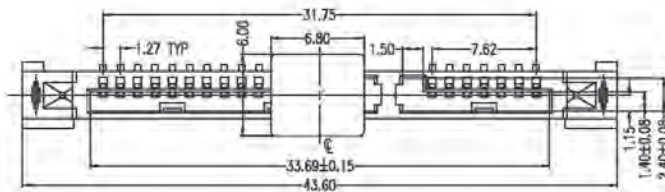
- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"V7" VERTICAL SMT TYPE (6.50)
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD



# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT SMT TYPE



Recommended P.C. Board Layout  
Top View



## SPECIFICATIONS

Current Rating: 1.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 500V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -55°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

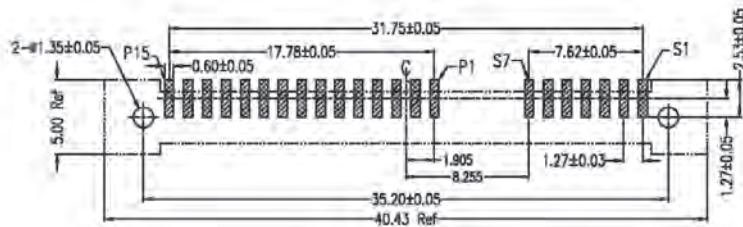
Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GN0	P1	V33	P9	VS
S2	A+	P2	V33	P10	GN0
S3	A-	P3	V33	P11	GN0/VS
S4	GN0	P4	GN0	P12	GN0
S5	B-	P5	GN0	P13	VI2
S6	B+	P6	GN0	P14	VI2
S7	GN0	P7	V5	P15	VI4
		P8	V5		

## ORDERING INFORMATION:

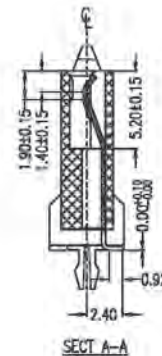
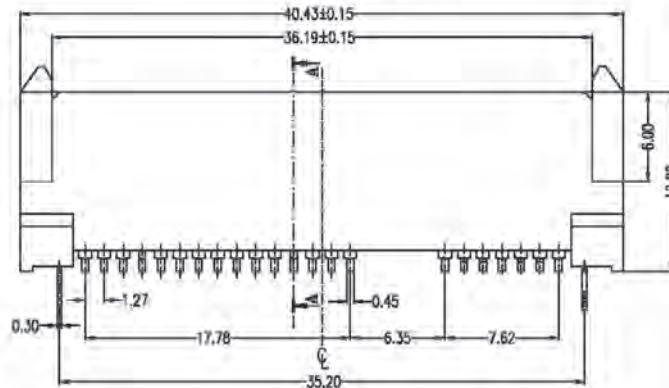
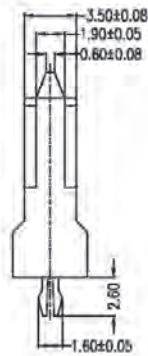
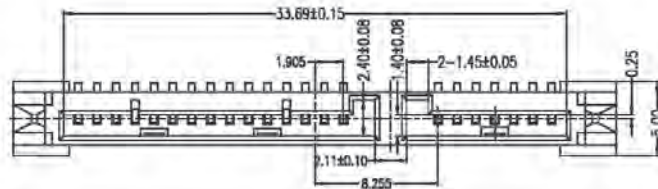
P/N S A T A  $\frac{22}{1}$  -  $\frac{V8}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"V8" VERTICAL SMT TYPE WITH MULTIFUNCTION
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C. Board Layout  
Top View (T=1.60mm)



### SPECIFICATIONS

Current Rating: 1.5 Amperes  
Insulation Resistance: 1000MΩ Min  
Dielectric Withstanding: 500V AC  
Contact Resistance: 30mΩ Max.  
Operating Temperature: -55°C to +125°C

### MATERIALS

Housing: LCP, UL94V-0  
Contact: Phosphor Bronze  
Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

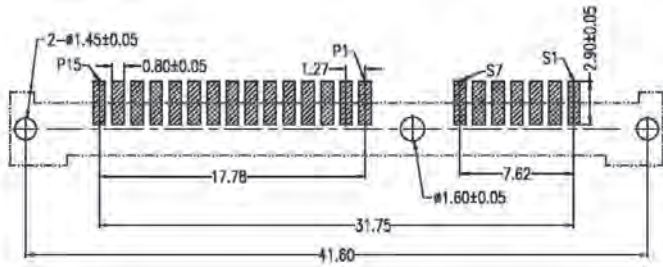
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

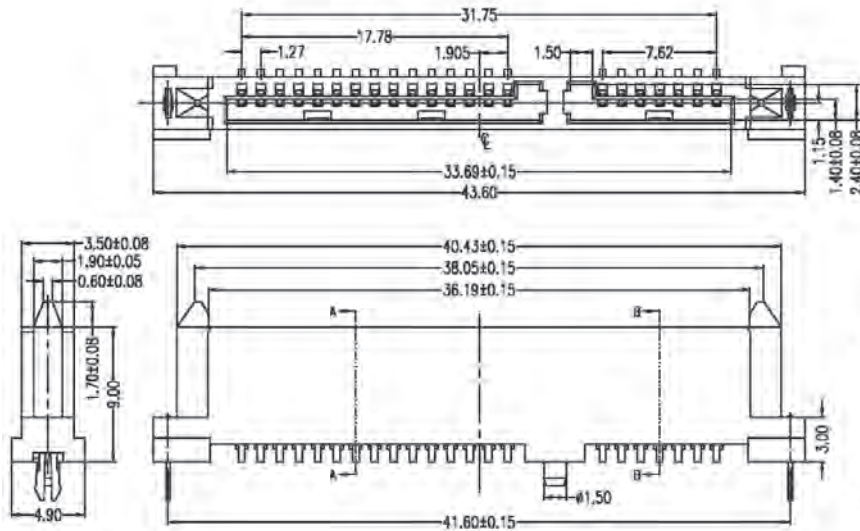
P/N S A T A  $\frac{22}{1}$  -  $\frac{V9}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"V9" SMT TYPE (12.0)
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT SMT TYPE



**Recommended P.C.Board Layout  
Top View**



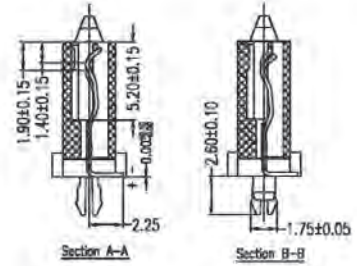
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



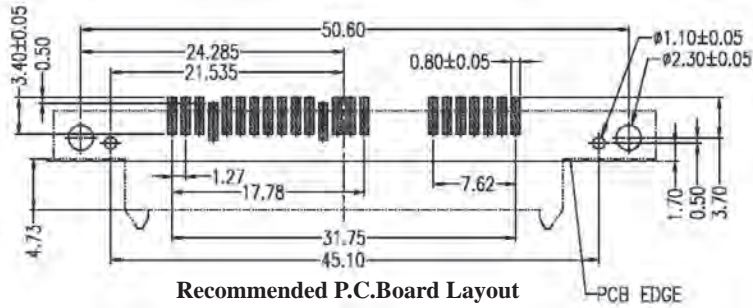
Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V33	P9	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		

## ORDERING INFORMATION:

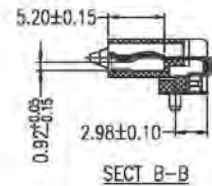
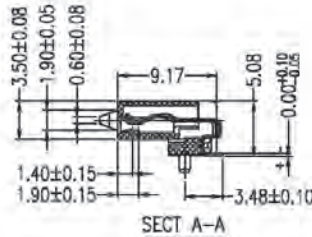
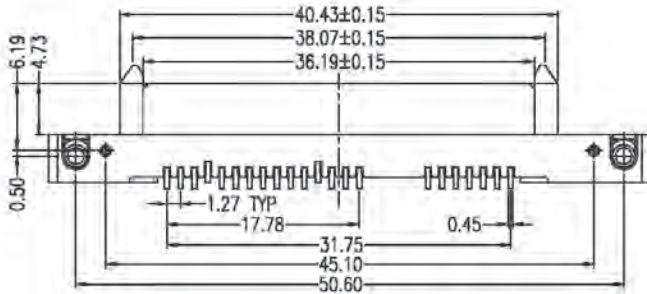
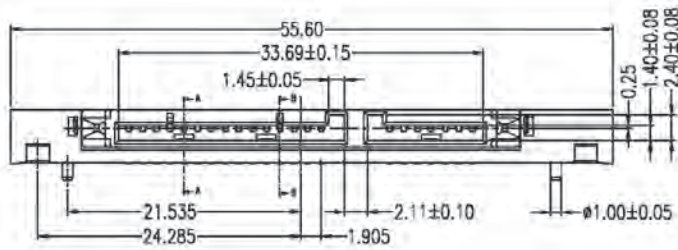
**P/N S A T A  $\frac{22}{1}$  -  $\frac{W1}{2}$   $\frac{FB}{34}$   $\frac{X X}{5}$**

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"W1" MULTIFUNCTION & WITH POSTS
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Top View (T=1.20mm)



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

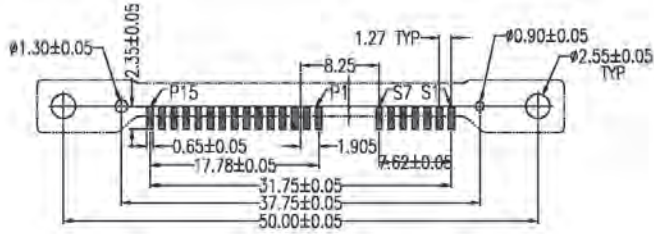
Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V33	P9	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		

## ORDERING INFORMATION:

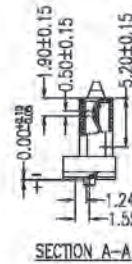
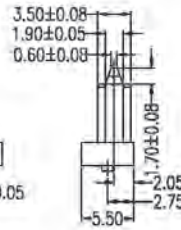
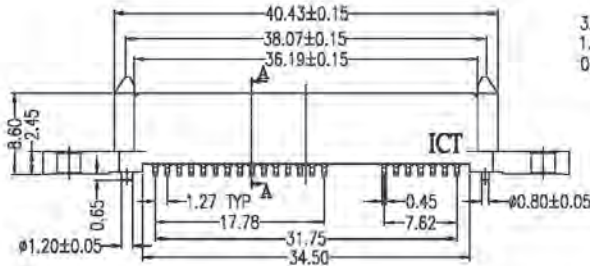
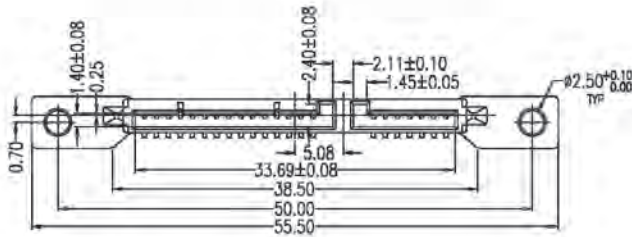
P/N S A T A  $\frac{22}{1}$  -  $\frac{W2}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"W2" NONE VIBRATION SMT TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRAIGHT SMT TYPE



**Recommended P.C. Board Layout  
Component Side**



Signal Segment	
Name	Type
S1	GND
S2	A+
S3	A-
S4	GND
S5	B+
S6	B-
S7	GND

Power Segment	
Name	Type
P1	V+3
P2	V+3
P3	V+3
P4	GND
P5	GND
P6	GND
P7	V5
P8	V5
P9	V5
P10	GND
P11	DNS/DSS
P12	GND
P13	V12
P14	V12
P15	V12



## SPECIFICATIONS

- Current Rating:** 1.5 Amperes
- Insulation Resistance:** 1000MΩ Min
- Dielectric Withstanding:** 500V AC
- Contact Resistance:** 30mΩ Max.
- Operating Temperature:** -55°C to +85°C

## MATERIALS

- Housing:** LCP, UL94V-0
- Contact:** Phosphor Bronze
- Plating:** Sn Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder Tail; Ni (40u" Min.) Underplating overall

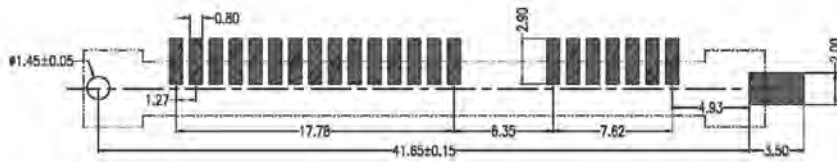
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

**P/N S A T A  $\frac{22}{1}$  -  $\frac{W3}{2}$   $\frac{FB}{34}$   $\frac{X X}{5}$**

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"W3" VERTICAL SMT TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR SMT TYPE FOR RISER CARD



Recommended P.C. Board Layout  
Top View

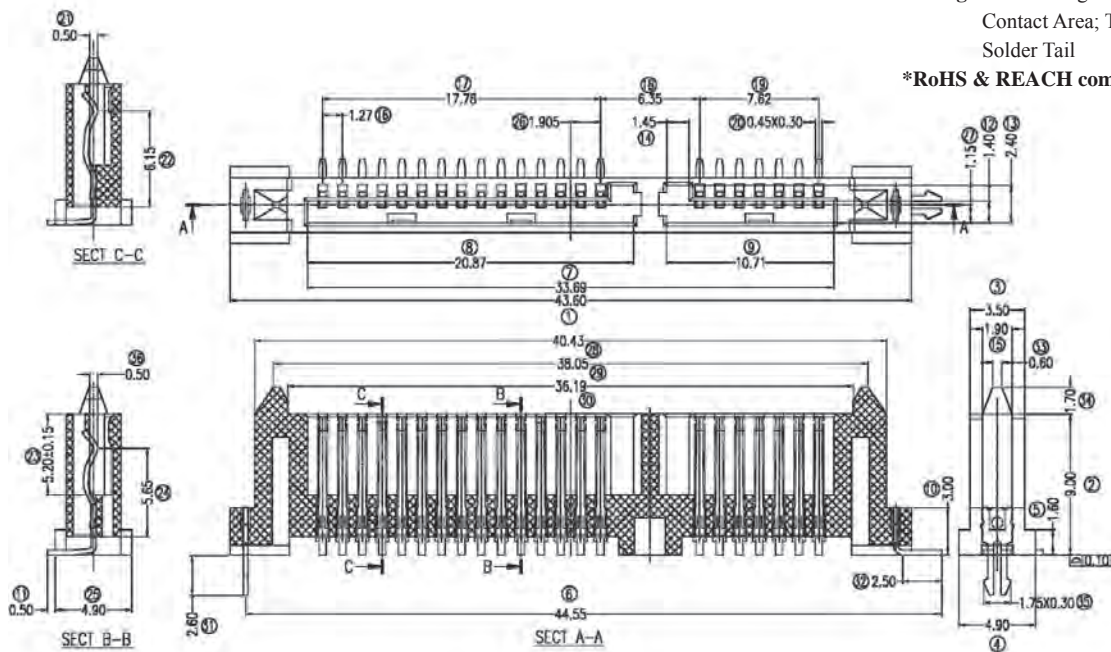
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

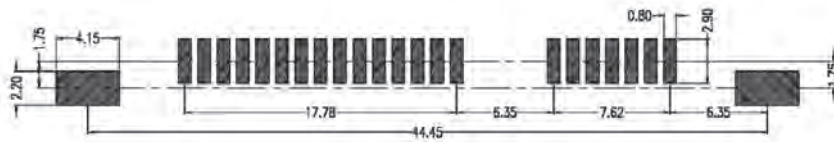


## ORDERING INFORMATION:

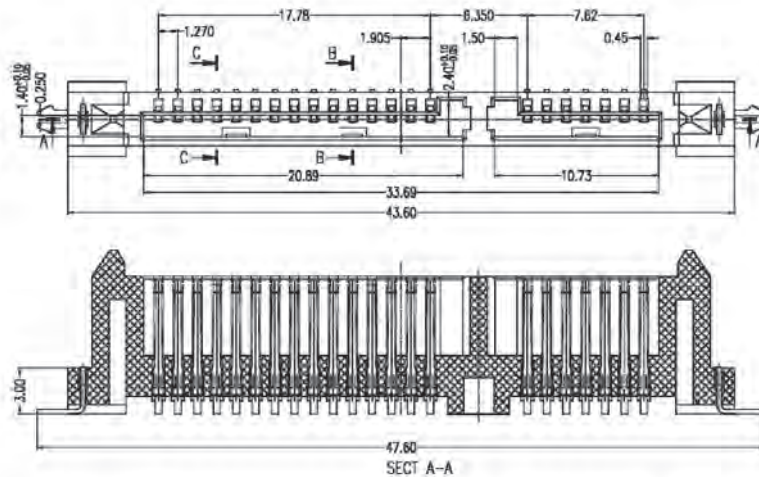
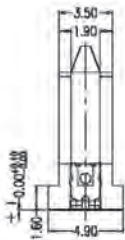
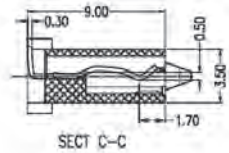
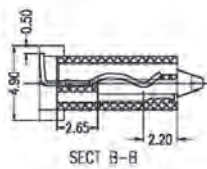
P/N S A T A  $\frac{22}{1}$  -  $\frac{W5}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"W5" 7P WITH SMT POSTS & 15P WITH DIP POST
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

## SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout



### SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +125°C

### MATERIALS

**Housing:** LCP, UL94V-0

**Contact:** Phosphor Bronze

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

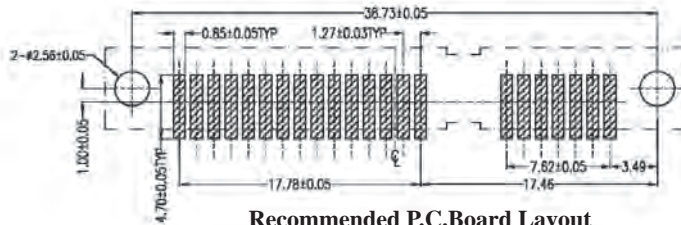
\*RoHS & REACH compliant.

### ORDERING INFORMATION:

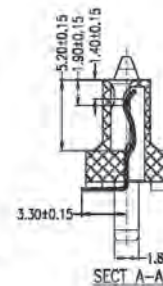
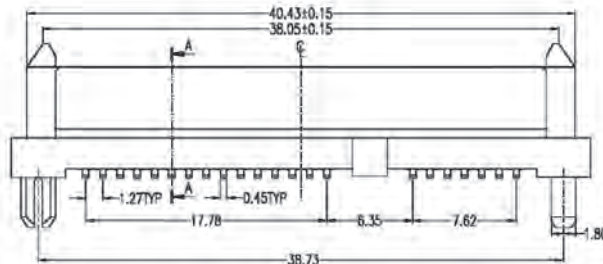
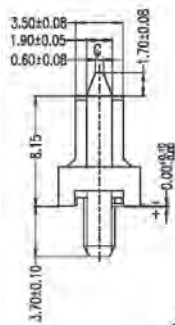
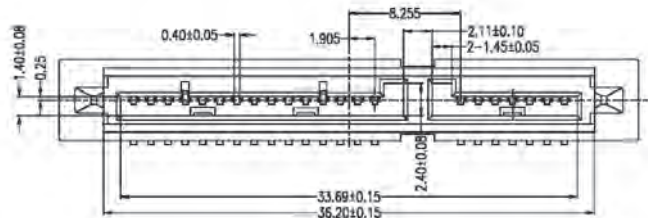
P/N S A T A  $\frac{22}{1}$  -  $\frac{W6}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"W6" SMT TYPE WITH SMT POSTS
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"15" 15 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C.Board Layout  
Top View



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

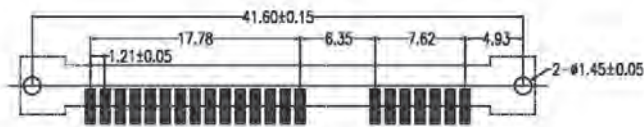
## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{W7}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

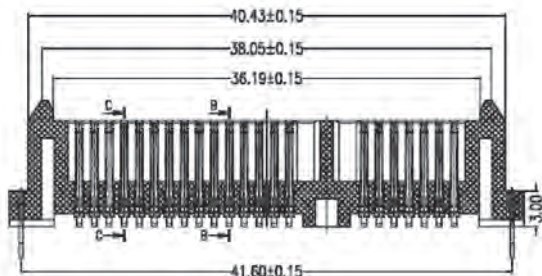
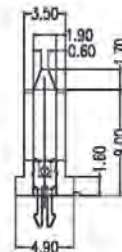
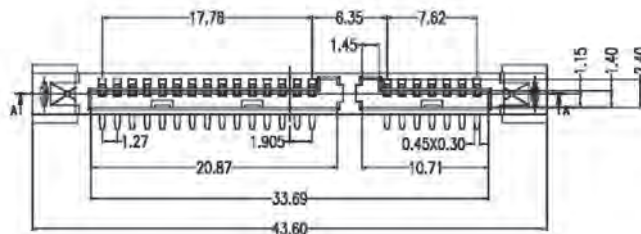
- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"W7" REVERSE SMT TYPE (3.30)
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD



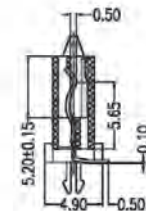
# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT SMT TYPE



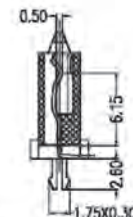
Recommended P.C.Board Layout  
Top View



SECT A-A



SECT B-B



SECT C-C

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

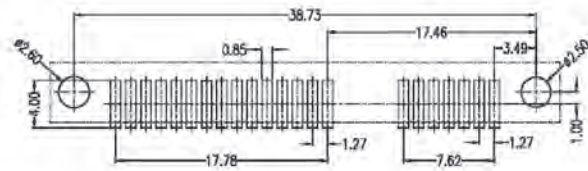
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

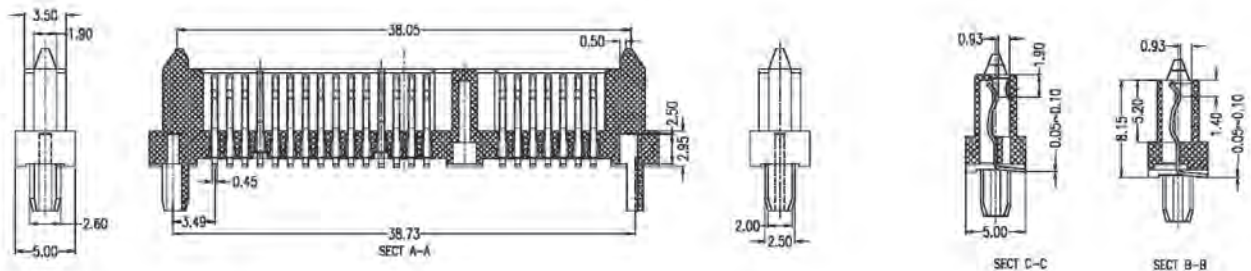
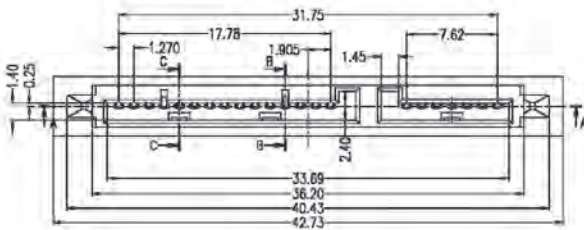
P/N S A T A  $\frac{22}{1}$  -  $\frac{W8}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"W8" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR REVERSE MOUNT SMT TYPE WITH PLASTIC POSTS



Recommended P.C.Board Layout



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes

**Insulation Resistance:** 1000MΩ Min

**Dielectric Withstanding:** 500V AC

**Contact Resistance:** 30mΩ Max.

**Operating Temperature:** -55°C to +125°C

## MATERIALS

**Housing:** LCP, UL94V-0

**Contact:** Phosphor Bronze

**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

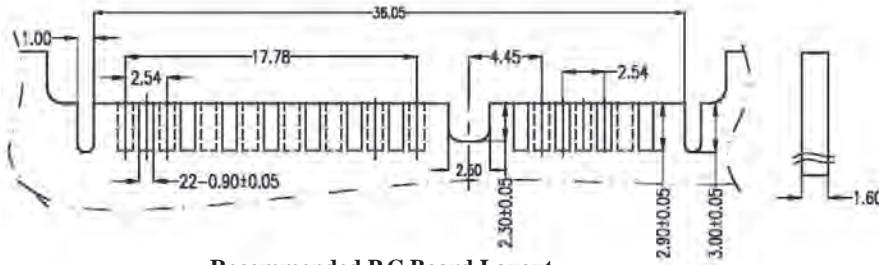
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

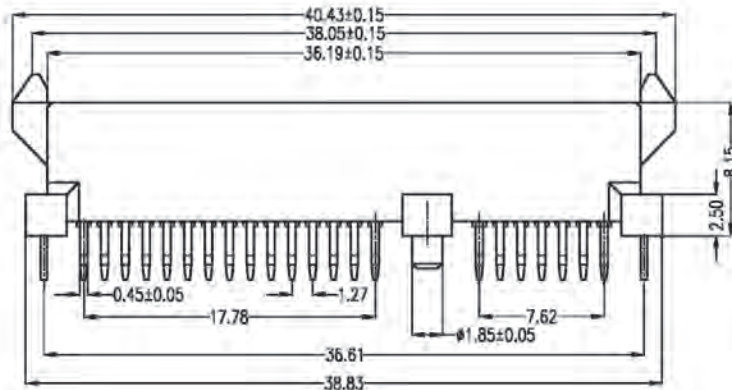
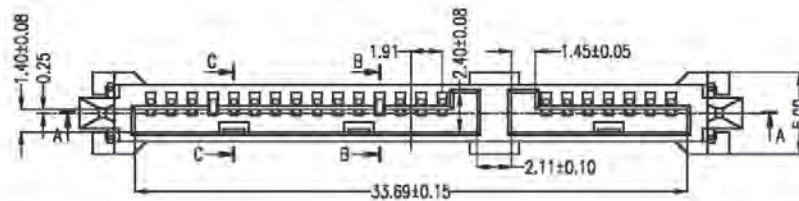
P/N S A T A  $\frac{22}{1}$  -  $\frac{W9}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"W9" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRADDLE TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)



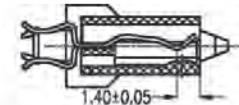
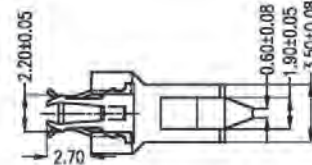
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

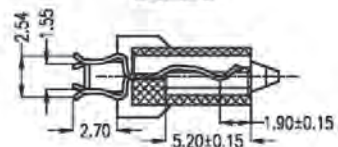
## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



SECT B-B



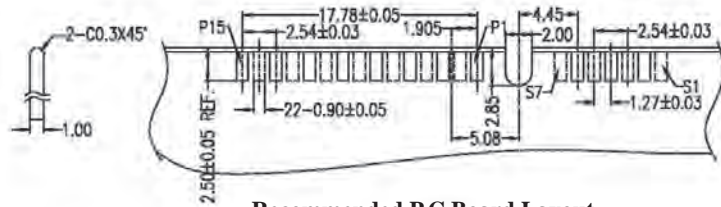
SECT C-C

## ORDERING INFORMATION:

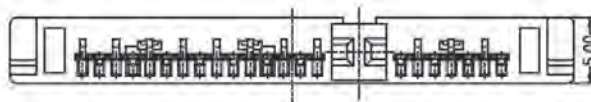
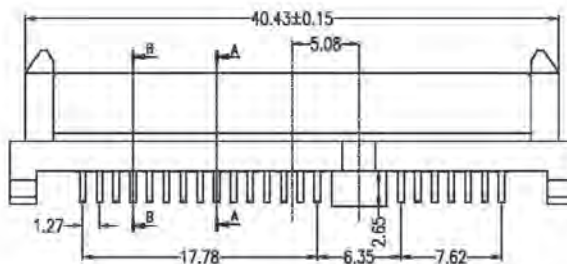
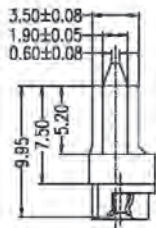
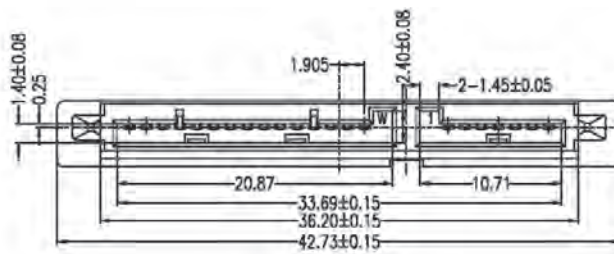
P/N S A T A  $\frac{22}{1}$  -  $\frac{X1}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"X1" DOUBLE ROW STRADDLE TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRADDLE TYPE



Recommended P.C.Board Layout  
Top View (T=1.00mm)



## SPECIFICATIONS

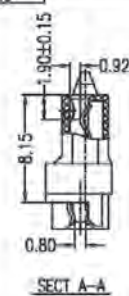
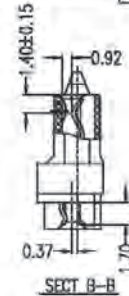
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder Tail; Nickel (40u" Min.) Underplating overall

\*RoHS & REACH compliant.

Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V33	P8	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		

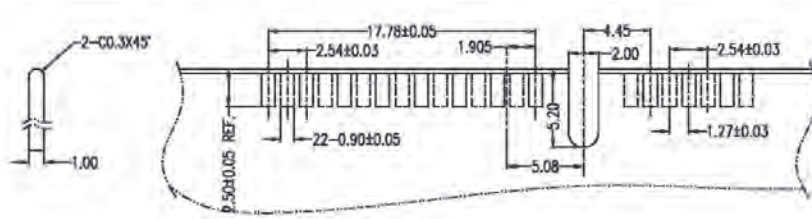


## ORDERING INFORMATION:

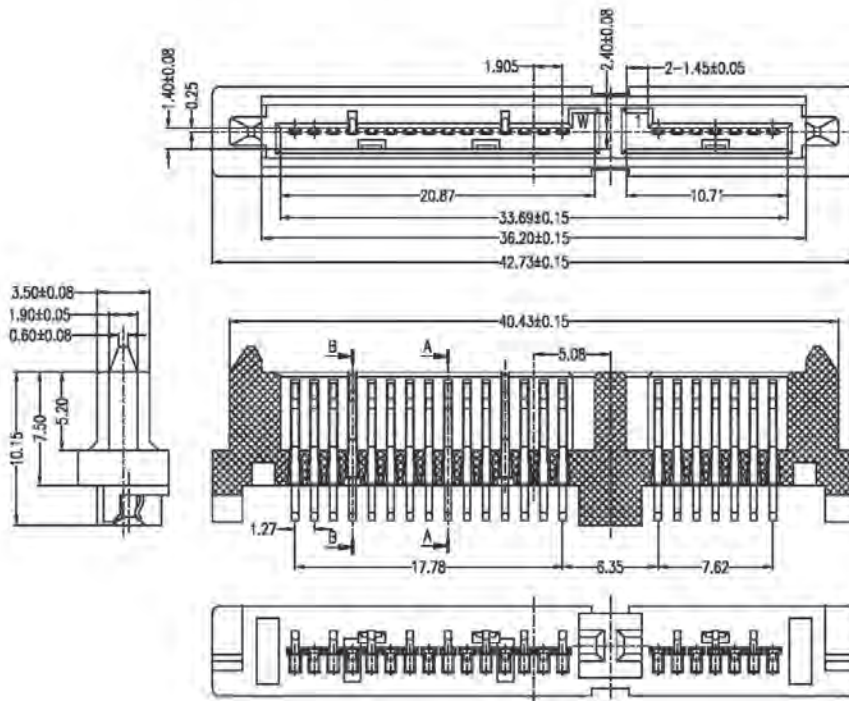
P/N S A T A  $\frac{22}{1}$  -  $\frac{X2}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"22" 7P+15P
- CONNECTOR CODE:  
"X2" DOUBLE ROW STRADDLE TYPE (5.00)
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD

## SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRADDLE TYPE



Recommended P.C.Board Layout  
Top View



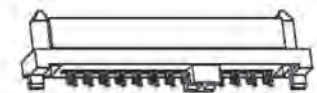
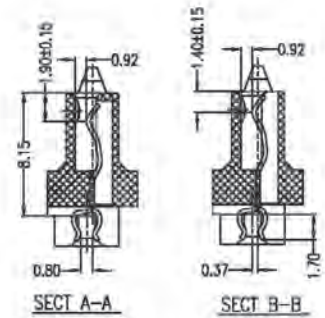
### SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -55°C to +85°C

### MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

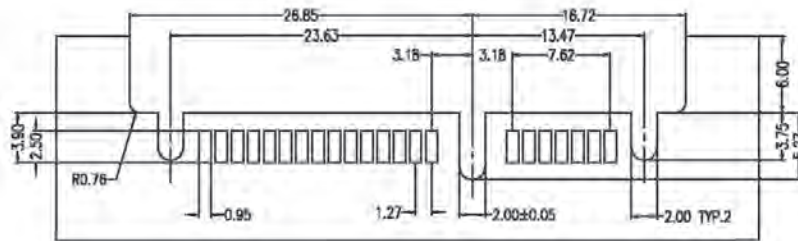


### ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{X3}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"X3" DOUBLE ROW STRADDLE TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD

# SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR UNDER BOARD STRADDLE TYPE



Recommended P.C.Board Layout  
(T=1.60mm)

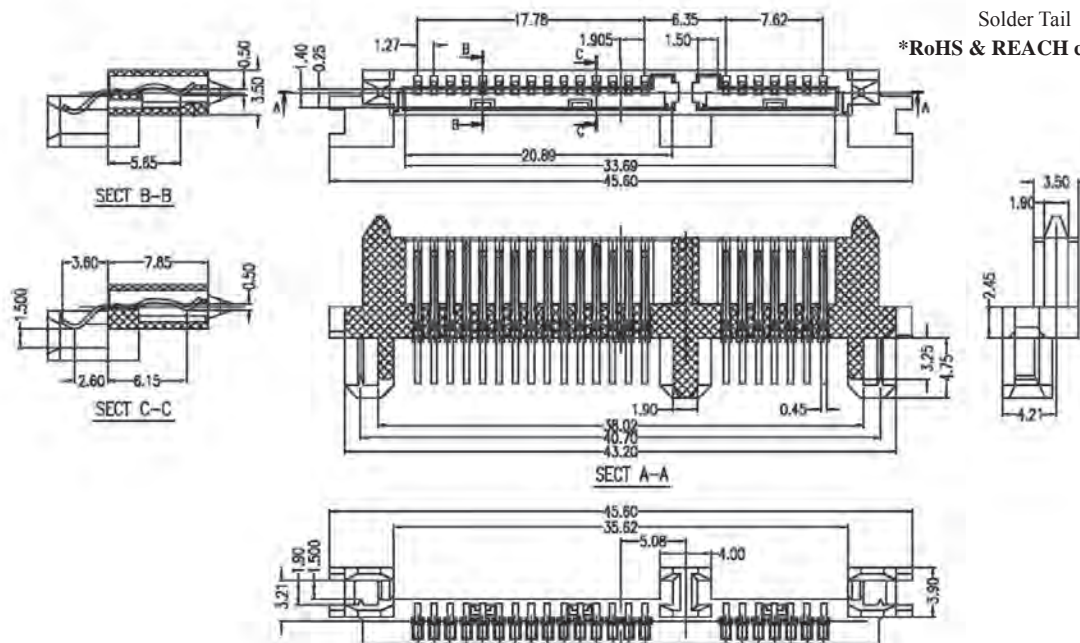
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +125°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

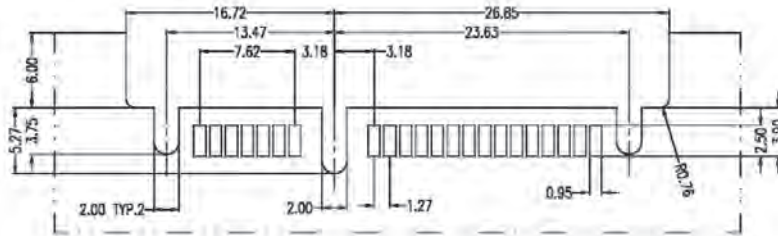


## ORDERING INFORMATION:

P/N S A T A  $\frac{22}{1}$  -  $\frac{X4}{2}$   $\frac{FB}{34}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"X4" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

## SERIAL ATA (SATA) 7+15 PIN FEMALE CONNECTOR STRADDLE TYPE



Recommended P.C. Board Layout  
(T=1.00mm)

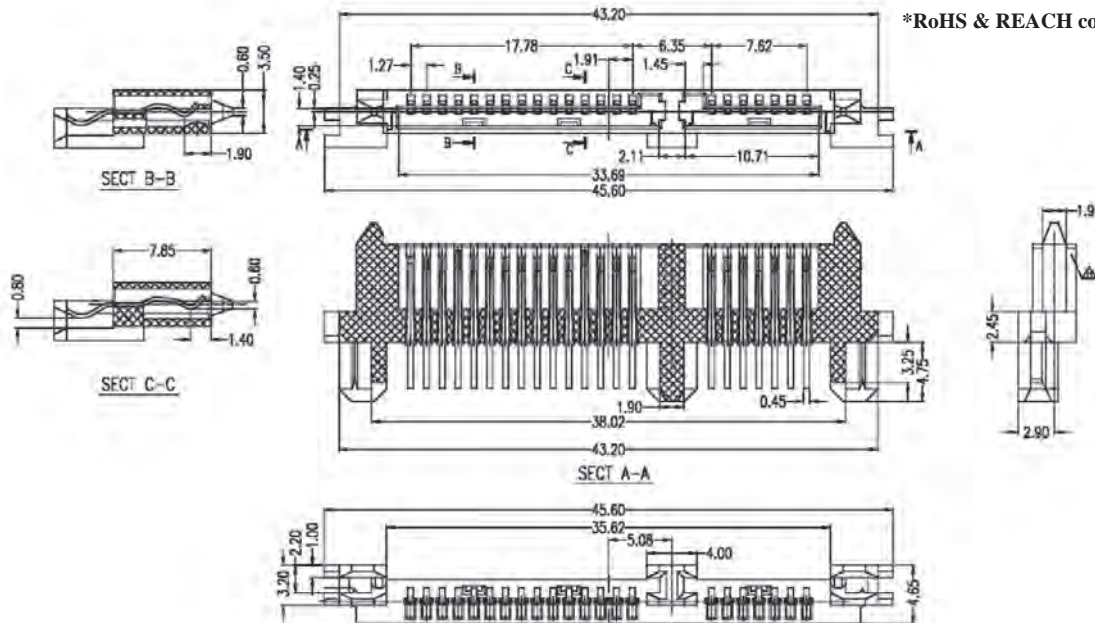
### SPECIFICATIONS

Current Rating: 1.5 Amperes  
 Insulation Resistance: 1000MΩ Min  
 Dielectric Withstanding: 500V AC  
 Contact Resistance: 30mΩ Max.  
 Operating Temperature: -55°C to +125°C

### MATERIALS

Housing: LCP, UL94V-0  
 Contact: Phosphor Bronze  
 Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

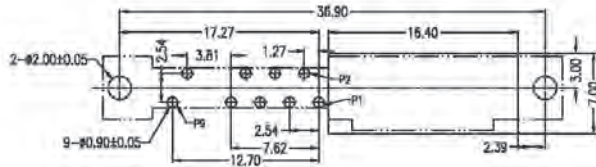


### ORDERING INFORMATION:

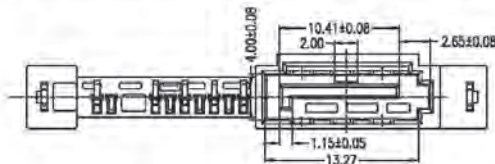
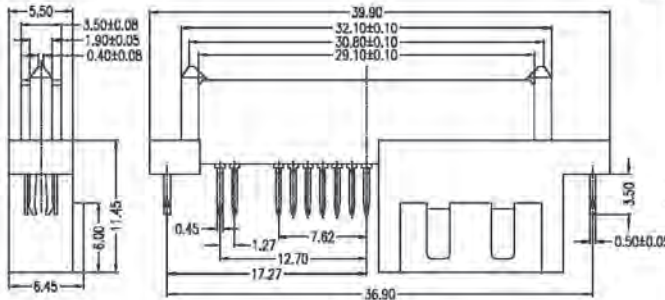
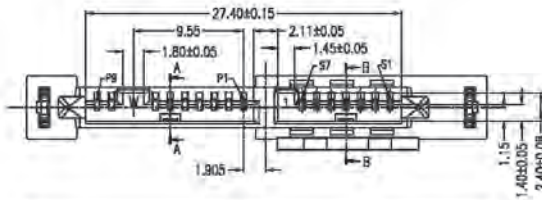
P/N S A T A  $\frac{22}{1}$  -  $\frac{X5}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"22" 7P+15P
2. CONNECTOR CODE:  
"X5" SATA FOR RISER CARD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# MICRO SATA 7+9+7 PIN FEMALE+MALE CONNECTOR STRAIGHT DIP TYPE

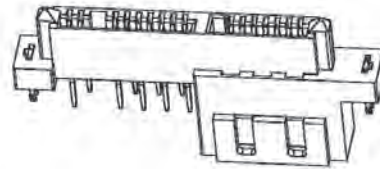
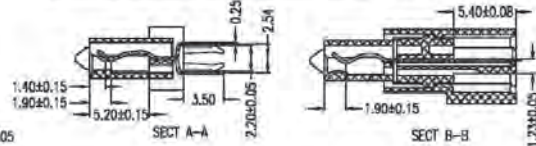


Recommended P.C.Board Layout  
Top View (T=3.00mm)



Pin Number	Power Designation	Pin Number	Power Designation
P1	+3.3V	P6	+5V
P2	+3.3V	P7	Reserved
P3	GND	P8	Optional
P4	GND	P9	Optional
P5	+5V		

Pin Number	Signal Name	Description
S1	GND	
S2	A+	Differential Signal
S3	A-	Differential Signal
S4	GND	
S5	B-	Differential Signal
S6	B+	Differential Signal
S7	GND	



## ORDERING INFORMATION:

P/N S A T A  $\frac{23}{1}$  -  $\frac{H1}{2}$   $\frac{D}{3}$   $\frac{B}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"23" 7P+9P+7P
2. CONNECTOR CODE:  
"H1" 7P+9P FEMALE & 7P MALE
3. CONTACT TYPE:  
"D" FEMALE+MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

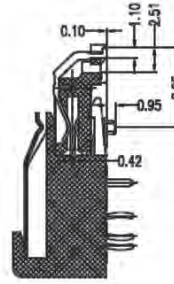
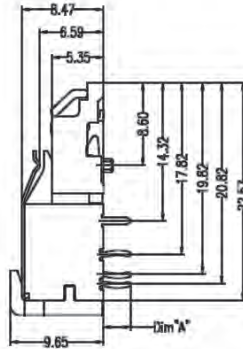
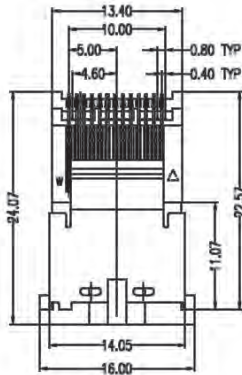
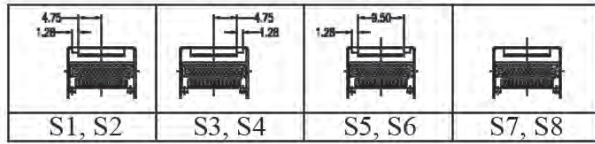
## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

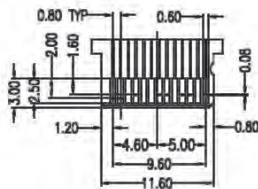
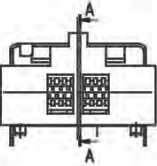
\*RoHS & REACH compliant.



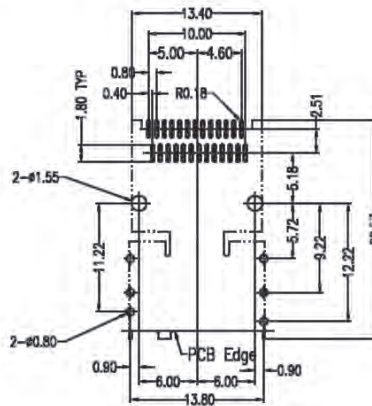
# MINI SAS 26 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



SECTION-A-A



Mating Interface Layout



Recommended P.C.Board Layout  
Component Side (T=1.60mm)

## SPECIFICATIONS

Current Rating: 0.5 Amperes  
 Insulation Resistance: 1000MΩ Min  
 Dielectric Withstanding: 300V AC  
 Contact Resistance: 30mΩ Max.  
 Operating Temperature: -40°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0  
 Contact: Phosphor Bronze  
 Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail  
 \*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N S A T A  $\frac{26}{1}$  -  $\frac{xx}{2}$  F B  $\frac{xx}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"26" 26P

2. CONNECTOR CODE:

- "S1" LEFT KEY & SHORT POST
- "S2" LEFT KEY & LONG POST
- "S3" RIGHT KEY & SHORT POST
- "S4" RIGHT KEY & LONG POST
- "S5" DOUBLE KEY & SHORT POST
- "S6" DOUBLE KEY & LONG POST
- "S7" NON-KEYED & SHORT POST
- "S8" NON-KEYED & LONG POST

3. CONTACT TYPE:

"F" FEMALE

4. INSULATOR COLOR:

"B" BLACK

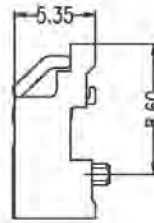
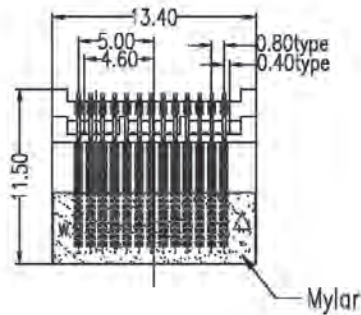
5. CONTACT FINISH:

"01" GOLD FLASH

"15" 15 MICRINCH GOLD

"30" 30 MICRINCH GOLD

## MINI SAS 26 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE W/O SHELL



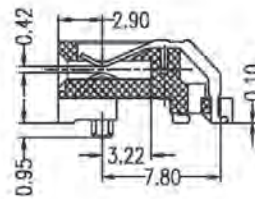
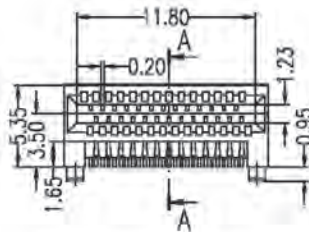
### SPECIFICATIONS

**Current Rating:** 0.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 300V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -40°C to +85°C

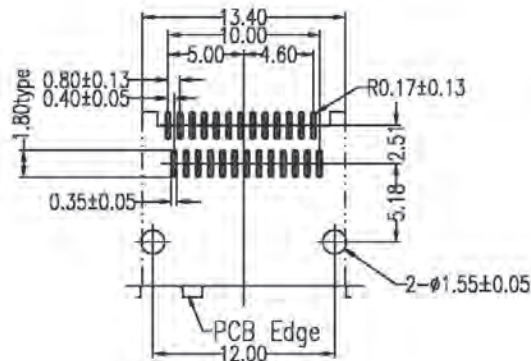
### MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

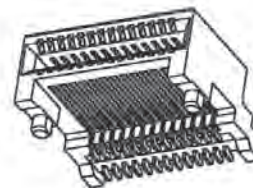
\*RoHS & REACH compliant.



SECTION: A-A



Recommended P.C.Board Layout  
Top View (T=1.60mm)

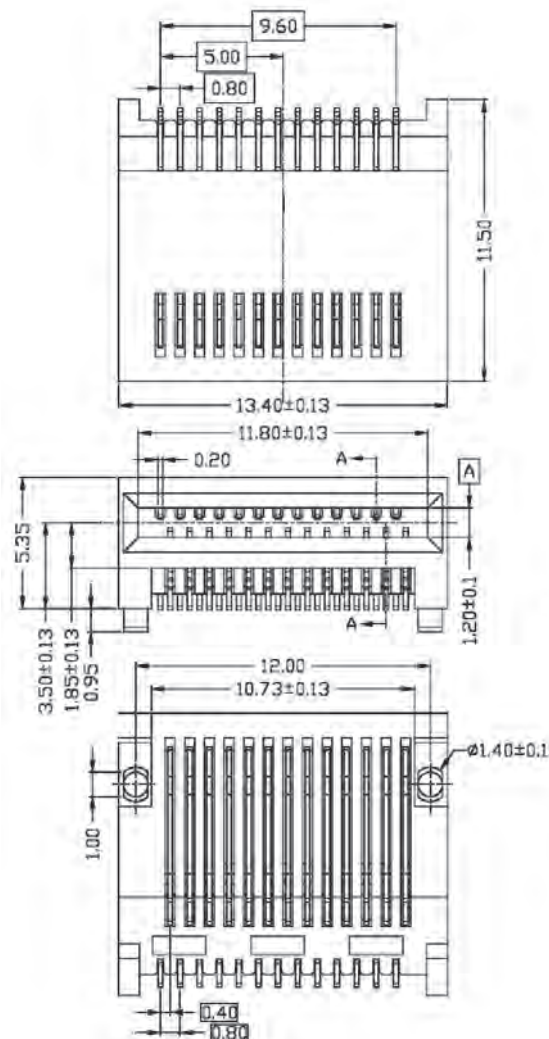


### ORDERING INFORMATION:

P/N S A T A 2 6 - T 5 F B x x  
I 2 3 4 5

1. NO. OF CONTACTS:  
"26" 26P
2. CONNECTOR CODE:  
"T5" ONE CONNECTOR TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## MINI SAS 26 PIN FEMALE CONNECTOR EXTERNAL SMT TYPE



### SPECIFICATIONS

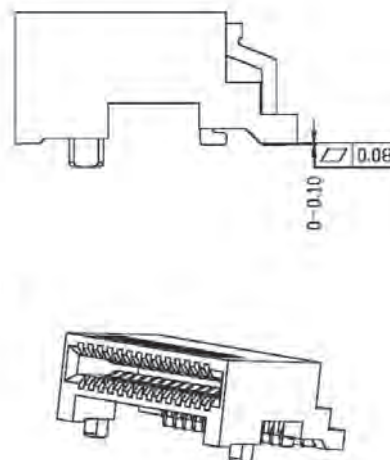
Current: 0.5A/Contact

Voltage: 30VAC/Contact

Low Level Contact Resistance: 80 mohm

Operating Temperature: -20°C to +55°C

\*RoHS & REACH compliant.

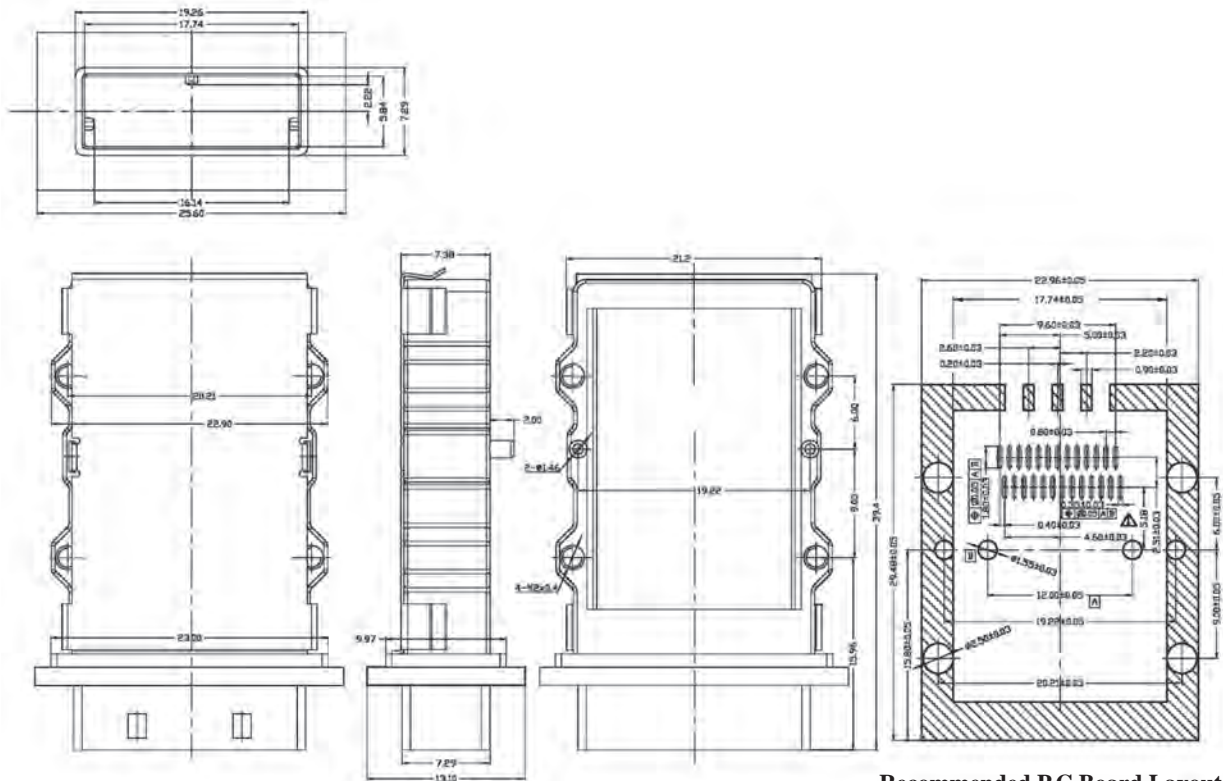


### ORDERING INFORMATION:

P/N S A T A  $\frac{26}{1}$  -  $\frac{T6}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"26" 26P
2. CONNECTOR CODE:  
"T6" USED WITH HOOD SATA26-T6HOOD
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# HOOD FOR MINI SAS 26 PIN FEMALE CONNECTOR SMT TYPE



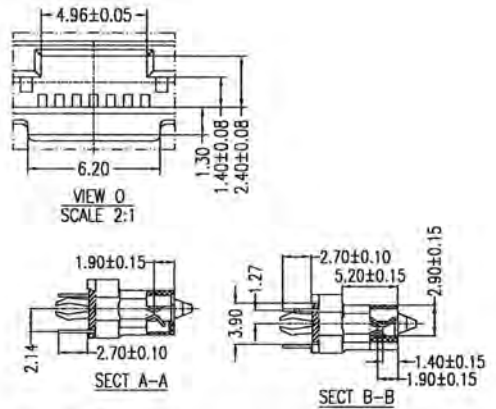
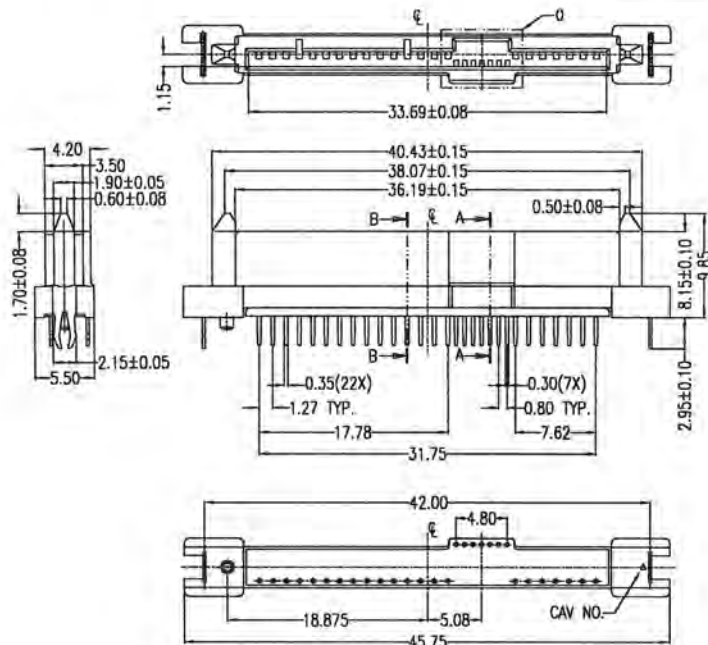
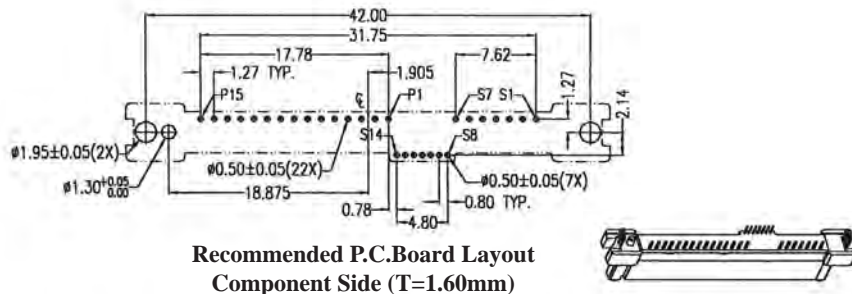
Recommended P.C.Board Layout

## ORDERING INFORMATION:

**P/N SATA26-T6HOOD**

SMT TYPE HOOD FOR  
P/N SATA26-T6FBxx

# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

Power Segment			
Pin No.	Type	Normal	Type
P1	VSS	P10	V5
P2	VSS	P10	V5
P3	VSS	P11	Needy Lead
P4	Ground	P12	
P5			
F			
PE	V5		

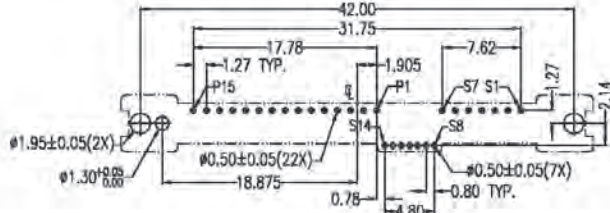
Signal Segment				
Pin No.	Type	Normal	Type	
S1	Signal	Ground	S6	Signal
S2	TP+	S9	TP+	
S3	TP-	S10	TP-	
S4	Signal	Ground	S11	Signal
S5	RS+	S12	RS+	
S6	RS+	S13	RS+	
S7	Signal	Ground	S14	Signal

## ORDERING INFORMATION:

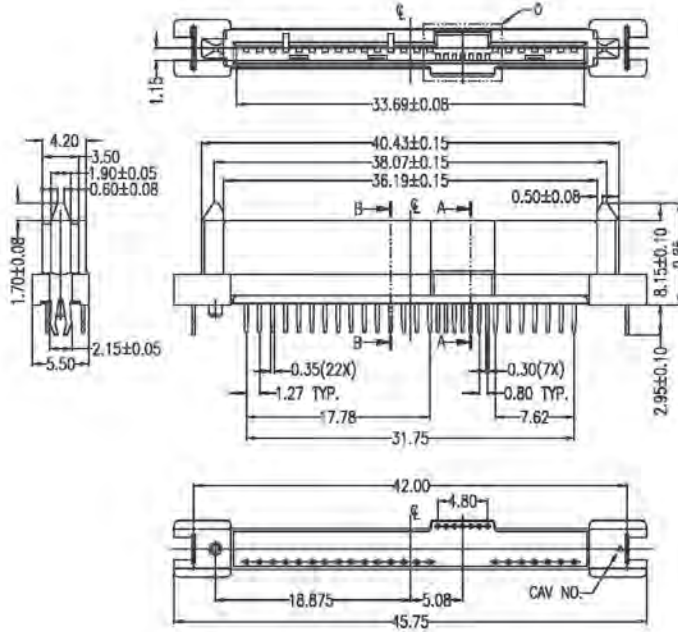
P/N S A T A  $\frac{29}{1}$  -  $\frac{H1}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"H1" STRAIGHT DIP TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=1.60mm)



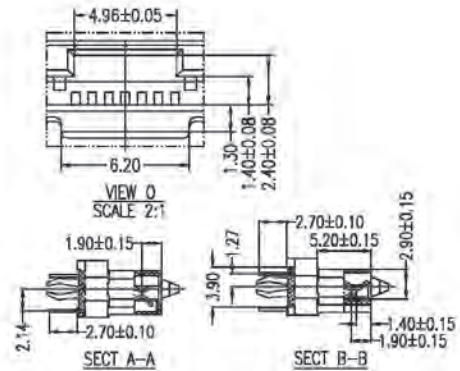
## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** 0°C to +55°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Au Plating on Contact Area;  
 Tin (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

\*RoHS & REACH compliant.



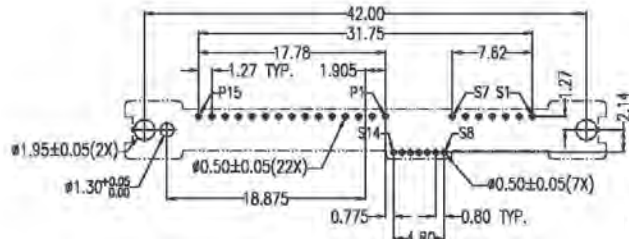
Power Segment				Signal Segment					
Pin No.	Type	Mount	Type	Pin No.	Type	Mount	Type		
P1	VSS	P0	VS	S1	Signal	Ground	S0	Signal	Ground
P2	VSS	P10	Ground	S2	Signal	Ground	S1	Signal	Ground
P3	VSS	P11	Signal	S3	Signal	Ground	S2	Signal	Ground
P4	Ground	P12	Ground	S4	Signal	Ground	S3	Signal	Ground
P5	Ground	P13	VTP	S5	Signal	Ground	S4	Signal	Ground
P6	Ground	P14	VTP	S6	Signal	Ground	S5	Signal	Ground
P7	VS	P15	VTP	S7	Signal	Ground	S6	Signal	Ground
P8	VS	P16	VTP	S8	Signal	Ground	S7	Signal	Ground

## ORDERING INFORMATION:

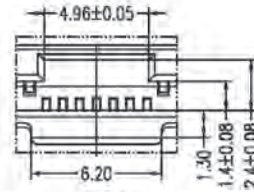
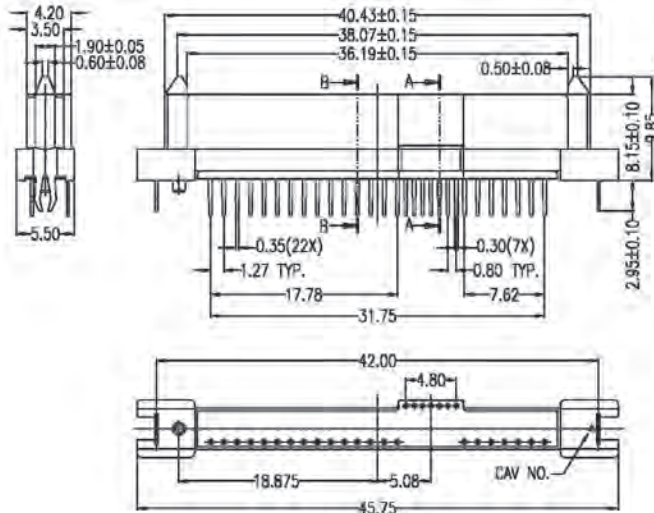
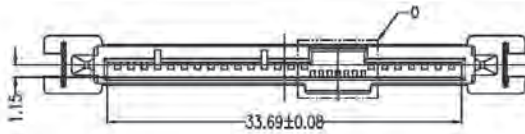
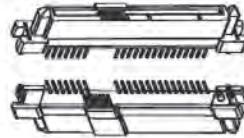
P/N S A T A  $\frac{29}{1}$  -  $\frac{H2}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"H2" STRAIGHT DIP TYPE WITH LOCK KEY
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

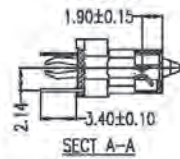
# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



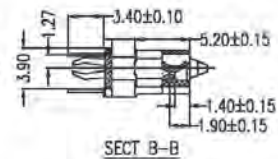
**Recommended P.C. Board Layout  
Component Side (T=1.60mm)**



VIEW O  
SCALE 2:1



SECT A-A



SECT B-B

Power Segment				Signal Segment			
Pin No	Type	Signal	Type	Pin No	Type	Signal	Type
P1	VSS	S9	V5	S1	Signal Ground	S6	Signal Ground
P2	VSS	P10	Ground	S2	P1	S8	SP
P3	VSS	P11	Signal Lead	S3	P2	S10	SP
P4	Ground	P12	Ground	S4	Signal Ground	S11	Signal Ground
P5	Ground	P13	V12	S5	SP	S12	SP
P6	Ground	P14	V12	S6	SP	S13	SP
P7	V5	P15	V12	S7	Signal Ground	S14	Signal Ground
P8	V5						

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area; Tin (100u" Min.) Plating on Solder Tail; Ni (40u" Min.) Underplating overall

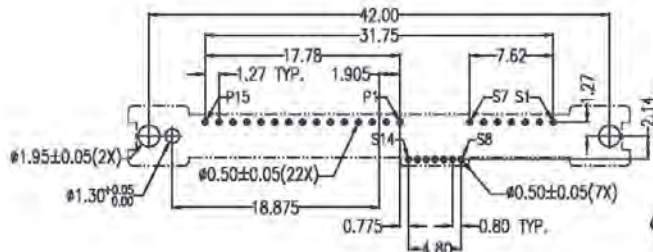
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

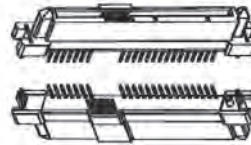
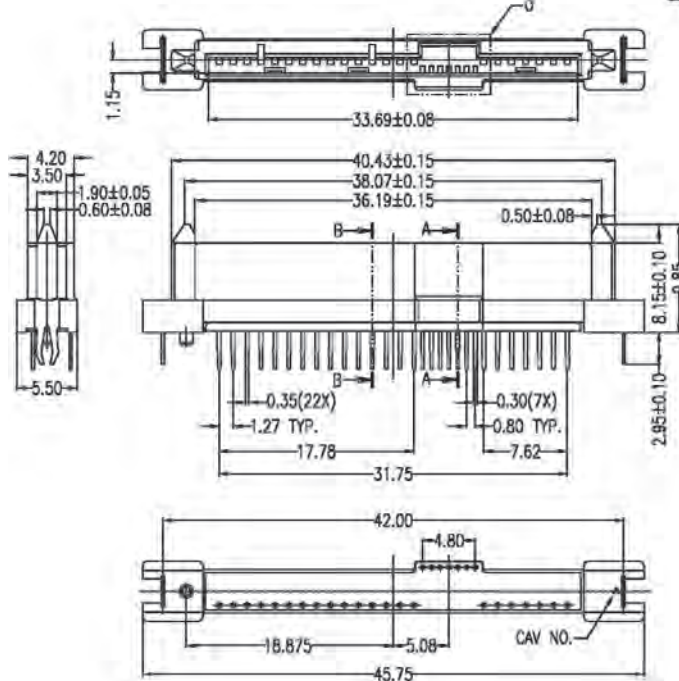
**P/N S A T A  $\frac{29}{1}$  -  $\frac{H3}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$**

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"H3" STRAIGHT DIP TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C.Board Layout  
Component Side (T=1.60mm)



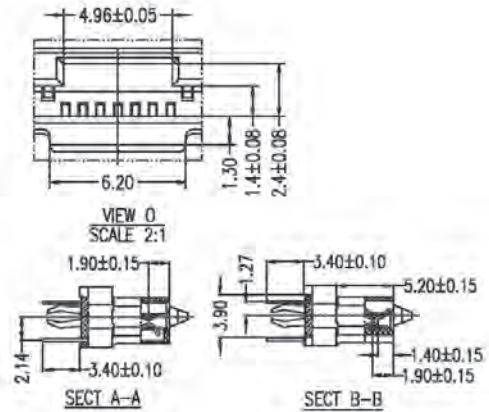
## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** 0°C to +55°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Au Plating on Contact Area;  
 Tin (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

\*RoHS & REACH compliant.



Pin No.	Type	Signal	Type
P1	VAS	P10	Ground
P2	VAS	P11	Ground
P3	VAS	P12	Ground
P4	Ground	P13	VTP
P5	Ground	P14	V14
P6	Ground	P15	V12
P7	V5		
P8	V5		

Pin No.	Type	Signal	Type
S1	Signal	S10	Ground
S2	Signal	S11	Ground
S3	Signal	S12	Ground
S4	Signal	S13	Ground
S5	Signal	S14	Ground
S6	Signal	S15	Ground
S7	Signal	S16	Ground

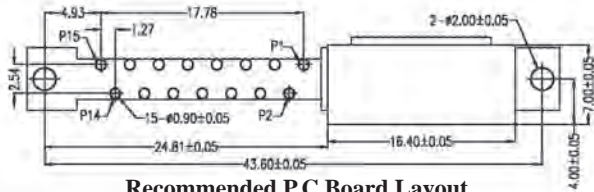
## ORDERING INFORMATION:

P/N S A T A  $\frac{29}{1}$  -  $\frac{H4}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

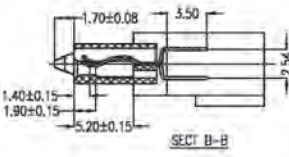
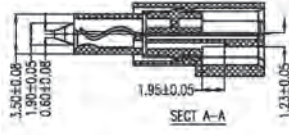
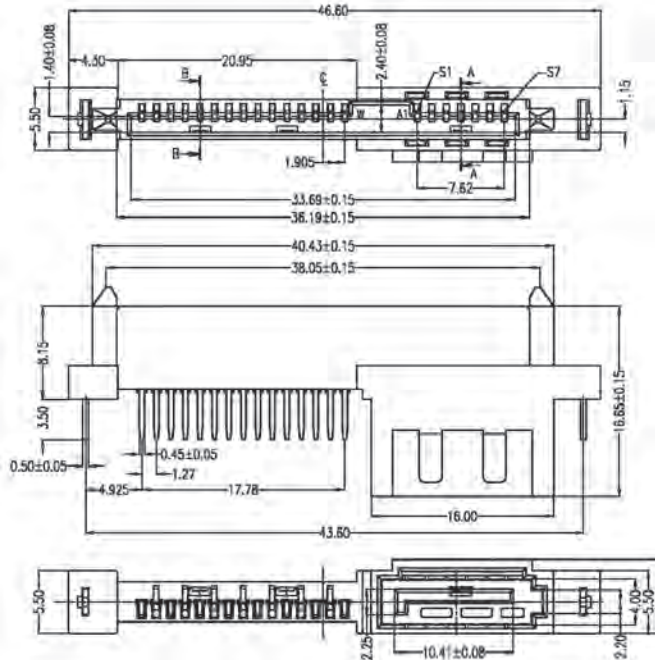
- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"H4" STRAIGHT DIP TYPE WITH LOCK KEY
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD



# SAS 7+15+7 PIN FEMALE+MALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C.Board Layout  
Top View (T=3.00mm)



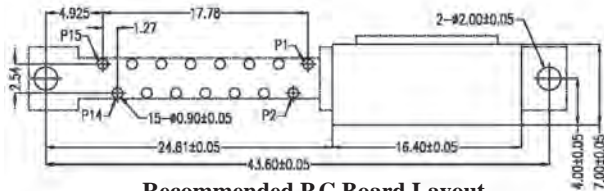
Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V33	P9	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DMS/DSS
S4	GND	P4	GND	P12	GND
S5	B-	P5	GND	P13	V12
S6	B+	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		

## ORDERING INFORMATION:

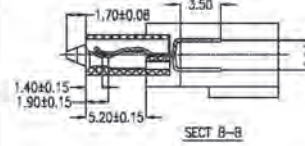
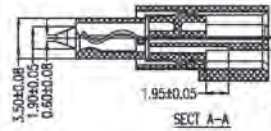
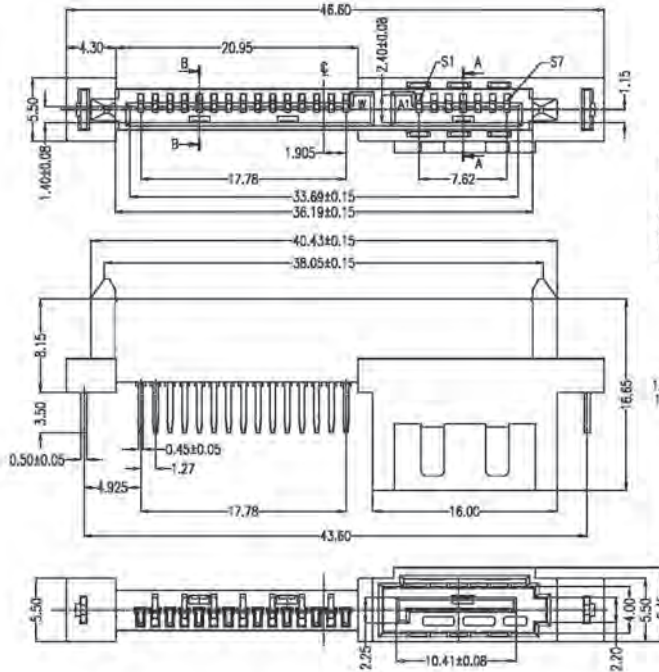
P/N S A T A  $\frac{29}{1}$  -  $\frac{H5}{2}$   $\frac{D}{3}$   $\frac{B}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"29" 7P+15P+7P
2. CONNECTOR CODE:  
"H5" STRAIGHT DIP TYPE W/O KEY
3. CONTACT TYPE:  
"D" 7+15P FEMALE & 7P MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SAS 7+15+7 PIN FEMALE+MALE CONNECTOR STRAIGHT DIP TYPE



**Recommended P.C. Board Layout  
Top View (T=3.00mm)**



Signal Segment		Power Segment			
Name	Type	Name	Type	Name	Type
S1	GND	P1	V13	P9	V5
S2	A+	P2	V33	P10	GND
S3	A-	P3	V33	P11	DAS/DSS
S4	GND	P4	GND	P12	GND
S5	B+	P5	GND	P13	V12
S6	B-	P6	GND	P14	V12
S7	GND	P7	V5	P15	V12
		P8	V5		

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -55°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

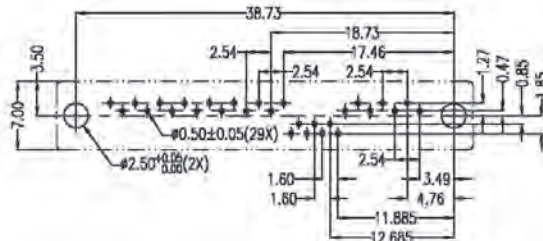
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

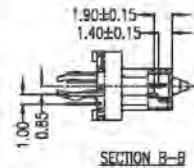
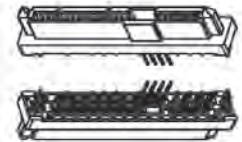
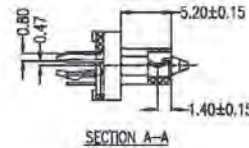
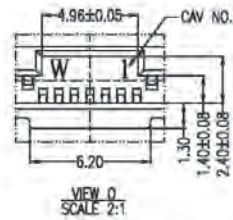
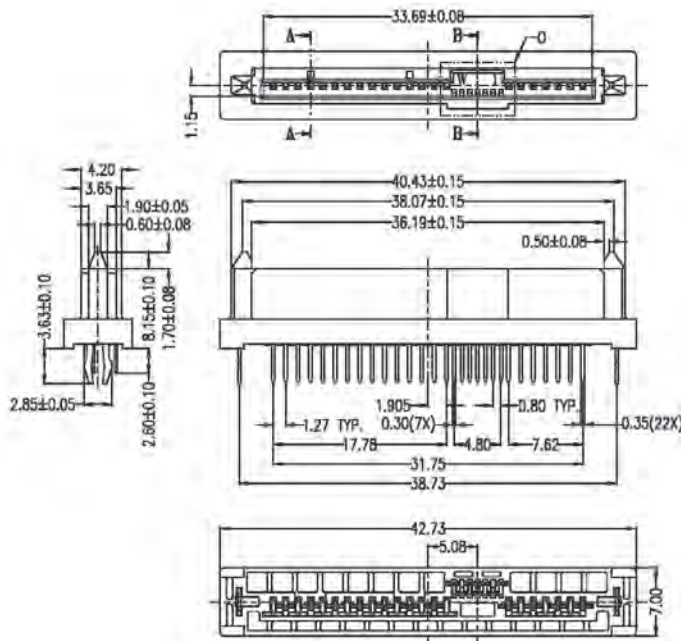
**P/N S A T A  $\frac{29}{1}$  -  $\frac{H6}{2}$   $\frac{D}{3}$   $\frac{B}{4}$   $\frac{x}{5}$**

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"H6" STRAIGHT DIP TYPE WITH KEY
- CONTACT TYPE:  
"D" 7+15P FEMALE & 7P MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C.Board Layout  
Component Side (T=1.57mm)



Power Element				
Pin No.	Type	Signal	Type	Signal
P1	VS	V1	VS	V1
P2	VS	V2	VS	V2
P3	VS	V3	VS	V3
P4	VS	V4	VS	V4
P5	VS	V5	VS	V5
P6	VS	V6	VS	V6
P7	VS	V7	VS	V7
P8	VS	V8	VS	V8

Signal Element				
Pin No.	Type	Signal	Type	Signal
S1	Signal	Signal	Signal	Signal
S2	Signal	Signal	Signal	Signal
S3	Signal	Signal	Signal	Signal
S4	Signal	Signal	Signal	Signal
S5	Signal	Signal	Signal	Signal
S6	Signal	Signal	Signal	Signal
S7	Signal	Signal	Signal	Signal
S8	Signal	Signal	Signal	Signal

## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** 0°C to +55°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Au Plating on Contact Area;  
 Tin (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

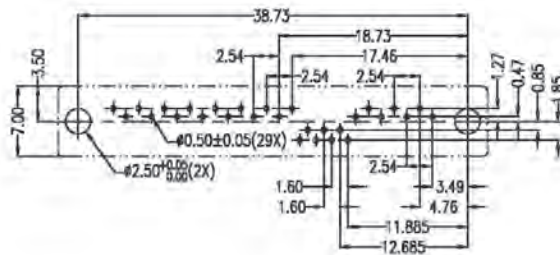
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

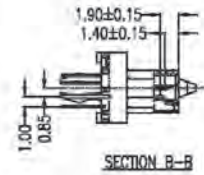
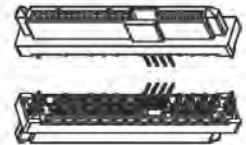
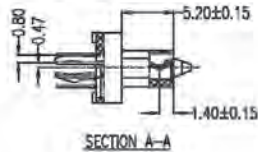
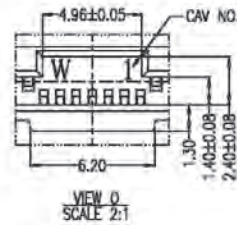
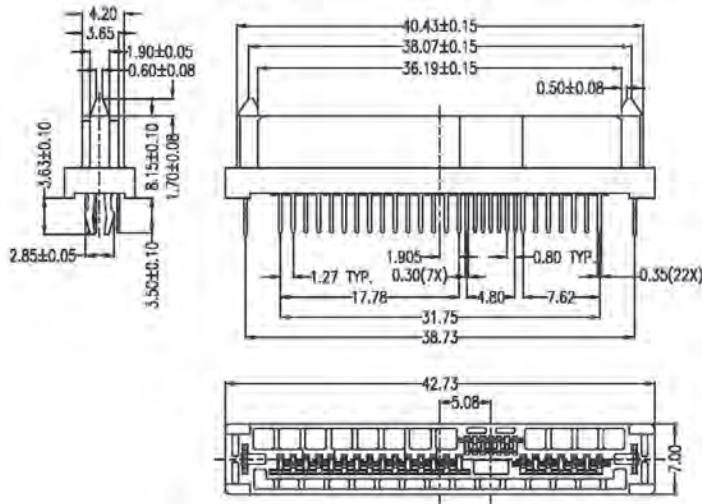
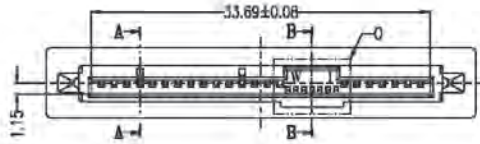
P/N S A T A  $\frac{29}{1}$  -  $\frac{H7}{2}$   $\frac{FB}{3}$   $\frac{XX}{4}$   $\frac{XX}{5}$

1. NO. OF CONTACTS:  
"29" 7P+15P+7P
2. CONNECTOR CODE:  
"H7" DOUBLE ROW DIP=2.6MM
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



Recommended P.C. Board Layout  
Component Side (T=2.36mm)



Pin No.	Type	Signal	Type
1-7	VII	Power	Ground
8-15	VII	Signal	Lead
16-22	Ground	VII	Ground
23-29	Ground	VII	Ground

Pin No.	Type	Signal	Type
1-7	Signal	Ground	Ground
8-15	Signal	Lead	Lead
16-22	Signal	Ground	Ground
23-29	Signal	Ground	Ground

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area; Tin (100u" Min.) Plating on Solder Tail; Ni (40u" Min.) Underplating overall

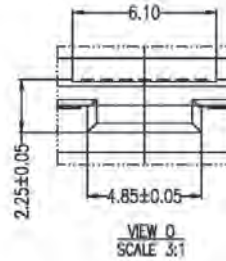
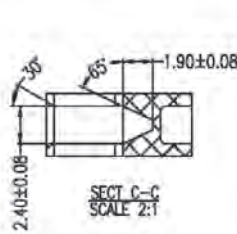
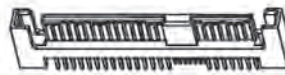
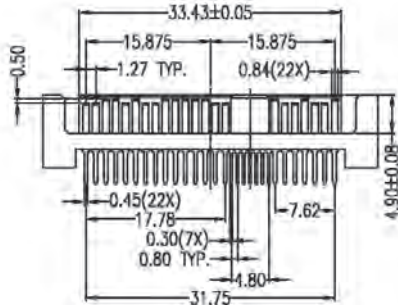
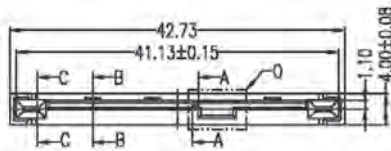
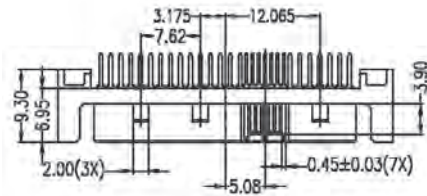
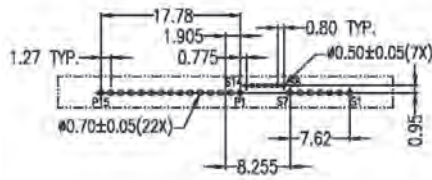
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

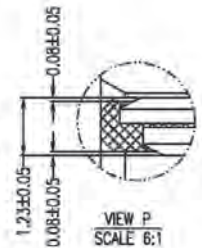
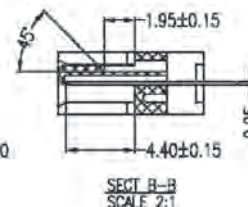
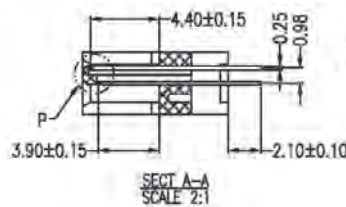
P/N S A T A  $\frac{29}{1}$  -  $\frac{H8}{2}$   $\frac{FB}{34}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"H8" DOUBLE ROW DIP=3.5MM
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SAS 7+15+7 PIN MALE CONNECTOR STRAIGHT DIP TYPE



Signal Segment			Power Segment		
Pin No.	Type	Color	Pin No.	Type	Color
1	Signal	White	16	Power	Black
2	Signal	White	17	Power	Black
3	Signal	White	18	Power	Black
4	Signal	White	19	Power	Black
5	Signal	White	20	Power	Black
6	Signal	White	21	Power	Black
7	Signal	White	22	Power	Black
8	Signal	White	23	Power	Black
9	Signal	White	24	Power	Black
10	Signal	White	25	Power	Black
11	Signal	White	26	Power	Black
12	Signal	White	27	Power	Black
13	Signal	White	28	Power	Black
14	Signal	White	29	Power	Black



## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** 0°C to +55°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Au Plating on Contact Area;  
 Sn (100" Min.) Plating on Solder  
 Tail; Ni (40" Min.) Underplating  
 overall

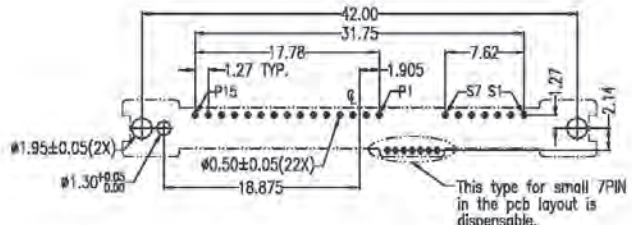
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

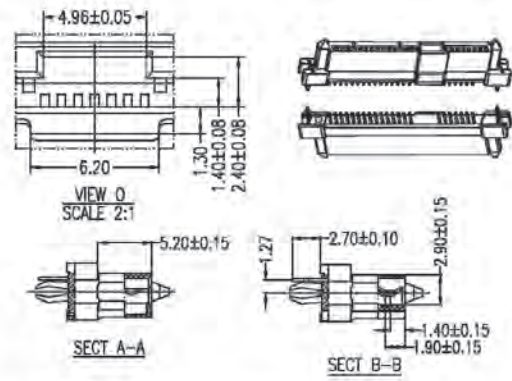
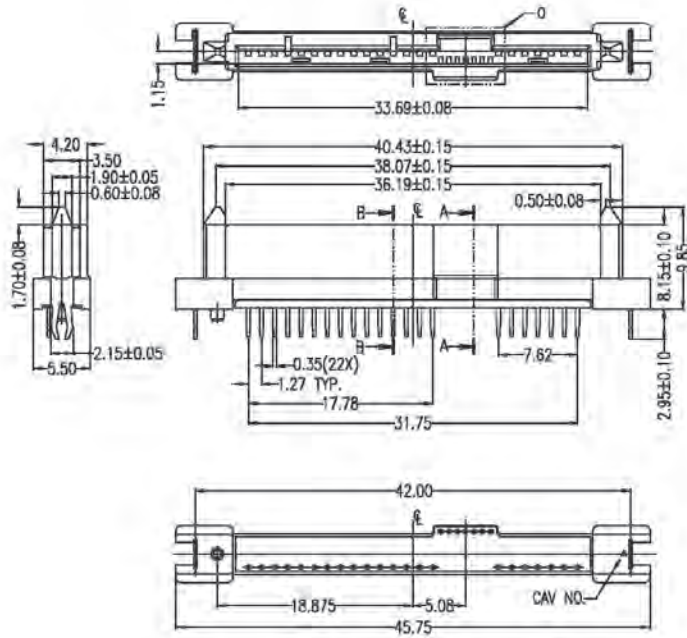
P/N S A T A  $\frac{29}{1}$  -  $\frac{H9}{2}$   $\frac{MB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"29" 7P+15P+7P
2. CONNECTOR CODE:  
"H9" STRAIGHT DIP TYPE
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT DIP TYPE



**Recommended P.C. Board Layout  
Component Side (T=1.60mm)**



Power Segment				Ground Segment			
Pin No.	Type	Normal	Type	Pin No.	Type	Normal	Type
P1	VAS	P4	V5	S1	Signal	Ground	Ground
P2	VAS	P10	Ground	S2	Signal	Ground	Ground
P3	VAS	P11	Body Ref.	S3	Signal	Ground	Ground
P4	Ground	P12	Ground	S4	Signal	Ground	Ground
P5	Ground	P13	V17	S5	Signal	Ground	Ground
P6	Ground	P14	V17	S6	Signal	Ground	Ground
P7	V5	P15	V17	S7	Signal	Ground	Ground
P8	V5			S7	Signal	Ground	Ground

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area; Tin (100u" Min.) Plating on Solder Tail; Ni (40u" Min.) Underplating overall

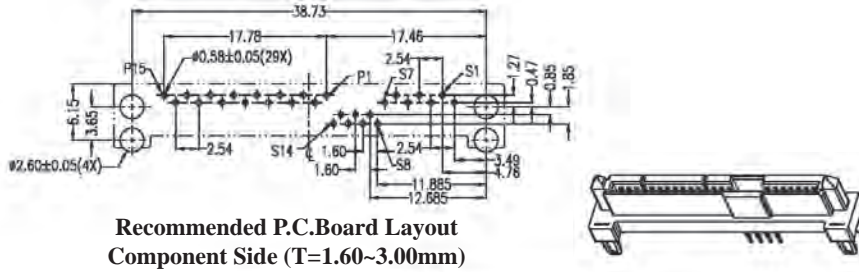
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

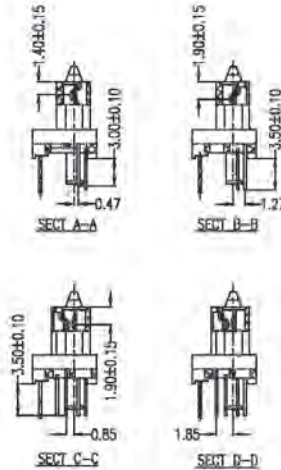
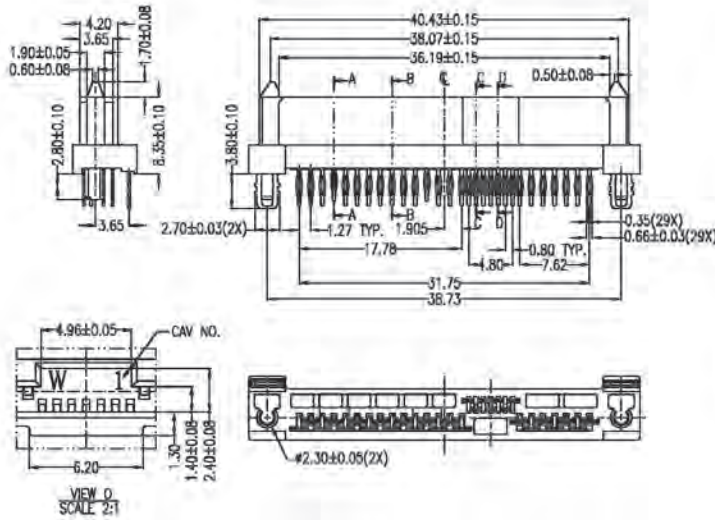
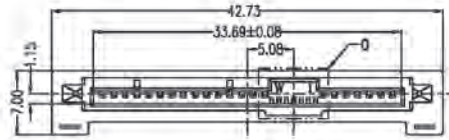
**P/N S A T A 29 - J1 F B x x**  
**1 2 3 4 5**

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"J1" STRAIGHT TYPE W/O SMALL 7 PINS
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SAS 7+15+7 PIN FEMALE CONNECTOR PRESS FIT TYPE



Recommended P.C. Board Layout  
Component Side (T=1.60~3.00mm)



Power Segment			
Pin No.	Type	Material	Type
P1	V13	T 24	IC
P2	V13	P10	Ground
P3	V13	P11	Ground
P4	Ground	P12	Ground
P5	Ground	P13	TYP
P6	Ground	P14	V15
P7	V5	P15	V17
P8	V5		

Signal Segment				
Pin No.	Type	Material	Type	
S1	Signal	Ground	S6	Signal
S2	IC		S7	IC
S3	IC		S8	IC
S4	Signal	Ground	S11	Signal
S5	IC		S12	IC
S6	IC		S13	IC
S7	Signal	Ground	S14	Signal
S8	Signal	Ground	S15	Signal

## ORDERING INFORMATION:

P/N S A T A  $\frac{29}{1}$  -  $\frac{P1}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"29" 7P+15P+7P
2. CONNECTOR CODE:  
"P1" DOUBLE ROW PRESS FIT TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## SPECIFICATIONS

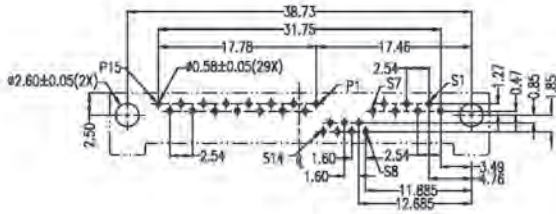
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: Nylon 9T, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

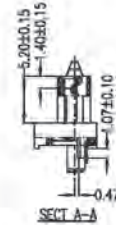
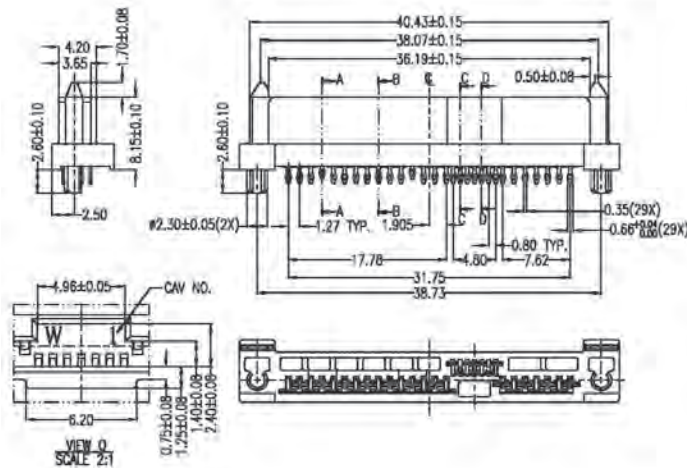
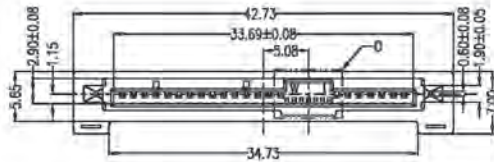
# SAS 7+15+7 PIN FEMALE CONNECTOR PRESS FIT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.60mm)

Signal Segment			
#	Pin	Material	Type
15	P15	PC	Signal Contact
1	P1	PC	Signal Contact
7	S7	PC	Signal Contact
1	S1	PC	Signal Contact
8	S8	PC	Signal Contact
14	S14	PC	Signal Contact
7	S14	PC	Signal Contact

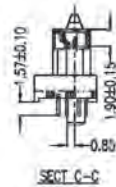
Power Segment			
Pin	Material	Type	Pin
15	PC	Power	15
1	PC	Power	1
7	PC	Power	7
1	PC	Power	1
8	PC	Power	8
14	PC	Power	14
7	PC	Power	7



SECT A-A



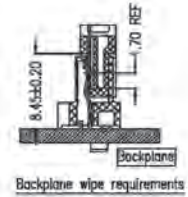
SECT B-B



SECT C-C



SECT D-D



Backplane wipe requirements

## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** 0°C to +55°C

## MATERIALS

**Housing:** Nylon 9T, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

\*RoHS & REACH compliant.

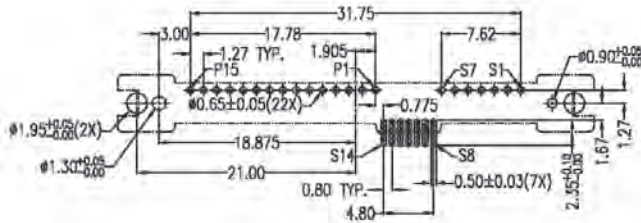
## ORDERING INFORMATION:

P/N S A T A  $\frac{29}{1}$  -  $\frac{P2}{2}$   $\frac{FB}{3}$   $\frac{XX}{4}$   $\frac{XX}{5}$

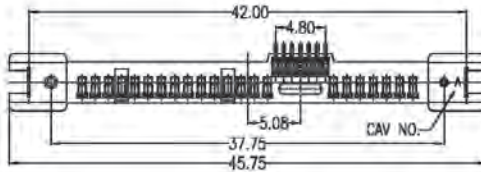
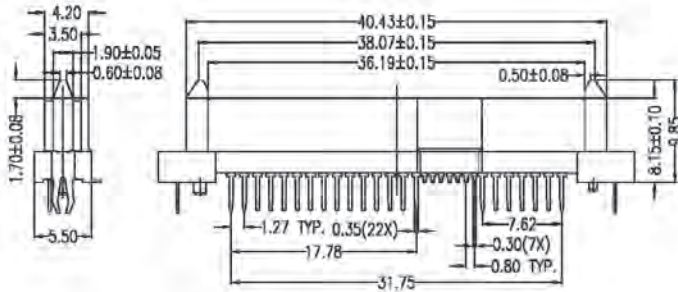
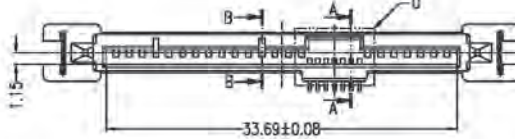
1. NO. OF CONTACTS:  
"29" 7P+15P+7P
2. CONNECTOR CODE:  
"P2" DOUBLE ROW PRESS FIT TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD



# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT DIP+SMT TYPE



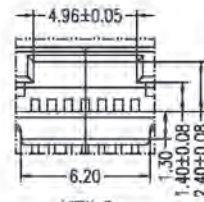
**Recommended P.C. Board Layout  
Component Side (T=1.60mm)**



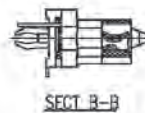
Pin No.	Type	Signal	Pin	Type
P1	VCC	P10	VS	
P2	VCC	P11	Ground	
P3	VCC	P12	Ground	
P4	Ground	P13	Ground	
P5	Ground	P14	V12	
P6	V2	P15	V12	
P7	V2			

Pin No.	Type	Signal	Pin	Type
S1	Signal	Ground	S8	Signal
S2	Signal	Ground	S9	Signal
S3	Signal	Ground	S10	Signal
S4	Signal	Ground	S11	Signal
S5	Signal	Ground	S12	Signal
S6	Signal	Ground	S13	Signal
S7	Signal	Ground	S14	Signal

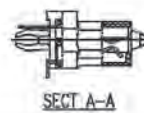
**\*RoHS & REACH compliant.**



**VIEW O  
SCALE 2:1**



**SECT B-B**



**SECT A-A**

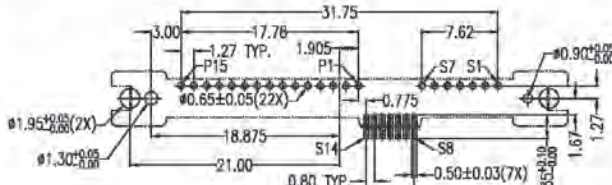
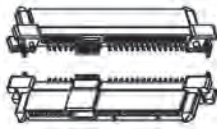


## ORDERING INFORMATION:

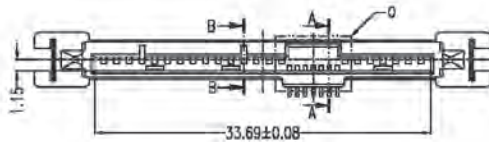
**P/N S A T A  $\frac{29}{1}$  -  $\frac{Q1}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{x}{5}$**

1. NO. OF CONTACTS:  
"29" 7P+15P+7P
2. CONNECTOR CODE:  
"Q1" DIP+SMT TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT DIP+SMT TYPE



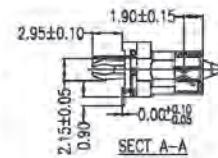
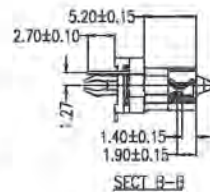
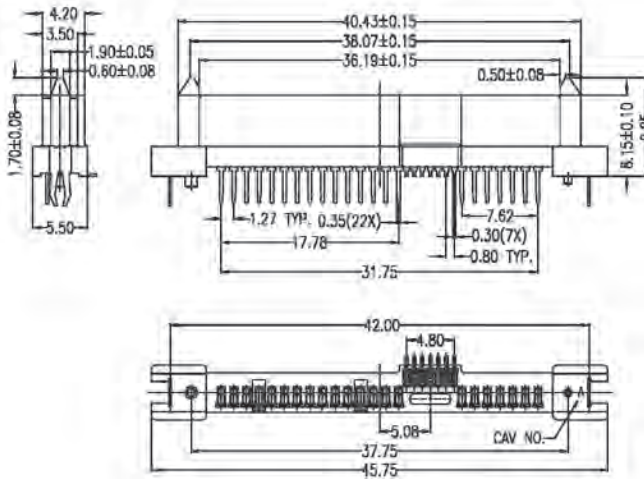
Recommended P.C. Board Layout  
Component Side (T=1.60mm)



Pin No.	Type	Material	Type
P1	VS	P10	Ground
P2	VS	P11	Ground Lead
P3	VS	P12	Ground
P4	Ground	P13	V1
P5	Ground	P14	V12
P6	VS	P15	V12
P7	VS		

Pin No.	Type	Material	Type	
S1	Signal	Ground	S11	Signal
S2	"	"	S21	"
S3	"	"	S31	"
S4	Signal	Ground	S41	Signal
S5	"	"	S51	"
S6	Signal	Ground	S61	Signal
S7	Signal	Ground	S71	Signal

\*RoHS & REACH compliant.

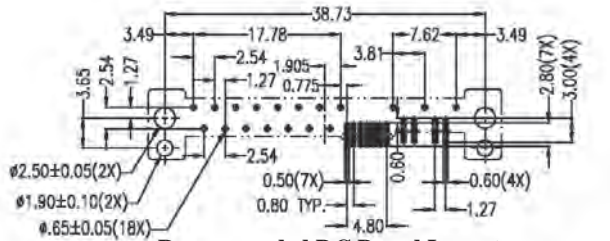


## ORDERING INFORMATION:

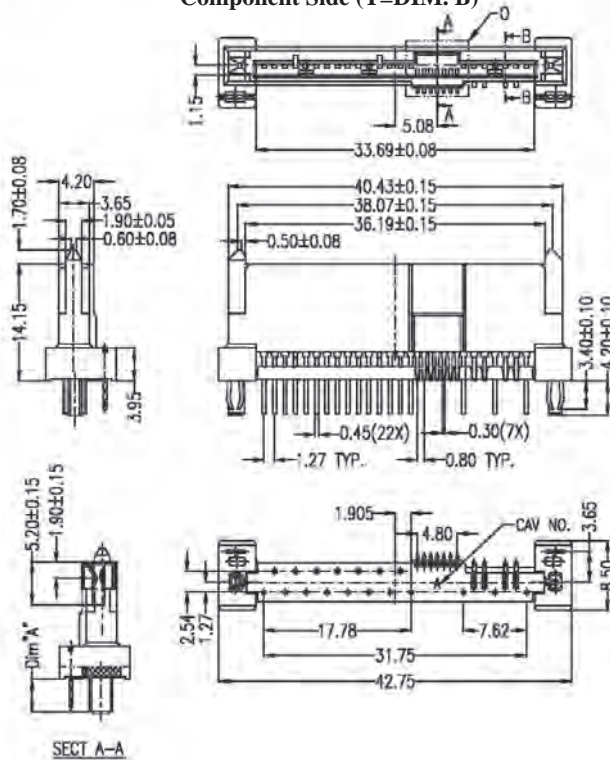
P/N S A T A  $\frac{29}{1}$  -  $\frac{Q2}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
"29" 7P+15P+7P
2. CONNECTOR CODE:  
"Q2" DIP+SMT TYPE WITH LOCK KEY
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT DIP+SMT TYPE



Recommended P.C. Board Layout  
Component Side (T=DIM. B)



SECT A-A

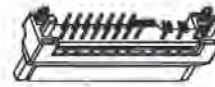
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

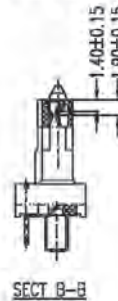
- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

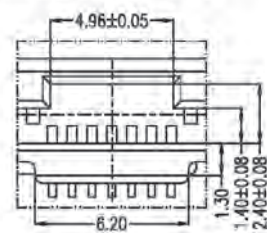


Pin No.	NC	Type	Signal	Type
1	VSS	P10	VSS	
2	VSS	P11	Signal	Ground
3	VSS	P12	Signal	Ground
4	Ground	P13	Signal	Ground
5	Signal	P14	V12	
6	Signal	P15	V11	
7	VSS	P16	V12	
8	VSS	P17	V11	
9	Signal	P18	Signal	Ground

Pin No.	Type	Signal	Type
10	Signal	Signal	Ground
11	Signal	Signal	Ground
12	Signal	Signal	Ground
13	Signal	Signal	Ground
14	Signal	Signal	Ground
15	Signal	Signal	Ground
16	Signal	Signal	Ground
17	Signal	Signal	Ground
18	Signal	Signal	Ground



SECT B-B



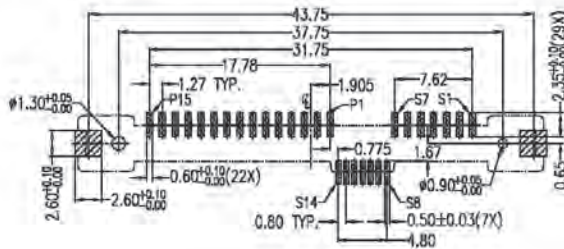
VIEW 0  
SCALE 3:1

## ORDERING INFORMATION:

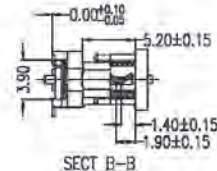
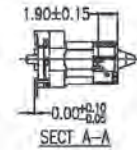
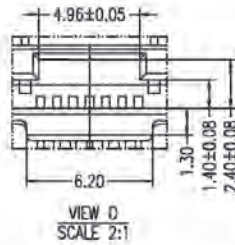
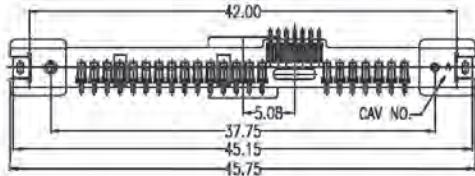
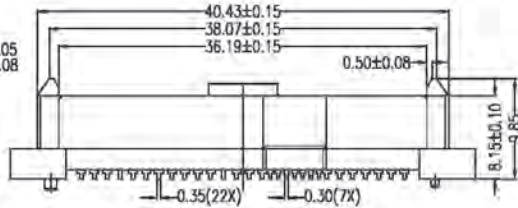
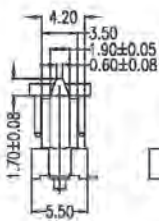
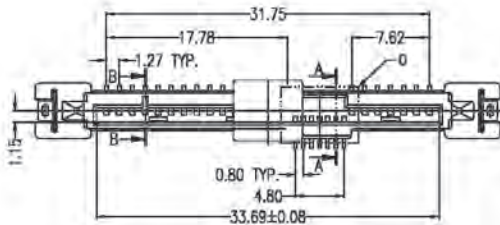
P/N S A T A  $\frac{29}{1}$  -  $\frac{xx}{2}$  F B  $\frac{xx}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"Q3" DIM. A/B=4.0/3.0MM  
"Q4" DIM. A/B=3.0/2.0MM
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT SMT TYPE



**Recommended P.C. Board Layout  
Component Side (T=1.60mm)**



Pin No.	Type	Pin Name	Type
P1	VAS	P1	VS
P2	VAS	P10	Ground
P3	VAS	P11	Ready Lead
P4	Ground	P12	Ground
P5	Ground	P13	V17
P6	Ground	P14	V17
P7	VS	P15	V17
P8	VS		

Pin No.	Type	Pin Name	Type
S1	Signal	Ground	S1
S2	Signal	Ground	S1
S3	Signal	Ground	S1
S4	Signal	Ground	S1
S5	Signal	Ground	S1
S6	Signal	Ground	S1
S7	Signal	Ground	S1
S8	Signal	Ground	S1

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

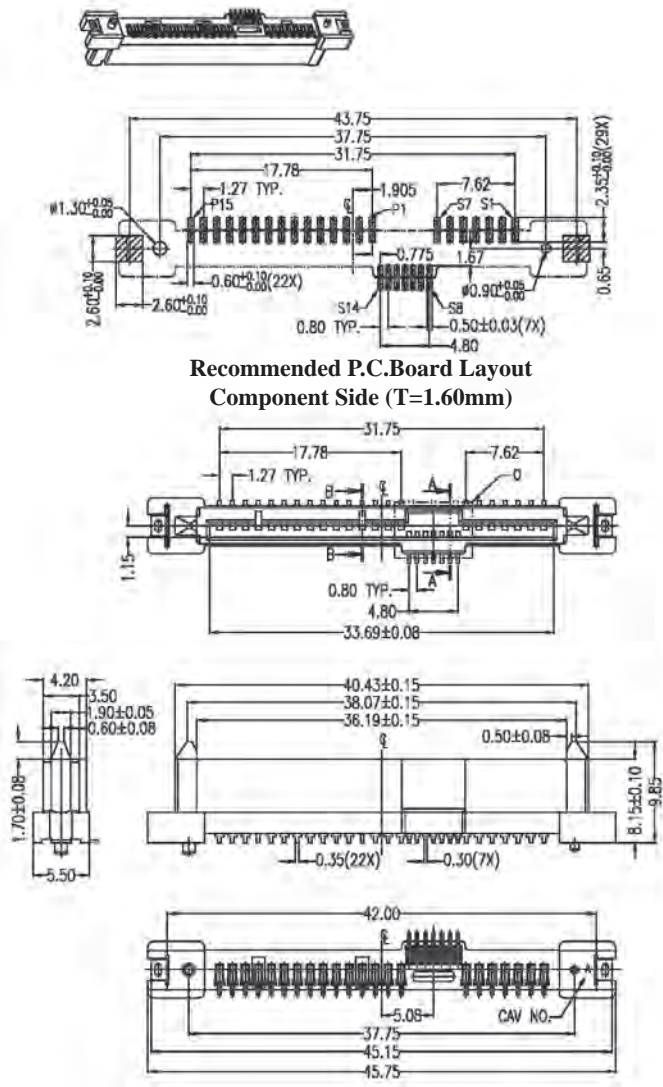
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

**P/N S A T A  $\frac{29}{1}$  - S  $\frac{1}{2}$  F B  $\frac{x}{4}$   $\frac{x}{5}$**

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"S1" SMT TYPE WITH LOCK KEY
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT SMT TYPE



Recommended P.C.Board Layout  
Component Side (T=1.60mm)

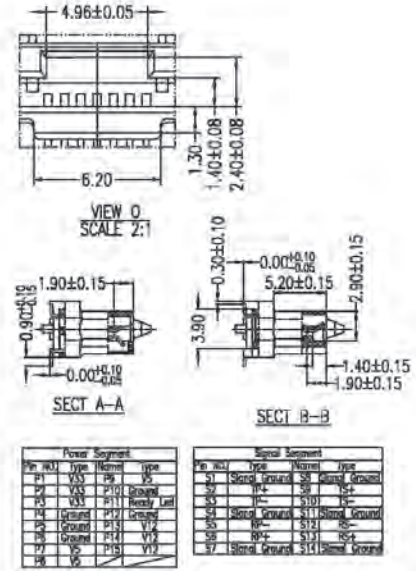
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.



Power Segment				
Pin No.	Type	Material	Type	
P1	VSS	P10	PS	
P2	VSS	P10	Ground	
P3	VSS	P11	Ready Lead	
P4	Ground	P12	Ground	
P5	Ground	P13	V12	
P6	Ground	P14	V15	
P7	V5	P15	V12	
P8	V5			

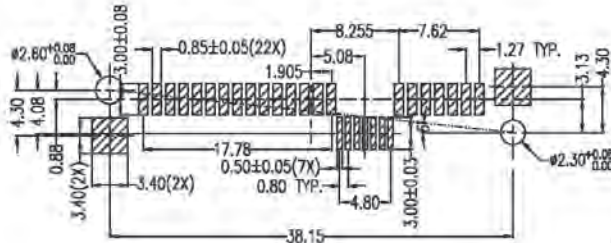
Signal Segment				
Pin No.	Type	Material	Type	
S1	Signal	Ground	S1	Signal Ground
S2	Signal	Ground	S2	Signal Ground
S3	Signal	IC	S10	IC
S4	Signal	Ground	S11	Signal Ground
S5	Signal	IC	S12	IC
S6	Signal	IC	S13	IC
S7	Signal	Ground	S14	Signal Ground
S8	Signal	Ground	S15	Signal Ground

## ORDERING INFORMATION:

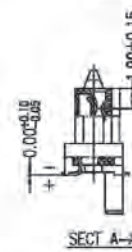
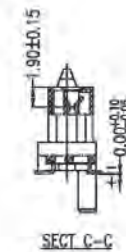
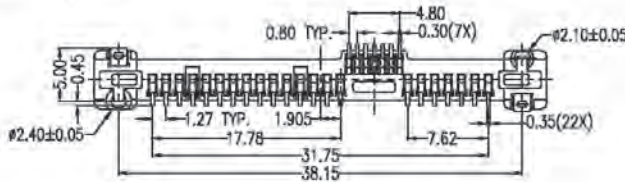
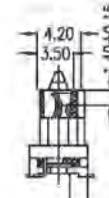
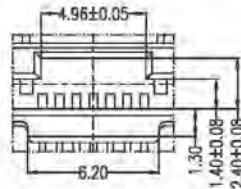
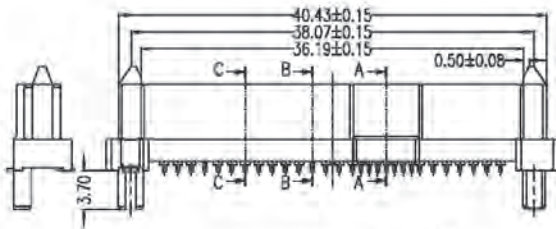
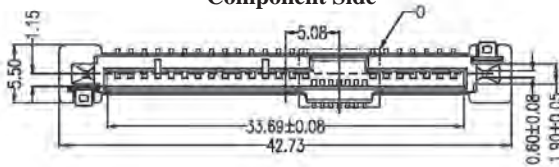
P/N S A T A  $\frac{29}{1}$  -  $\frac{S2}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"S2" STRAIGHT SMT TYPE
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SAS 7+15+7 PIN FEMALE CONNECTOR STRAIGHT SMT TYPE



Recommended P.C. Board Layout  
Component Side



Power Segment				
Pin No.	Type	Name	Typ.	
P1	VAS	V+	V5	
P2	VAS	#101	Ground	
P3	VAS	#111	Signal	Line
P4	Ground	#121	Ground	
P5	Ground	#131	V12	
P6	Ground	#141	V12	
P7	V+	#151	V12	
P8	V+			

Signal Segment				
Pin No.	Type	Name	Typ.	
S1	Signal	Ground	S11	Signal
S2	Signal	Ground	S12	Signal
S3	Signal	Ground	S13	Signal
S4	Signal	Ground	S14	Signal
S5	Signal	Ground	S15	Signal
S6	Signal	Ground	S16	Signal
S7	Signal	Ground	S17	Signal

## ORDERING INFORMATION:

P/N S A T A  $\frac{29}{1}$  -  $\frac{S3}{2}$   $\frac{FB}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"29" 7P+15P+7P
2. CONNECTOR CODE:  
"S3" STRAIGHT SMT TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

## SPECIFICATIONS

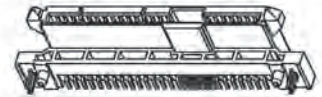
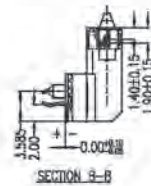
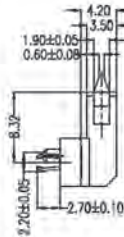
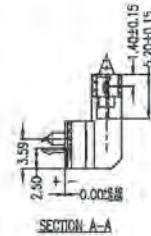
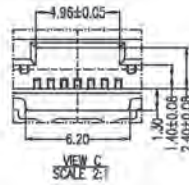
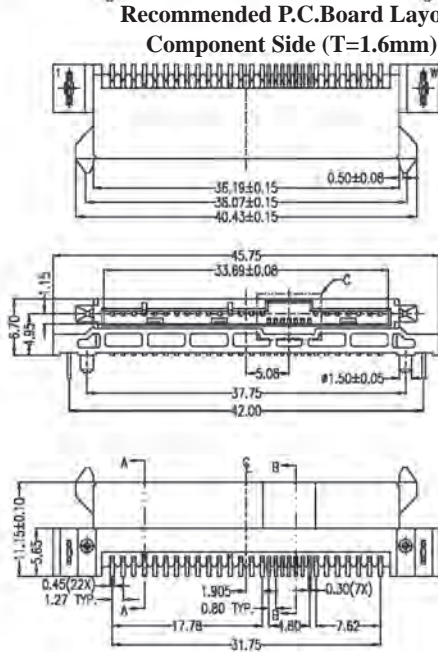
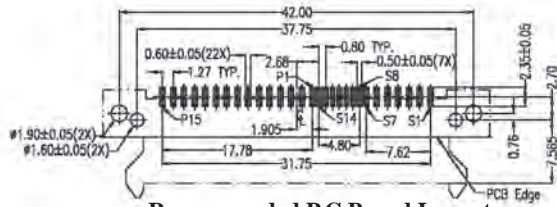
- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

# SAS 7+15+7 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



Pin No.	Pin Name	Pin Type
1	NC	NC
2	NC	NC
3	NC	NC
4	NC	NC
5	NC	NC
6	NC	NC
7	NC	NC
8	NC	NC
9	NC	NC
10	NC	NC
11	NC	NC
12	NC	NC
13	NC	NC
14	NC	NC
15	NC	NC
16	NC	NC
17	NC	NC
18	NC	NC
19	NC	NC
20	NC	NC
21	NC	NC
22	NC	NC
23	NC	NC
24	NC	NC
25	NC	NC
26	NC	NC
27	NC	NC
28	NC	NC
29	NC	NC
30	NC	NC

Pin No.	Pin Name	Pin Type
1	NC	NC
2	NC	NC
3	NC	NC
4	NC	NC
5	NC	NC
6	NC	NC
7	NC	NC
8	NC	NC
9	NC	NC
10	NC	NC
11	NC	NC
12	NC	NC
13	NC	NC
14	NC	NC
15	NC	NC
16	NC	NC
17	NC	NC
18	NC	NC
19	NC	NC
20	NC	NC
21	NC	NC
22	NC	NC
23	NC	NC
24	NC	NC
25	NC	NC
26	NC	NC
27	NC	NC
28	NC	NC
29	NC	NC
30	NC	NC

## SPECIFICATIONS

Current Rating: 1.5 Amperes  
 Insulation Resistance: 1000MΩ Min  
 Dielectric Withstanding: 500V AC  
 Contact Resistance: 30mΩ Max.  
 Operating Temperature: 0°C to +55°C

## MATERIALS

Housing: LCP, UL94V-0  
 Contact: Phosphor Bronze  
 Plating: Au Plating on Contact Area;  
 Tin (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

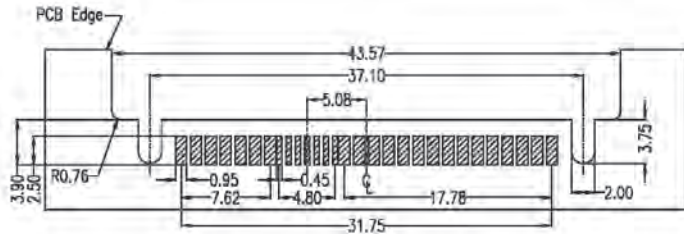
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

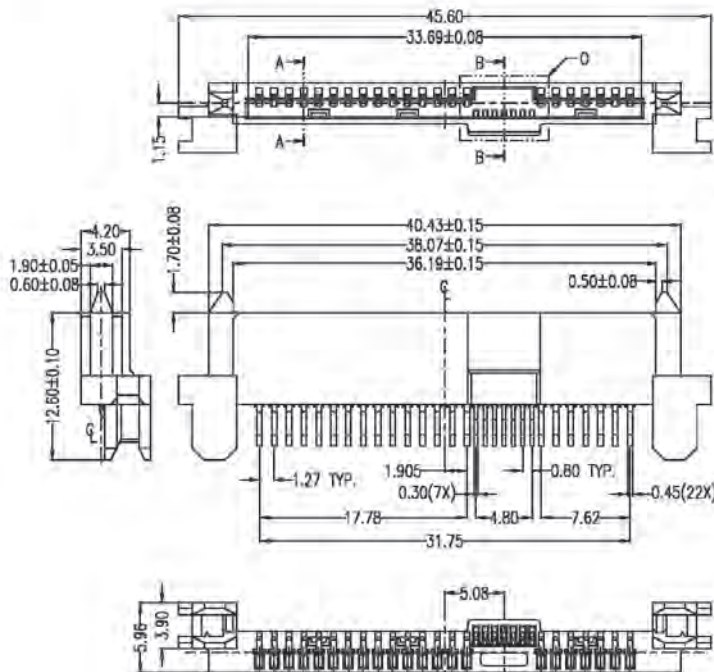
P/N S A T A  $\frac{29}{1}$  - S  $\frac{4}{2}$  F  $\frac{B}{3}$   $\frac{X}{4}$   $\frac{X}{5}$

1. NO. OF CONTACTS:  
"29" 7P+15P+7P
2. CONNECTOR CODE:  
"S4" R/A SMT TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SAS 7+15+7 PIN FEMALE CONNECTOR STRADDLE TYPE



Recommended P.C. Board Layout  
Component Side (T=1.6mm)



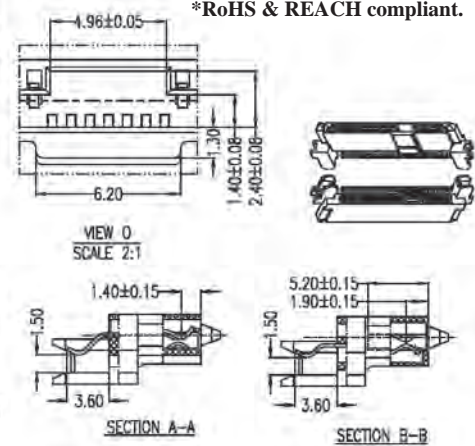
## SPECIFICATIONS

**Current Rating:** 1.5 Amperes  
**Insulation Resistance:** 1000MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** 0°C to +55°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Au Plating on Contact Area;  
 Tin (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

\*RoHS & REACH compliant.



Power Segment				Signal Segment			
Pin	MLL	Type	Plating	Type	Pin	MLL	Type
P1	VCC	P10	VS		P1	Signal	Ground
P2	VCC	P11	VS		P2	Signal	Ground
P3	VCC	P12	VS		P3	Signal	Ground
P4	Ground	P13	VS	Shield	P4	Signal	Ground
P5	Ground	P14	VS	Shield	P5	Signal	Ground
P6	Ground	P15	VS	Shield	P6	Signal	Ground
P7	VS	P16	VCC		P7	Signal	Ground
P8	VS	P17	VCC		P8	Signal	Ground

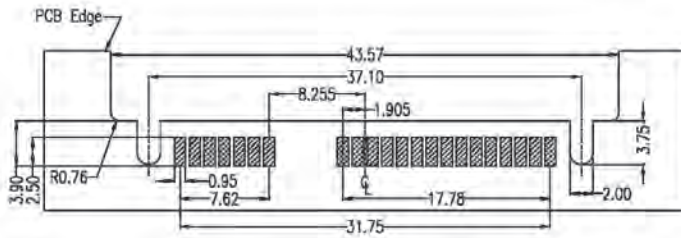
## ORDERING INFORMATION:

P/N S A T A  $\frac{29}{1}$  - S  $\frac{5}{2}$  F  $\frac{B}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

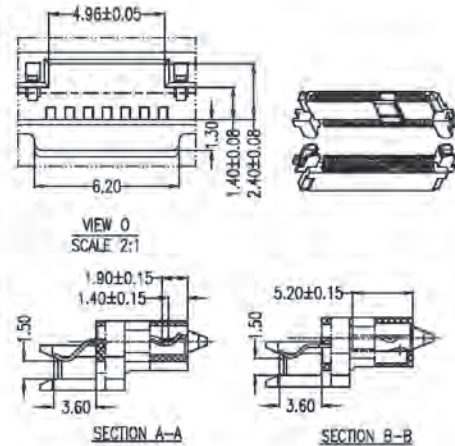
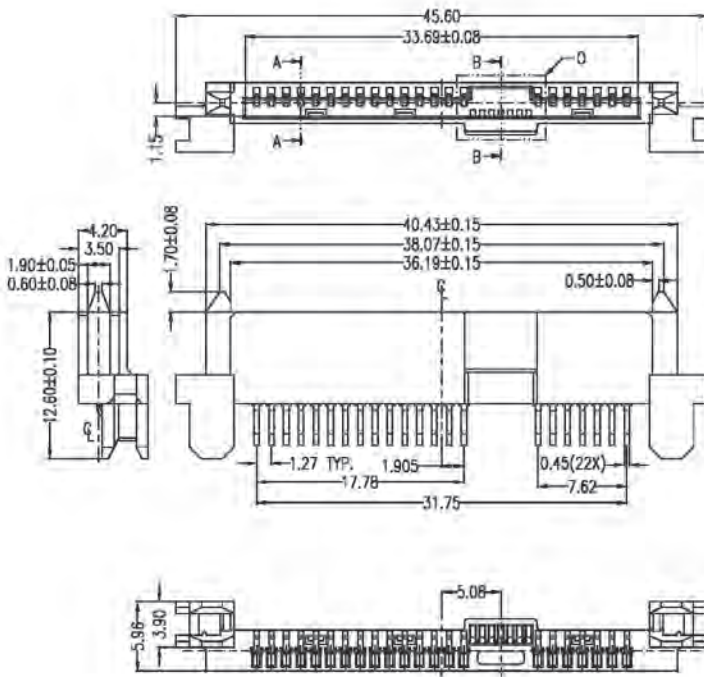
1. NO. OF CONTACTS:  
"29" 7P+15P+7P
2. CONNECTOR CODE:  
"S5" STRADDLE TYPE
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD



# SAS 7+15+7 PIN FEMALE CONNECTOR STRADDLE TYPE



Recommended P.C. Board Layout  
Component Side (T=1.60mm)



Power Segment				Signal Segment			
Pin No.	Type	Alleg.	Use	Pin No.	Type	Alleg.	Use
1	VSS	1	Ground	18	Signal	18	Signal
2	VSS	1	Ground	19	Signal	19	Signal
3	Ground	1	Ground	20	Signal	20	Signal
4	Ground	1	Ground	21	Signal	21	Signal
5	Ground	1	Ground	22	Signal	22	Signal
6	VSS	1	Ground	23	Signal	23	Signal
7	VSS	1	Ground	24	Signal	24	Signal
8	VSS	1	Ground	25	Signal	25	Signal
9	VSS	1	Ground	26	Signal	26	Signal
10	VSS	1	Ground	27	Signal	27	Signal
11	VSS	1	Ground	28	Signal	28	Signal
12	VSS	1	Ground	29	Signal	29	Signal
13	VSS	1	Ground	30	Signal	30	Signal
14	VSS	1	Ground	31	Signal	31	Signal
15	VSS	1	Ground	32	Signal	32	Signal
16	VSS	1	Ground	33	Signal	33	Signal
17	VSS	1	Ground	34	Signal	34	Signal

## SPECIFICATIONS

Current Rating: 1.5 Amperes  
 Insulation Resistance: 1000MΩ Min  
 Dielectric Withstanding: 500V AC  
 Contact Resistance: 30mΩ Max.  
 Operating Temperature: 0°C to +55°C

## MATERIALS

Housing: LCP, UL94V-0  
 Contact: Phosphor Bronze  
 Plating: Au Plating on Contact Area;  
 Tin (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

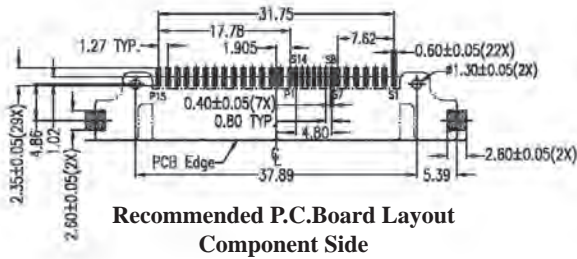
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N S A T A  $\frac{29}{1}$  -  $\frac{S6}{2}$   $\frac{FB}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"S6" STRADDLE TYPE W/O SMALL 7 PINS
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SAS 7+15+7 PIN MALE CONNECTOR SMT TYPE



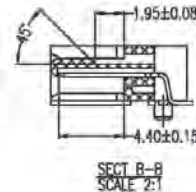
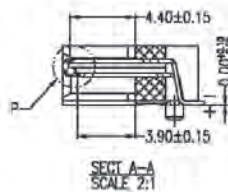
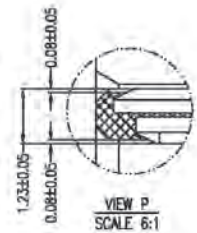
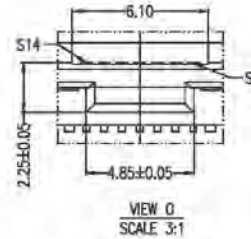
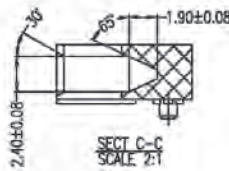
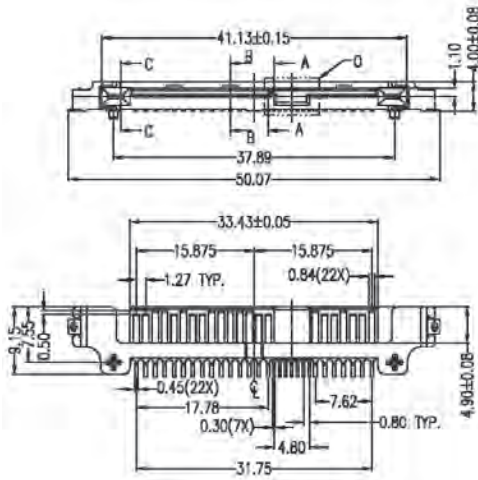
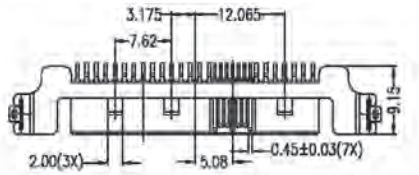
## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.



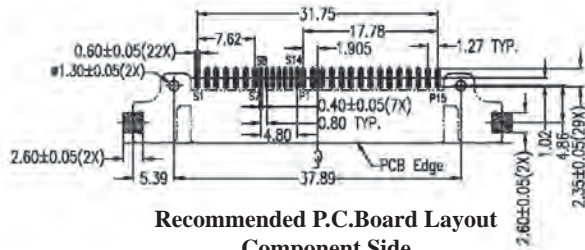
Signal Segment			Power Segment		
Pin No.	Pin Type	Pin Type	Pin No.	Pin Type	Pin Type
1	15	15	1	15	15
2	15	15	2	15	15
3	15	15	3	15	15
4	15	15	4	15	15
5	15	15	5	15	15
6	15	15	6	15	15
7	15	15	7	15	15
8	15	15	8	15	15
9	15	15	9	15	15
10	15	15	10	15	15
11	15	15	11	15	15
12	15	15	12	15	15
13	15	15	13	15	15
14	15	15	14	15	15
15	15	15	15	15	15
16	15	15	16	15	15
17	15	15	17	15	15
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21	15	15	21	15	15
22	15	15	22	15	15
23	15	15	23	15	15
24	15	15	24	15	15
25	15	15	25	15	15
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27	15	15	27	15	15
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29	15	15	29	15	15

## ORDERING INFORMATION:

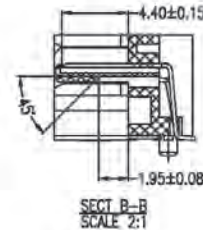
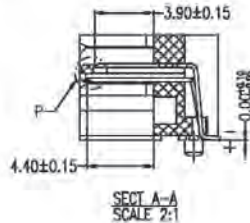
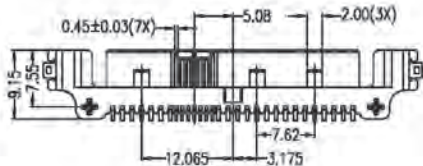
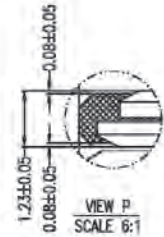
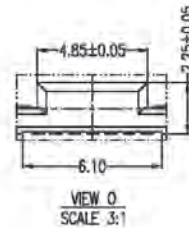
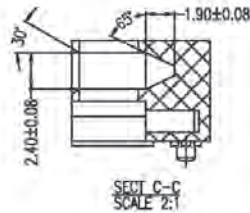
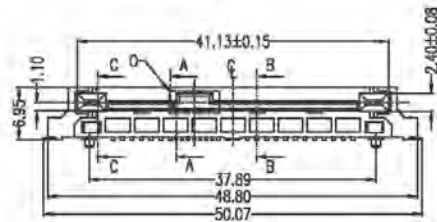
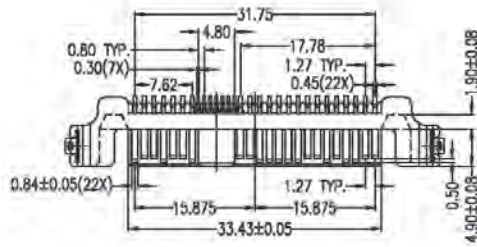
P/N S A T A  $\frac{29}{1}$  - S  $\frac{7}{2}$  M  $\frac{B}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"S7" SMT TYPE
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SAS 7+15+7 PIN MALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C.Board Layout  
Component Side



Signal Segment			Power Segment		
Pin No.	Layer	Plating	Pin No.	Layer	Plating
1-7	1	100u"	1-7	1	100u"
1-7	2	40u"	1-7	2	40u"
1-7	3	100u"	1-7	3	100u"
1-7	4	40u"	1-7	4	40u"
1-7	5	100u"	1-7	5	100u"
1-7	6	40u"	1-7	6	40u"
1-7	7	100u"	1-7	7	100u"
1-7	8	40u"	1-7	8	40u"
1-7	9	100u"	1-7	9	100u"
1-7	10	40u"	1-7	10	40u"
1-7	11	100u"	1-7	11	100u"
1-7	12	40u"	1-7	12	40u"
1-7	13	100u"	1-7	13	100u"
1-7	14	40u"	1-7	14	40u"
1-7	15	100u"	1-7	15	100u"
1-7	16	40u"	1-7	16	40u"
1-7	17	100u"	1-7	17	100u"
1-7	18	40u"	1-7	18	40u"
1-7	19	100u"	1-7	19	100u"
1-7	20	40u"	1-7	20	40u"
1-7	21	100u"	1-7	21	100u"
1-7	22	40u"	1-7	22	40u"
1-7	23	100u"	1-7	23	100u"
1-7	24	40u"	1-7	24	40u"
1-7	25	100u"	1-7	25	100u"
1-7	26	40u"	1-7	26	40u"
1-7	27	100u"	1-7	27	100u"
1-7	28	40u"	1-7	28	40u"
1-7	29	100u"	1-7	29	100u"
1-7	30	40u"	1-7	30	40u"

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

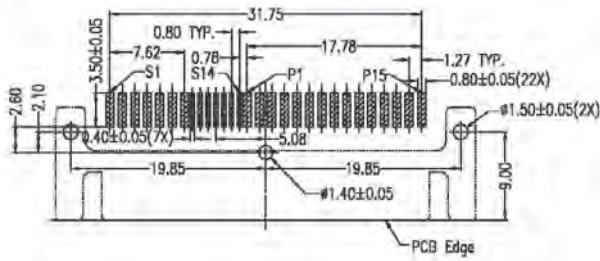
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

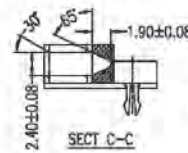
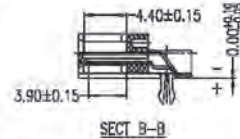
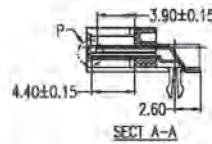
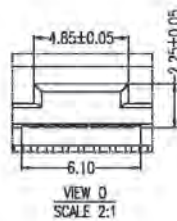
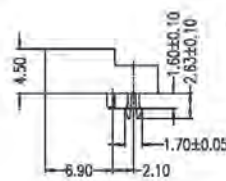
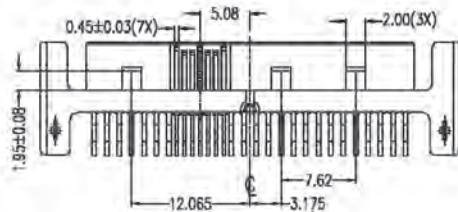
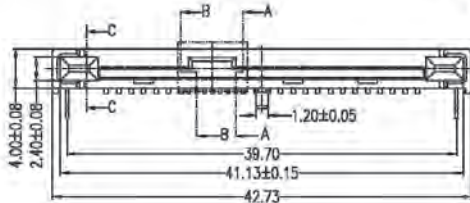
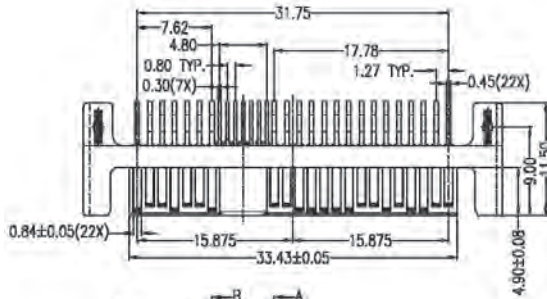
P/N S A T A  $\frac{29}{1}$  - S  $\frac{8}{2}$  M  $\frac{B}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"S8" REVERSE SMT TYPE
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

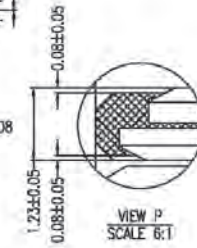
# SAS 7+15+7 PIN MALE CONNECTOR REVERSE MOUNT SMT TYPE



Recommended P.C. Board Layout  
Component Side (T=1.60mm)



Signal Segment	Pin No.	Pin Type
1	1	Signal
2	2	Signal
3	3	Signal
4	4	Signal
5	5	Signal
6	6	Signal
7	7	Signal
8	8	Signal
9	9	Signal
10	10	Signal
11	11	Signal
12	12	Signal
13	13	Signal
14	14	Signal
15	15	Signal
16	16	Signal
17	17	Signal
18	18	Signal
19	19	Signal
20	20	Signal
21	21	Signal
22	22	Signal
23	23	Signal
24	24	Signal
25	25	Signal
26	26	Signal
27	27	Signal
28	28	Signal
29	29	Signal
30	30	Signal
31	31	Signal
32	32	Signal
33	33	Signal
34	34	Signal
35	35	Signal
36	36	Signal
37	37	Signal
38	38	Signal
39	39	Signal
40	40	Signal
41	41	Signal
42	42	Signal
43	43	Signal
44	44	Signal
45	45	Signal
46	46	Signal
47	47	Signal
48	48	Signal
49	49	Signal
50	50	Signal
51	51	Signal
52	52	Signal
53	53	Signal
54	54	Signal
55	55	Signal
56	56	Signal
57	57	Signal
58	58	Signal
59	59	Signal
60	60	Signal
61	61	Signal
62	62	Signal
63	63	Signal
64	64	Signal
65	65	Signal
66	66	Signal
67	67	Signal
68	68	Signal
69	69	Signal
70	70	Signal
71	71	Signal
72	72	Signal
73	73	Signal
74	74	Signal
75	75	Signal
76	76	Signal
77	77	Signal
78	78	Signal
79	79	Signal
80	80	Signal
81	81	Signal
82	82	Signal
83	83	Signal
84	84	Signal
85	85	Signal
86	86	Signal
87	87	Signal
88	88	Signal
89	89	Signal
90	90	Signal
91	91	Signal
92	92	Signal
93	93	Signal
94	94	Signal
95	95	Signal
96	96	Signal
97	97	Signal
98	98	Signal
99	99	Signal
100	100	Signal



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area; Tin (100u" Min.) Plating on Solder Tail; Ni (40u" Min.) Underplating overall

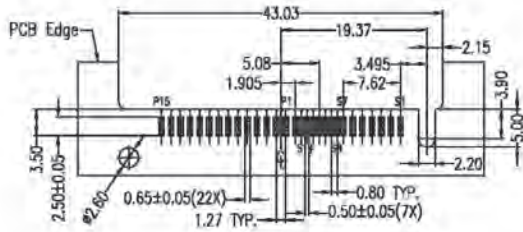
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

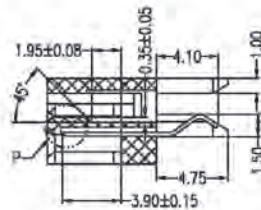
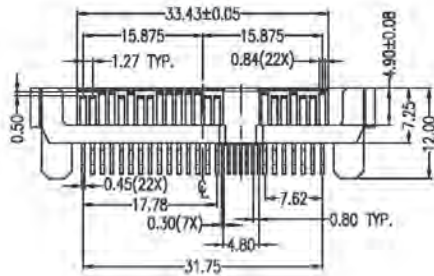
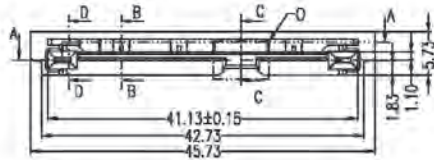
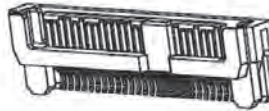
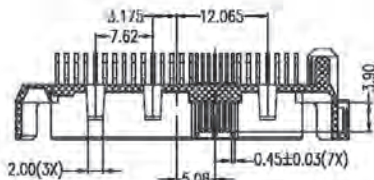
P/N S A T A  $\frac{29}{1}$  -  $\frac{S9}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{X}{5}$

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"S9" REVERSE SMT TYPE WITH METAL POSTS
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

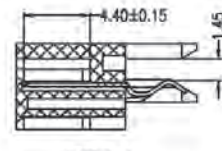
# SAS 7+15+7 PIN MALE CONNECTOR STRADDLE TYPE



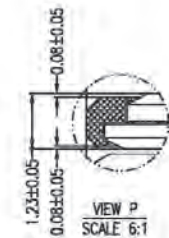
Recommended P.C. Board Layout  
Component Side (T=1.60mm)



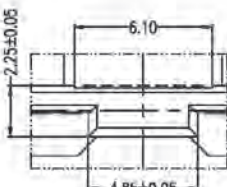
SECT B-B  
SCALE 2:1



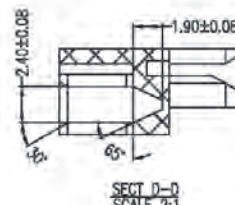
SECT C-C  
SCALE 2:1



VIEW P  
SCALE 6:1



VIEW Q  
SCALE 3:1



SECT D-D  
SCALE 2:1

Signal Segment		Power Segment	
Pin	Color	Pin	Color
1	Black	1	Black
2	Black	2	Black
3	Black	3	Black
4	Black	4	Black
5	Black	5	Black
6	Black	6	Black
7	Black	7	Black
8	Black	8	Black
9	Black	9	Black
10	Black	10	Black
11	Black	11	Black
12	Black	12	Black
13	Black	13	Black
14	Black	14	Black
15	Black	15	Black
16	Black	16	Black
17	Black	17	Black
18	Black	18	Black
19	Black	19	Black
20	Black	20	Black
21	Black	21	Black
22	Black	22	Black
23	Black	23	Black
24	Black	24	Black
25	Black	25	Black
26	Black	26	Black
27	Black	27	Black
28	Black	28	Black
29	Black	29	Black
30	Black	30	Black

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

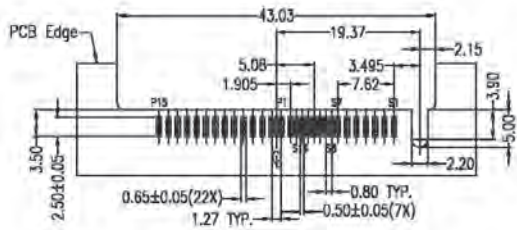
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

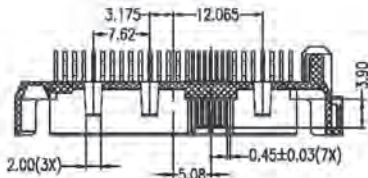
P/N S A T A  $\frac{29}{1}$  -  $\frac{T1}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"T1" STRADDLE TYPE FOR T=1.60mm
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

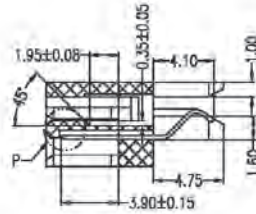
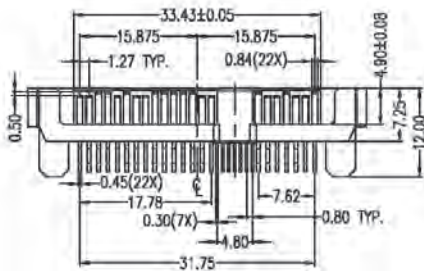
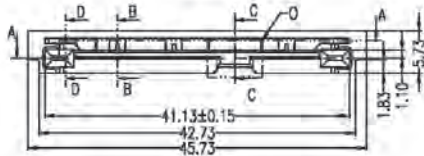
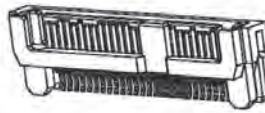
# SAS 7+15+7 PIN MALE CONNECTOR STRADDLE TYPE



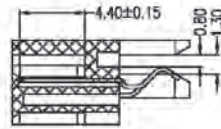
Recommended P.C. Board Layout  
Component Side (T=1.00mm)



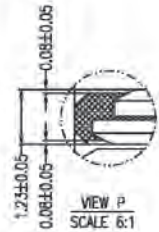
SECT A-A



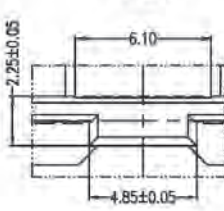
SECT B-B  
SCALE 2:1



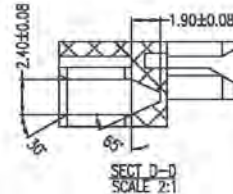
SECT C-C  
SCALE 2:1



VIEW P  
SCALE 6:1



VIEW Q  
SCALE 3:1



SECT D-D  
SCALE 2:1

Signal	Signal	Power	Power
Pin No.	Pin No.	Pin No.	Pin No.
Type	Type	Type	Type
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30

## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder Tail; Ni (40u" Min.) Underplating overall

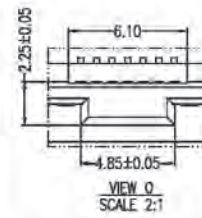
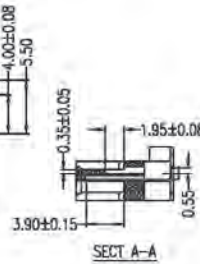
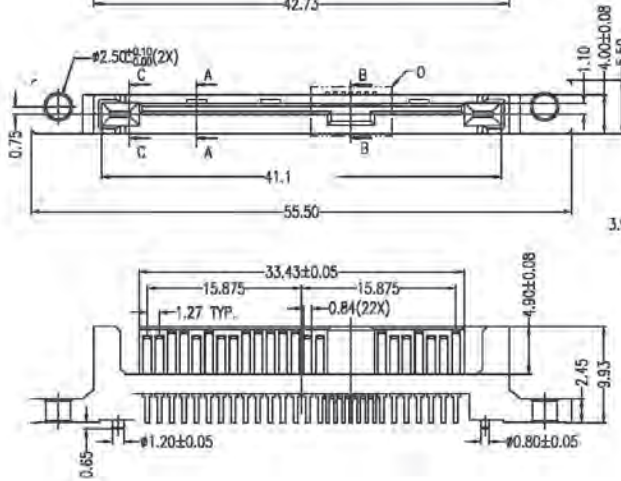
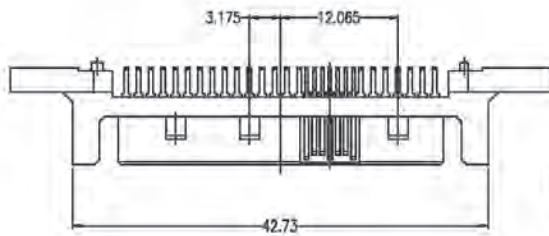
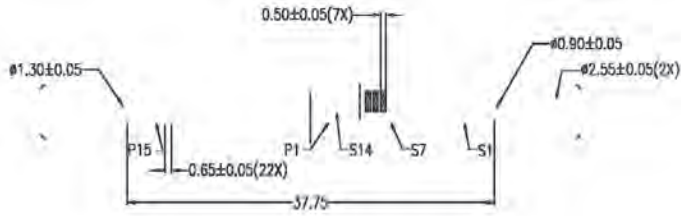
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

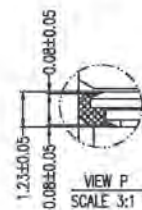
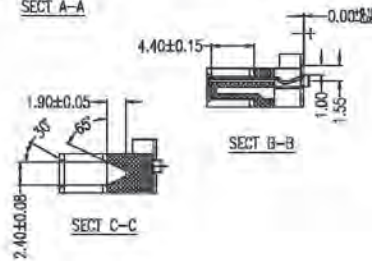
P/N S A T A  $\frac{29}{1}$  -  $\frac{T2}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"T2" STRADDLE TYPE FOR T=1.00mm
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# SAS 7+15+7 PIN MALE CONNECTOR STRAIGHT SMT TYPE



Signal Segment			Power Segment		
Pin	Mat.	Type	Pin	Mat.	Type
1	15	01	1	15	01
2	15	01	2	15	01
3	15	01	3	15	01
4	15	01	4	15	01
5	15	01	5	15	01
6	15	01	6	15	01
7	15	01	7	15	01
8	15	01	8	15	01
9	15	01	9	15	01
10	15	01	10	15	01
11	15	01	11	15	01
12	15	01	12	15	01
13	15	01	13	15	01
14	15	01	14	15	01
15	15	01	15	15	01
16	15	01	16	15	01
17	15	01	17	15	01
18	15	01	18	15	01
19	15	01	19	15	01
20	15	01	20	15	01
21	15	01	21	15	01
22	15	01	22	15	01
23	15	01	23	15	01
24	15	01	24	15	01
25	15	01	25	15	01
26	15	01	26	15	01
27	15	01	27	15	01
28	15	01	28	15	01
29	15	01	29	15	01



## SPECIFICATIONS

- Current Rating: 1.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: 0°C to +55°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

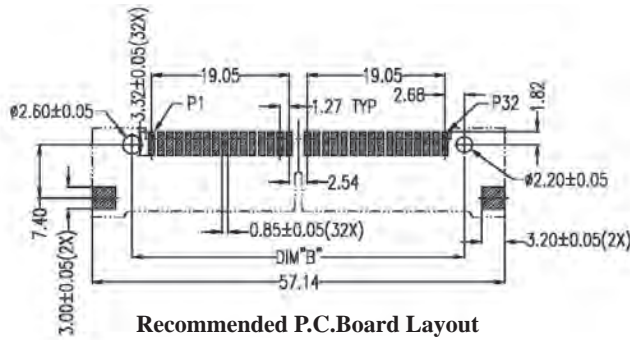
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

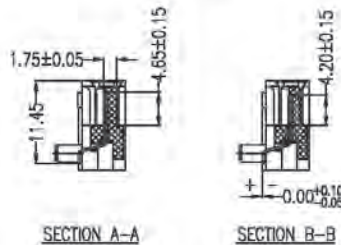
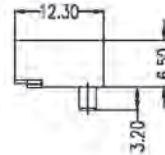
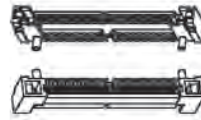
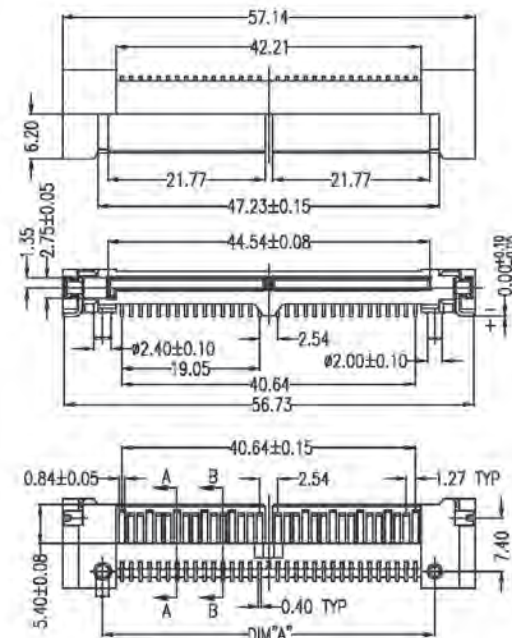
P/N S A T A  $\frac{29}{1}$  -  $\frac{T3}{2}$   $\frac{M}{3}$   $\frac{B}{4}$   $\frac{XX}{5}$

- NO. OF CONTACTS:  
"29" 7P+15P+7P
- CONNECTOR CODE:  
"T3" SMT TYPE
- CONTACT TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# SAS 32 PIN MALE CONNECTOR RIGHT ANGLE SMT TYPE



**Recommended P.C. Board Layout  
Component Side**



## SPECIFICATIONS

- Current Rating:** 1.5 Amperes
- Insulation Resistance:** 1000MΩ Min
- Dielectric Withstanding:** 500V AC
- Contact Resistance:** 30mΩ Max.
- Operating Temperature:** -55°C to +85°C

## MATERIALS

- Housing:** Nylon 9T, UL94V-0
- Contact:** Brass
- Plating:** Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder Tail; Ni (40u" Min.) Underplating overall

\*RoHS & REACH compliant.

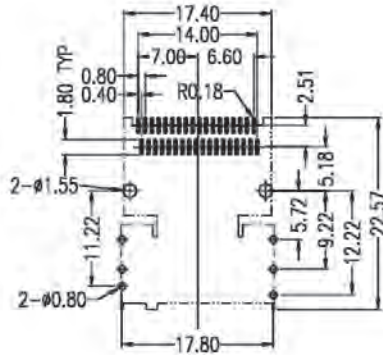
## ORDERING INFORMATION:

**P/N S A T A  $\frac{32}{1}$  -  $\frac{xx}{2}$  M B  $\frac{xx}{3}$   $\frac{xx}{4}$   $\frac{xx}{5}$**

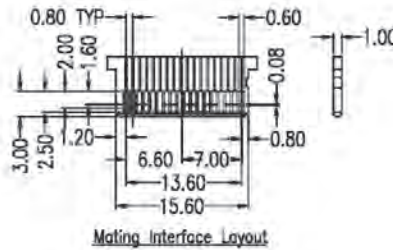
1. NO. OF CONTACTS:  
"32" 32P
2. CONNECTOR CODE:  
"A1" DIM. A/B = 46.00/46.00MM  
"A2" DIM. A/B = 49.81/49.81MM
3. CONTACT TYPE:  
"M" MALE
4. INSULATOR COLOR:  
"B" BLACK
5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD



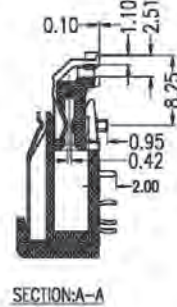
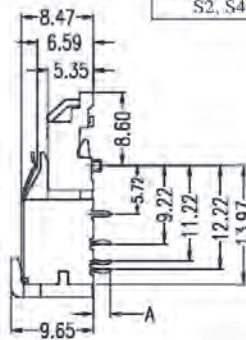
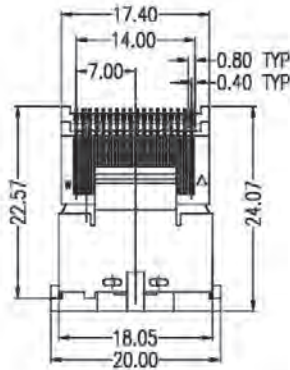
# MINI SAS 36 PIN FEMALE CONNECTOR RIGHT ANGLE SMT TYPE



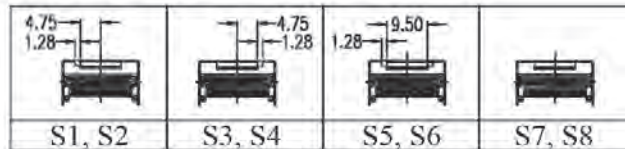
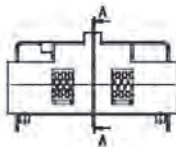
Recommended P.C. Board Layout  
Top View (T=1.60mm)



Mating Interface Layout



Standard	Dim A
S1, S3, S5, S7	2.00
S2, S4, S6, S8	2.80



## SPECIFICATIONS

Current Rating: 0.5 Amperes

Insulation Resistance: 1000MΩ Min

Dielectric Withstanding: 300V AC

Contact Resistance: 30mΩ Max.

Operating Temperature: -40°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0

Contact: Phosphor Bronze

Plating: Au Plating on Contact Area;

Tin (100u" Min.) Plating on Solder

Tail; Ni (40u" Min.) Underplating

overall

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N S A T A  $\frac{36}{1}$  -  $\frac{xx}{2}$  F B  $\frac{xx}{345}$

1. NO. OF CONTACTS:

"36" 36P

2. CONNECTOR CODE:

"S1" LEFT KEY & SHORT POST

"S2" LEFT KEY & LONG POST

"S3" RIGHT KEY & SHORT POST

"S4" RIGHT KEY & LONG POST

"S5" DOUBLE KEY & SHORT POST

"S6" DOUBLE KEY & LONG POST

"S7" NON-KEYED & SHORT POST

"S8" NON-KEYED & LONG POST

3. CONTACT TYPE:

"F" FEMALE

4. INSULATOR COLOR:

"B" BLACK

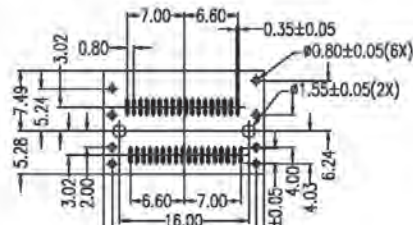
5. CONTACT FINISH:

"01" GOLD FLASH

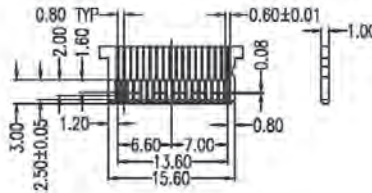
"15" 15 MICROINCH GOLD

"30" 30 MICROINCH GOLD

# MINI SAS 36 PIN FEMALE CONNECTOR STRAIGHT SMT TYPE



Recommended P.C.Board Layout  
Component Side



Mating Interface Layout

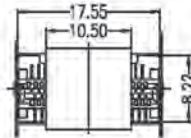
## SPECIFICATIONS

- Current Rating: 0.5 Amperes
- Insulation Resistance: 1000MΩ Min
- Dielectric Withstanding: 300V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -40°C to +85°C

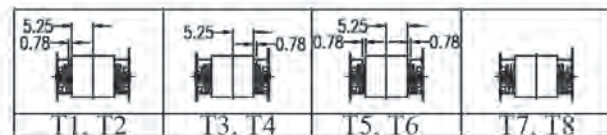
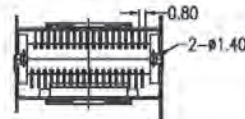
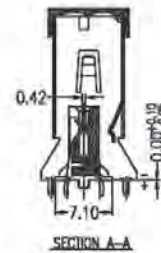
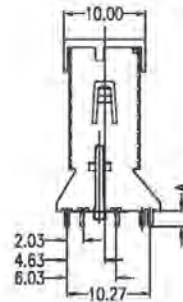
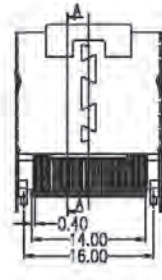
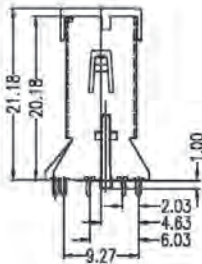
## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Phosphor Bronze
- Plating: Au Plating on Contact Area;  
Tin (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.



Standard	Unit:mm	
	Dim A	PCB Thickness
T1, T3, T5, T7	2.00	1.60
T2, T4, T6, T8	2.80	2.40



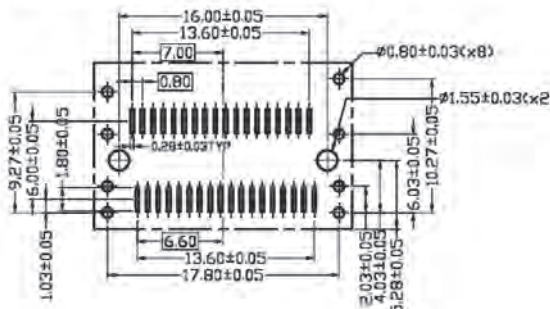
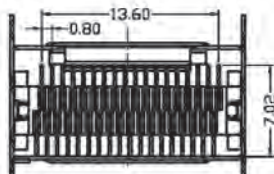
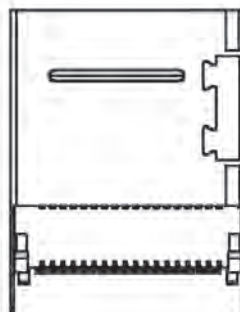
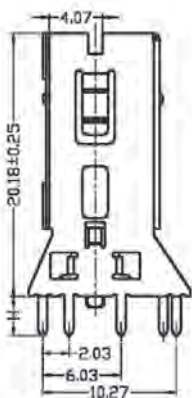
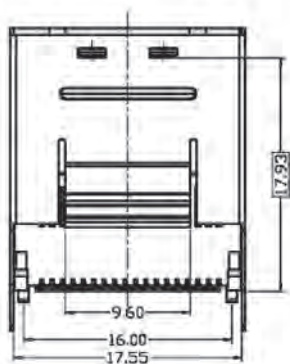
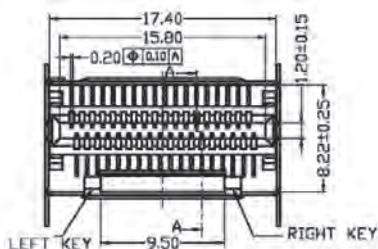
## ORDERING INFORMATION:

P/N S A T A  $\frac{36}{1}$  -  $\frac{xx}{2}$  F B  $\frac{xx}{345}$

- NO. OF CONTACTS:  
"36" 36P
- CONNECTOR CODE:  
"T1" LEFT KEY & SHORT POST  
"T2" LEFT KEY & LONG POST  
"T3" RIGHT KEY & SHORT POST  
"T4" RIGHT KEY & LONG POST  
"T5" DOUBLE KEY & SHORT POST  
"T6" DOUBLE KEY & LONG POST  
"T7" NON-KEYED & SHORT POST  
"T8" NON-KEYED & LONG POST
- CONTACT TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD



# MINI SAS 36 PIN FEMALE CONNECTOR STRAIGHT SMT TYPE



Recommended P.C.Board Layout

## SPECIFICATIONS

Current: 0.5A/Contact

Voltage: 30VAC/Contact

Low Level Contact Resistance: 80 mohm

Operating Temperature: -20°C to +55°C

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

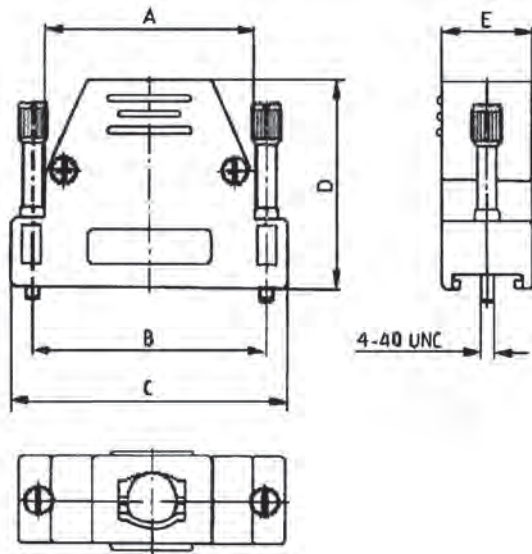
P/N S A T A  $\frac{36}{1}$  -  $\frac{xx}{2}$   $\frac{F}{3}$   $\frac{B}{4}$   $\frac{xx}{5}$

1. NO. OF CONTACTS:  
"36" 36P
2. CONNECTOR CODE:  
"V5" NON-KEYED  
"V6" LEFT KEY  
"V7" RIGHT KEY  
"V8" DOUBLE KEY
3. CONTACT TYPE:  
"F" FEMALE
4. INSULATOR COLOR:  
"B" BLACK

5. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD



## PLASTIC COVER FOR D-SUB CONNECTOR WITH S.R. FIXED ON THE COVER



### MATERIALS

**Insulator:** ABS, UL94HB

**Unmetalized:** In Black

**Metalized:** Chromate Plated

**Unit:** mm

**Tolerance:** +/- 0.3mm

**\*RoHS & REACH compliant.**

**POPULAR**

**5380-xxHBT**

**5381-xxHCT**

No. of Pos.	Dimensions(mm)					
	A	B	C	D	E	OD
09P	20.50	25.00	31.00	29.50	19.00	9.00
15P	28.00	33.30	43.00	37.00	19.00	10.50
25P	41.00	47.00	55.00	53.50	19.00	12.00

### ORDERING INFORMATION:

#### FOR BLACK HOOD:

**P/N 5380 -  $\frac{x}{1}$  H  $\frac{B}{2}$  T**

1. NO. OF POSTIONS:  
09, 15, 25
2. INSULATOR COLOR:  
"B" BLACK

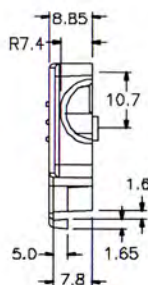
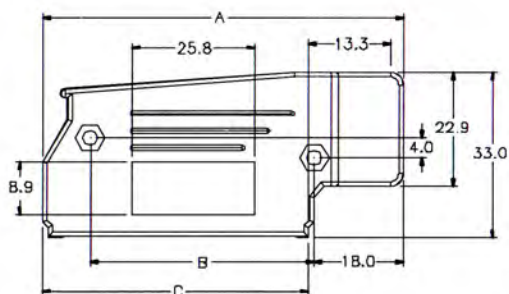
NOTE: THE STRAIN RELIEF CAN BE FIXED ON THE COVER

#### FOR METALIZED HOOD:

**P/N 5381 -  $\frac{x}{1}$  H  $\frac{C}{2}$  T**

1. NO. OF POSTIONS:  
09, 15, 25
2. INSULATOR FINISH:  
"C" CHROMTED PLATED

## PLASTIC HOOD FOR 57 SERIES CENTRONIC CONNECTORS

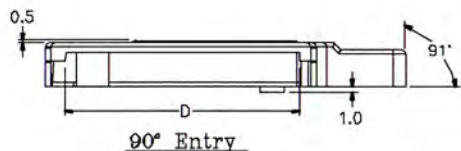


### SPECIFICATIONS

**Current Rating:** 1.0 Ampere  
**Contact Resistance:** 15mΩ Max.  
**Insulation Resistance:** 1000MΩ Min.  
**Dielectric Withstanding:** 500V AC  
**Operating Temperature:** -55°C to +105°C

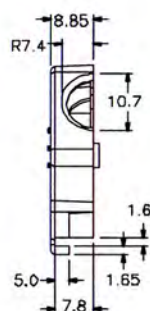
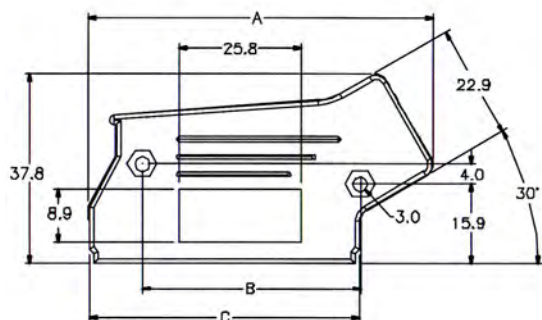
### MATERIALS

**Insulator:** PBT, UL94V-0 Rated  
**Contact:** Phosphor Bronze  
**\*RoHS & REACH compliant.**

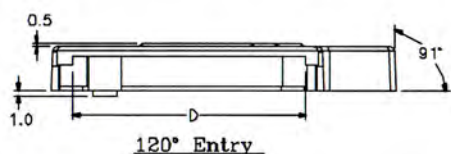
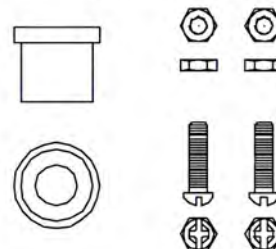


### 5369

Position	90° Entry Dimensions(mm)			
	A±0.13	B±0.1	C±0.13	D±0.13
36	72.4	45.1	54.4	45.6
50	89.4	60.0	71.4	61.2



### Accessories



### 5370



















Position	120° Entry Dimensions(mm)			
	A±0.13	B±0.1	C±0.13	D±0.13
36	68.9	44.0	54.6	45.6
50	85.6	60.0	71.4	61.2

## ORDERING INFORMATION:

P/N 53  $\frac{xx}{1}$  -  $\frac{xxx}{23}$

- ENTRY HOLE DEGREE:  
 "69" 90° ENTRY  
 "70" 120° ENTRY
- NO. OF POSITIONS:  
 36, 50
- INSULATOR COLOR:  
 "A" GRAY  
 "B" BLACK

## PLASTIC COVERS FOR ROUND CABLE TYPE D-SUB. CONNECTORS (1)

 <p>5311-09A 5311-09B 5331-09C FOR Ø7MM</p>	 <p>5311-15A 5311-15B 5331-15C FOR Ø10MM</p>	 <p>5311-25A 5311-25B 5331-25C FOR Ø11MM</p>	 <p>5311-37A 5311-37B 5331-37C FOR Ø14MM</p>	 <p>5311-50A 5311-50B 5331-50C FOR Ø14MM</p>
 <p>5333-09C 5313-09A 5313-09B FOR Ø7MM</p>	 <p>5333-15C 5313-15A 5313-15B FOR Ø10MM</p>	 <p>5333-25C 5313-25A 5313-25B FOR Ø11MM</p>	 <p>5333-37C 5313-37A 5313-37B FOR Ø14MM</p>	 <p>5333-50C 5313-50A 5313-50B FOR Ø14MM</p>
 <p>5316-09A 5316-09B 5336-09C FOR Ø7MM</p>	 <p>5316-15A 5316-15B 5336-15C FOR Ø10MM</p>	 <p>5316-25A 5316-25B 5336-25C FOR Ø11MM</p>	 <p>5316-50A 5316-50B 5336-50C FOR Ø14MM</p>	
 <p>5314-09A 5314-09B 5334-09C FOR Ø7MM</p>	 <p>5314-15A 5314-15B 5334-15C FOR Ø10MM</p>	 <p>5314-25A 5314-25B 5334-25C FOR Ø11MM</p>	 <p>5314-50A 5314-50B 5334-50C FOR Ø14MM</p>	

### ORDERING INFORMATION:

P/N 53  $\frac{xx}{1}$  -  $\frac{xxx}{23}$

1. PLASTIC COVER CODE:  
AS SHOWN ABOVE!
2. NO. OF POSITIONS:  
09, 15, 25, 37, 50
3. INSULATOR COLOR:  
"A" GRAY  
"B" BLACK  
"C" METALIZED  
"V" IVORY

### MATERIALS

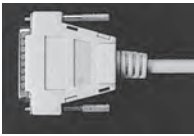
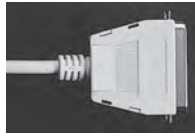

















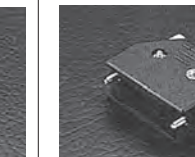




**Insulator:** ABS UL94HB

**METALIZED:** CHROMATE PLATED

\*RoHS & REACH compliant.

## PLASTIC COVERS FOR ROUND CABLE TYPE D-SUB. CONNECTORS (2)

### PLASTIC COVERS FOR QUICK ASSEMBLED CONNECTORS

					
<u>D-SUB.</u> 5362-25V 5362-25A 5362-25B 5363-25C	<u>CENTRONIC</u> 5360-36V 5360-36A 5360-36B 5361-36C	<u>CENTRONIC</u> 5360-50V 5360-50A 5360-50B 5361-50C	5364-09V 5364-09A 5364-09B 5365-09C	5364-15V 5364-15A 5364-15B 5365-15C	5364-25V 5364-25A 5364-25B 5365-25C
					
5321-09A 5321-09B 5341-09C	5321-15A 5321-15B 5341-15C	5321-25A 5321-25B 5341-25C	5321-37A 5321-37B 5341-37C	5321-50A 5321-50B 5341-50C	5317-09A 5317-09B 5337-09C FOR Ø7MM
					
5315-09A 5315-09B 5315-09V 5335-09C	5315-15A 5315-15B 5315-15V 5335-15C	5315-25A 5315-25B 5315-25V 5335-25C	5320-09A 5320-09B 5320-09V 5340-09C	5320-25A 5320-25B 5320-25V 5340-25C	5317-25A 5317-25B 5337-25C
					
5380-09B 5380-09A 5381-09C FOR Ø7MM	5380-15B 5380-15A 5381-15C FOR Ø10MM	5380-25B 5380-25A 5381-25C FOR Ø13.5MM	5380-37B 5380-37A 5381-37C FOR Ø16MM	5380-50B 5380-50A 5381-50C FOR Ø16MM	

### ORDERING INFORMATION:

P/N 53  $\frac{xx}{1}$  -  $\frac{xxx}{23}$

1. PLASTIC COVER CODE:  
AS SHOWN ABOVE!
2. NO. OF POSITIONS:  
09, 15, 25, 36, 37, 50
3. INSULATOR COLOR:  
"A" GRAY  
"B" BLACK  
"C" METALIZED  
"V" IVORY

### MATERIALS

**Insulator:** ABS UL94HB

**METALIZED:** CHROMATE PLATED

\*RoHS & REACH compliant.



## PLASTIC COVERS FOR FLAT CABLE TYPE D-SUB. CONNECTORS

### UNIVERSAL PLASTIC COVERS FOR FLAT & ROUND CABLE

\* Suitable for round/flat cables with diameter up to 12.5mm

\* It can be locked by snap-in thus time is saved



5325-09A  
5325-09B  
FOR Ø8.5MM



5325-15A  
5325-15B  
FOR Ø10.5MM



5325-25A  
5325-25B  
FOR Ø11MM



5325-37A  
5325-37B  
FOR Ø12MM



5325-50A  
5325-50B  
FOR Ø13MM

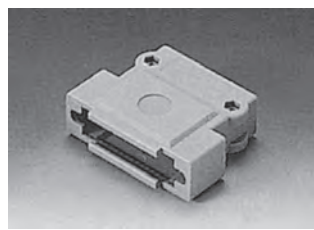
### PLASTIC COVERS FOR FLAT CABLE



5326-09A  
5326-09C



5326-15A  
5326-15C



5326-25A  
5326-25C



5326-37A  
5326-37C

### PLASTIC COVERS FOR FLAT CABLE



5318-09B



5318-15B



5318-2525B  
(25 pin Flat Cable &  
25 pin D-Sub.)



5318-2509B  
(9 pin Flat Cable &  
25 pin D-Sub.)

## ORDERING INFORMATION:

P/N 53  $\frac{xx}{1}$  -  $\frac{xxx}{23}$

1. PLASTIC COVER CODE:  
AS SHOWN ABOVE!
2. NO. OF POSITIONS:  
09, 15, 25, 37, 50
3. INSULATOR COLOR:  
"A" GRAY  
"B" BLACK  
"C" METALIZED  
"V" IVORY

### MATERIALS


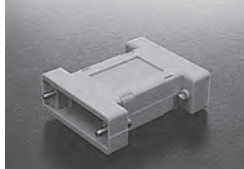







Insulator: ABS UL94HB

METALIZED: CHROMATE PLATED

\*RoHS & REACH compliant.

NOTE: P/N 5326T-xxx = 5326-xxx WITH THUMB SCREWS

## PLASTIC COVERS FOR GENDER CHANGER & MINI TESTER

 <p>GMM-0909A GMM-0909B GMM-0909C GMF-0909A GMF-0909B GMF-0909C GFF-0909A GFF-0909B GFF-0909C</p>	 <p>GMM-1515A GMM-1515B GMM-1515C GMF-1515A GMF-1515B GMF-1515C GFF-1515A GFF-1515B GFF-1515C</p>	 <p>GMM-2525A GMM-2525B GMM-2525C GMF-2525A GMF-2525B GMF-2525C GFF-2525A GFF-2525B GFF-2525C</p>	 <p>HMM-2525A HMM-2525B HMM-2525C HMF-2525A HMF-2525B HMF-2525C HFF-2525A HFF-2525B HFF-2525C</p>	 <p>GMM-3636A GMM-3636B GMM-3636C</p>
<p>ONE SET OF PLASTIC COVER INCLUDING:</p> <p>GMM: 4 SCREWS GMF: 4 SCREWS &amp; 2 NUTS GFM: 4 SCREWS &amp; 2 NUTS GFF: 4 SCREWS &amp; 4 NUTS</p>	 <p>TMM-2525A TMM-2525B TMM-2525C TMF-2525A TMF-2525B TMF-2525C TFF-2525A TFF-2525B TFF-2525C</p>	 <p>GMM-0915A GMM-0915B GMM-0915C GMF-0915A GMF-0915B GMF-0915C GFF-0915A GFF-0915B GFF-0915C GFM-0915A GFM-0915B GFM-0915C</p>	 <p>GMM-0925A GMM-0925B GMM-0925C GMF-0925A GMF-0925B GMF-0925C GFF-0925A GFF-0925B GFF-0925C GFM-0925A GFM-0925B GFM-0925C</p>	 <p>GMM-2536A GMM-2536B GMM-2536C GMF-2536A GMF-2536B GMF-2536C GFF-2536A GFF-2536B GFF-2536C GFM-2536A GFM-2536B GFM-2536C</p>

### ORDERING INFORMATION:

P/N  $\frac{x}{1} \frac{x}{2} \frac{x}{3} - \frac{x}{4} \frac{x}{5} \frac{x}{6}$

1. PLASTIC COVER CODE:  
"G" GENDER CHANGER TYPE 1  
"H" GENDER CHANGER TYPE 2  
"T" MINI TESTER
2. GENDER TYPE:  
"MM" MALE TO MALE  
"MF" MALE TO FEMALE  
"FF" FEMALE TO FEMALE  
"FM" FEMALE TO MALE
3. NO OF POSITION AT SIDE 1:  
09, 15, 25, 36

4. NO OF POSITION AT SIDE 2:  
09, 15, 25, 36
5. INSULATOR COLOR:  
"A" GRAY  
"B" BLACK  
"C" METALIZED


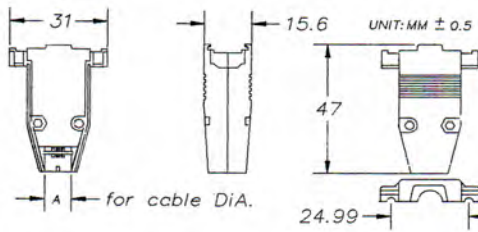
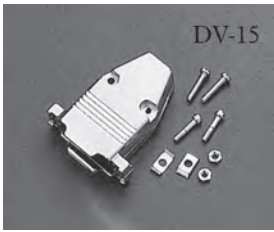
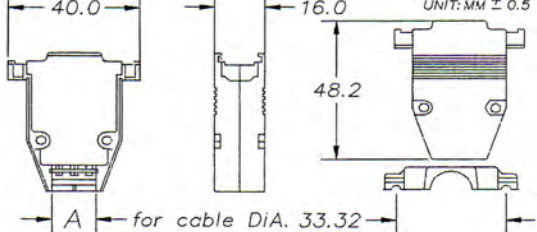

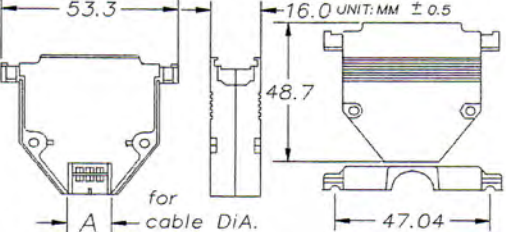
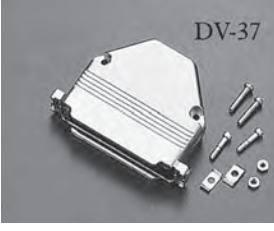
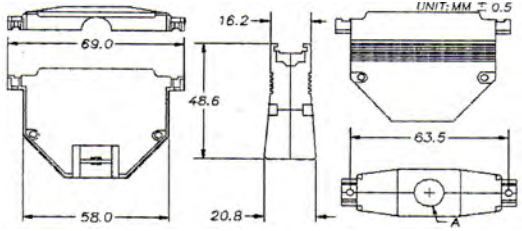

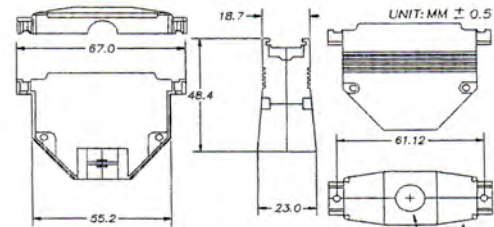
#### MATERIALS

**Insulator:** ABS

**METALIZED:** CHROMATE PLATED

\*RoHS & REACH compliant.

## METAL HOOD FOR D-SUB. CONNECTOR (1)

 <p>DV-09</p>		<p><b>DV-09</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p>DV-15</p>		<p><b>DV-15</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p>DV-25</p>		<p><b>DV-25</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p>DV-37</p>		<p><b>DV-37</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p>DV-50</p>		<p><b>DV-50</b> Material: Zinc Alloy Finished: Nickel Plated</p>

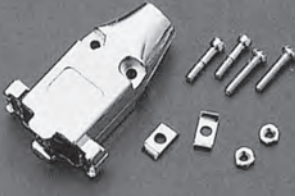
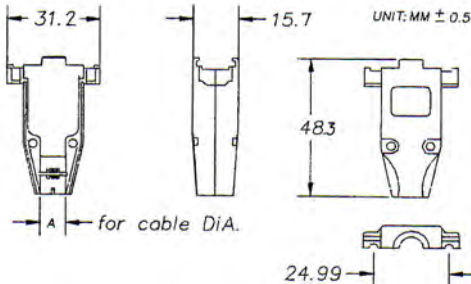
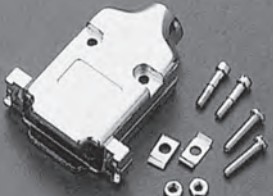
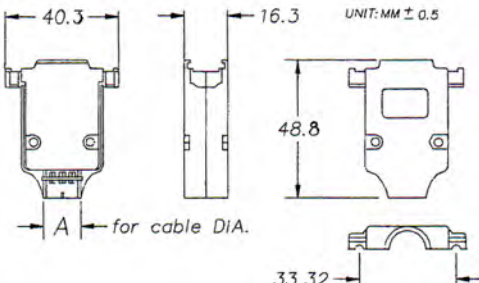
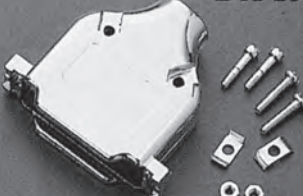
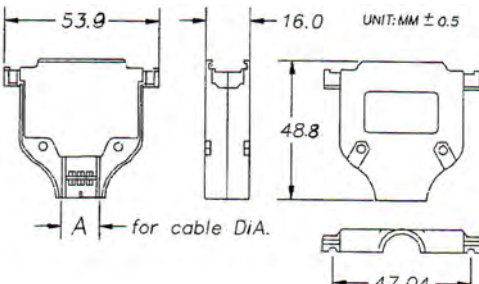
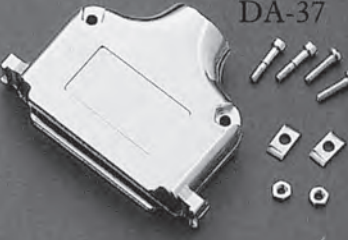
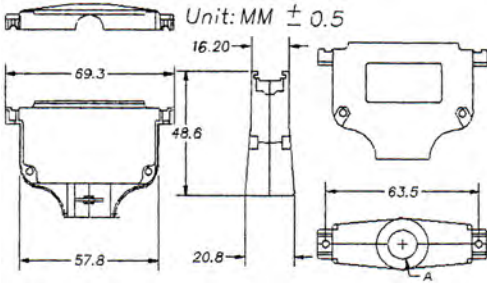
### ORDERING INFORMATION:

P/N DV -  $\frac{xx}{1} \frac{xx}{2} / \frac{xx}{3}$

1. NO. OF POSITIONS:  
09, 15, 25, 37, 50
2. SCREW TYPE:  
" " 2\* UNC4-40 SHORT SCREWS  
"T" 2\* UNC4-40 THUMB SCREWS
3. DIMENSION A (MM):  
FOR DV-09: 4, 6, 6.5, 7, 7.5, 8, 8.5, 9 (STANDARD: 7MM)  
FOR DV-15: 6, 7, 7.5, 8, 9, 10, 12 (STANDARD: 10MM)  
FOR DV-25: 7, 8, 9, 10, 11, 12, 13, 14.5 (STANDARD: 10MM)  
FOR DV-37: 10, 12, 14, 16 (STANDARD: 12MM)  
FOR DV-50: 10, 13, 14.5, 16, 18 (STANDARD: 14.5MM)

NOTE: P/N DV-xxG = DV-xx WITH GROMMET

## METAL HOOD FOR D-SUB. CONNECTOR (2)

 <p>DA-09</p>	 <p>UNIT:MM ± 0.5</p>	<p><b>DA-09</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p>DA-15</p>	 <p>UNIT:MM ± 0.5</p>	<p><b>DA-15</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p>DA-25</p>	 <p>UNIT:MM ± 0.5</p>	<p><b>DA-25</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p>DA-37</p>	 <p>Unit:MM ± 0.5</p>	<p><b>DA-37</b> Material: Zinc Alloy Finished: Nickel Plated</p>


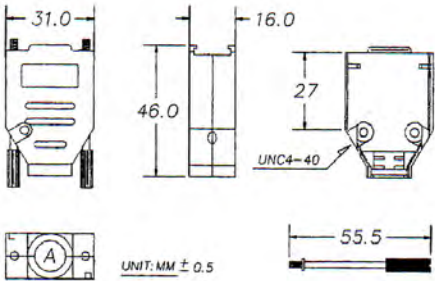

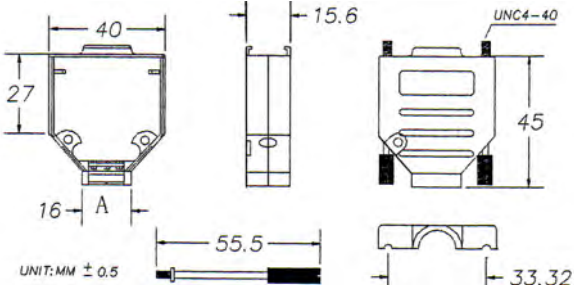
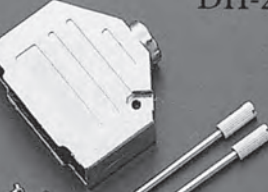
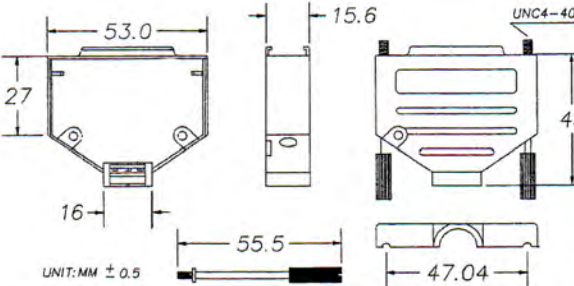

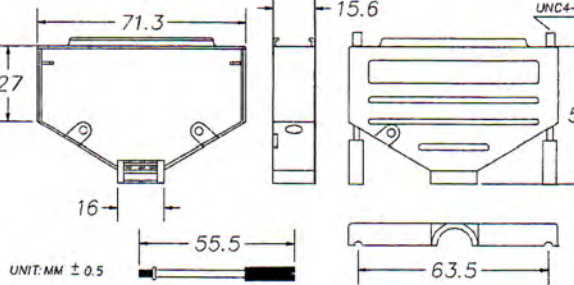
### ORDERING INFORMATION:

P/N DA -  $\frac{xx}{1} \frac{xx}{2} \frac{xx}{3}$

1. NO. OF POSITIONS:  
09, 15, 25, 37
2. SCREW TYPE:  
" " 2\* UNC4-40 SHORT SCREWS  
"T" 2\* UNC4-40 THUMB SCREWS
3. DIMENSION A (MM):  
FOR DA-09: 6, 6.5, 7, 7.5, 8, 8.5, 9 (STANDARD: 7MM)  
FOR DA-15: 7, 8, 9, 10.5 (STANDARD: 10.5MM)  
FOR DA-25: 8, 9, 10, 11, 12 (STANDARD: 10MM)  
FOR DA-37: 9, 11.5, 13.5, 16 (STANDARD: 13.5MM)

NOTE: P/N DA-xxG = DA-xx WITH GROMMET

## METAL HOOD FOR D-SUB. CONNECTOR (3)

 <p>DH-09</p>	 <p>UNIT: MM <math>\pm 0.5</math></p>	<p><b>DH-09</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p>DH-15</p>	 <p>UNIT: MM <math>\pm 0.5</math></p>	<p><b>DH-15</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p>DH-25</p>	 <p>UNIT: MM <math>\pm 0.5</math></p>	<p><b>DH-25</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p>DH-37</p>	 <p>UNIT: MM <math>\pm 0.5</math></p>	<p><b>DH-37</b> Material: Zinc Alloy Finished: Nickel Plated</p>


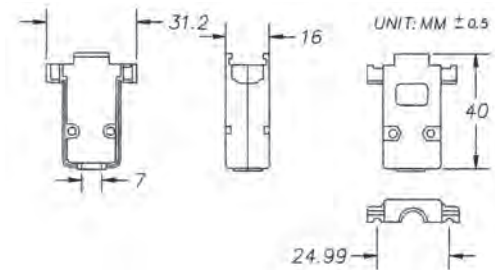
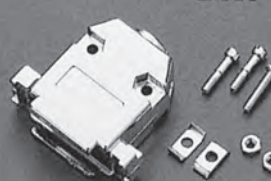
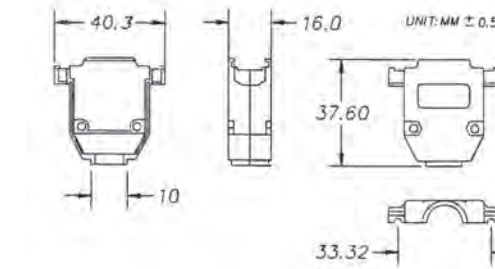
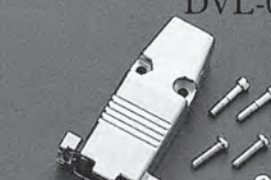
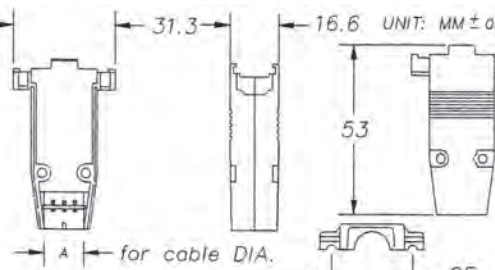

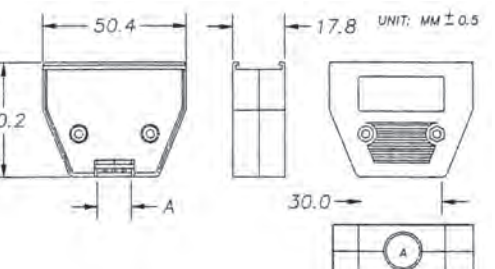
### ORDERING INFORMATION:

P/N DH -  $\frac{xx}{1}$  /  $\frac{xx}{2}$

1. NO. OF POSITIONS:  
09, 15, 25, 37
2. DIMENSION A (MM):  
FOR DH-09: 6, 7.5, 9, 11  
FOR DH-15: 6, 7.5, 9, 11  
FOR DH-25: 7.5, 9, 11, 13  
FOR DH-37: 11, 13.5, 16

NOTE: P/N DH-xxG = DH-xx WITH GROMMET

## METAL HOOD FOR D-SUB. & CENTRONIC CONNECTOR (4)

 <p><b>DAS-09</b></p>	 <p><b>DAS-09/07</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p><b>DAS-15</b></p>	 <p><b>DAS-15/10</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p><b>DVL-09</b></p>	 <p><b>DVL-09</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p><b>DC-36</b></p>	 <p><b>DC-36</b> Material: Zinc Alloy Finished: Nickel Plated</p>

### ORDERING INFORMATION:

#### P/N DAS - 09 / 7

A = 7MM WITH STRAIN RELIEF FOR DB9 CONNECTOR

#### P/N DAS - 15 / 10

A = 10MM WITH STRAIN RELIEF FOR DB15 CONNECTOR


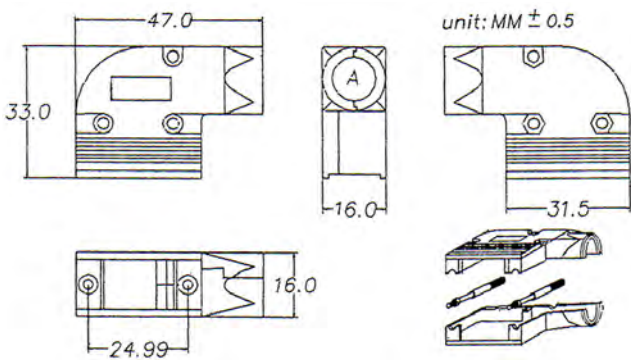
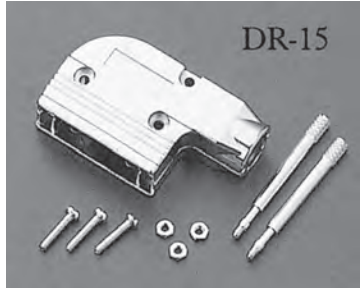
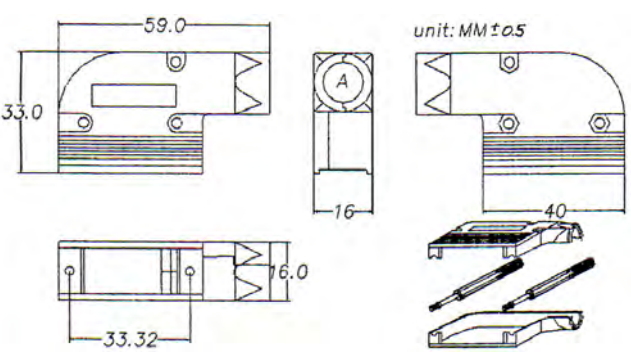

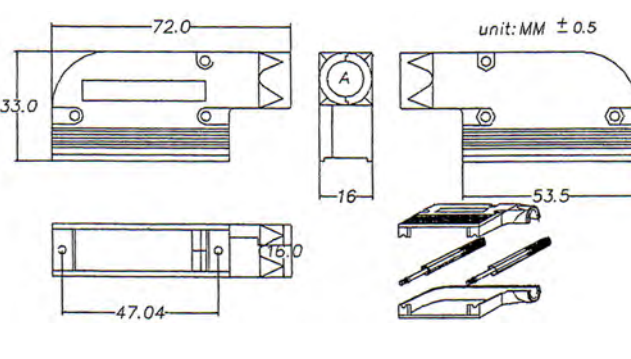
#### P/N DVL - 09 / xx

XX = DIMENSION A (MM): 9, 10, 11 WITH STRAIN RELIEF FOR DB9 CONNECTOR

#### P/N DC - 36 / xx

XX = DIMENSION A (MM): 10, 12 FOR CENTRONIC 36 PIN CONNECTOR

## METAL HOOD FOR D-SUB. CONNECTOR RIGHT ANGLE ENTRY TYPE(5)

 <p><b>DR-09</b></p>	 <p>unit: MM <math>\pm 0.5</math></p> <p><b>DR-09</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p><b>DR-15</b></p>	 <p>unit: MM <math>\pm 0.5</math></p> <p><b>DR-15</b> Material: Zinc Alloy Finished: Nickel Plated</p>
 <p><b>DR-25</b></p>	 <p>unit: MM <math>\pm 0.5</math></p> <p><b>DR-25</b> Material: Zinc Alloy Finished: Nickel Plated</p>

### ORDERING INFORMATION:

P/N DR -  $\frac{xx}{1}$  /  $\frac{xx}{2}$

1. NO. OF POSITIONS:

09, 15, 25

2. DIMENSION A (MM):

FOR DR-09: 6, 7.5, 9, 11 (STANDARD: 11MM)

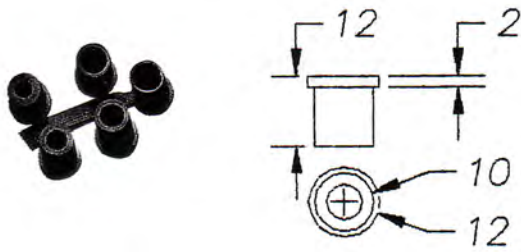
FOR DR-15: 6, 7.5, 9, 11 (STANDARD: 11MM)

FOR DR-25: 7.5, 9, 11, 13 (STANDARD: 11MM)

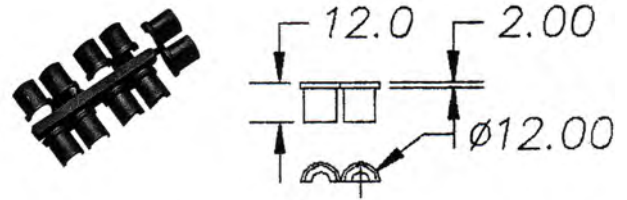
NOTE: P/N DR-xxG = DR-xx WITH GROMMET

## GROMMET FOR D-SUB. METAL HOOD

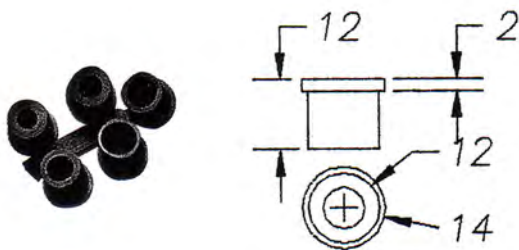
**G09/15**



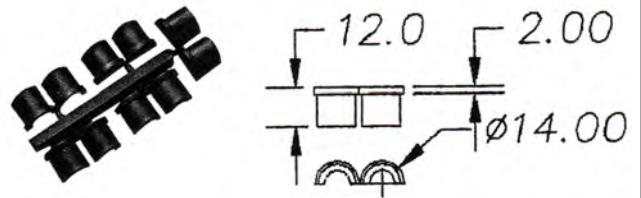
**GH09/15**



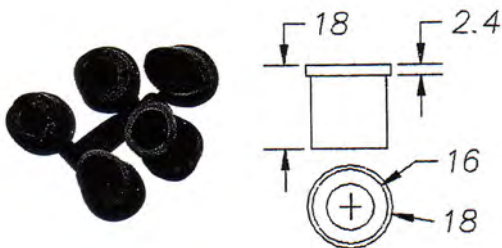
**G25**



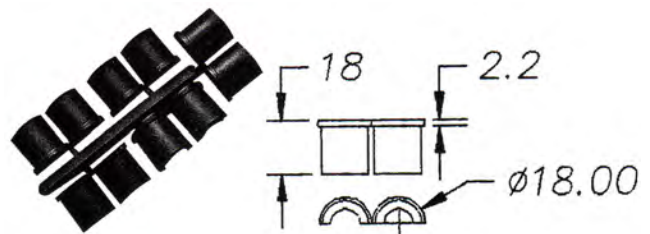
**GH25**



**G50/37**



**GH50/37**



### ORDERING INFORMATION:

GROMMETS: G09/15, G25, G50/37,  
GH09/15, GH25, GH50/37


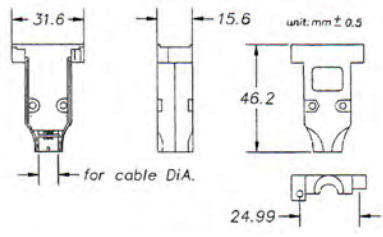

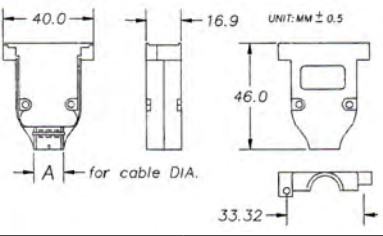

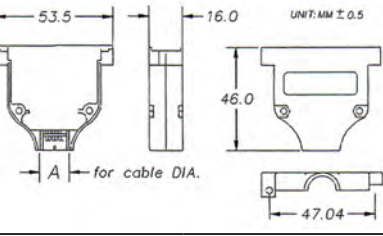

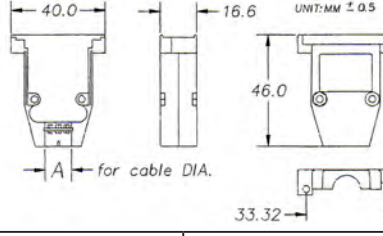




METAL HOOD DV-xx WITH CROMMET:  
DV-xxG: DV-09G, DV-15G, DV-25G, DV-37G,  
DV-50G, DV-09TG, DV-15TG,  
DV-25TG, DV-37TG, DV-50TG

METAL HOOD DA-xx WITH CROMMET:  
DA-xxG: DA-09G, DA-15G, DA-25G, DA-37G,  
DA-09TG, DA-15TG, DA-25TG, DA-37TG

METAL HOOD DH-xx WITH CROMMET:  
DH-xxG: DH-09G, DH-15G, DH-25G, DH-37G



## METAL HOOD FOR ETHERNET D-SUB. CONNECTOR (1)


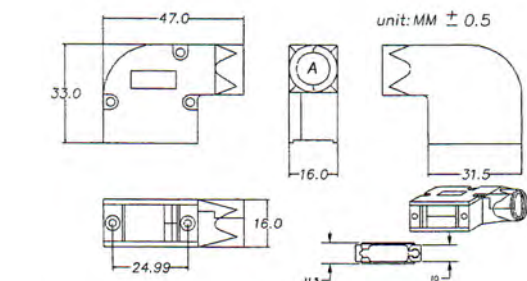

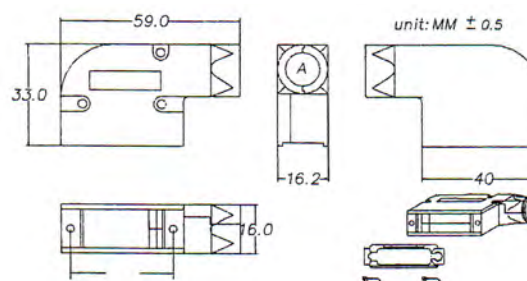
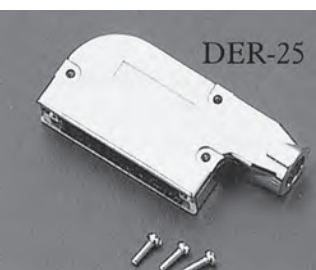
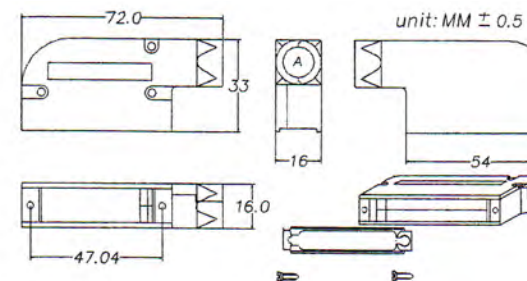




 <p>DE-09</p>	 <p>unit: mm ± 0.5</p> <p>for cable DIA.</p>	<p><b>DE-09</b> Material: Zinc Alloy Finished: Nickel Plated</p>	
 <p>DE-15</p>	 <p>UNIT: MM ± 0.5</p> <p>for cable DIA.</p>	<p><b>DE-15</b> Material: Zinc Alloy Finished: Nickel Plated</p>	
 <p>DE-25</p>	 <p>UNIT: MM ± 0.5</p> <p>for cable DIA.</p>	<p><b>DE-25</b> Material: Zinc Alloy Finished: Nickel Plated</p>	
 <p>DEV-15</p>	 <p>UNIT: MM ± 0.5</p> <p>for cable DIA.</p>	<p><b>DEV-15V</b> Material: Zinc Alloy Finished: Nickel Plated</p>	
<p><b>09A</b></p> 	<p><b>15A</b></p> 	<p><b>25A</b></p> 	<p><b>15B</b></p> 

### ORDERING INFORMATION:

P/N D E  $\frac{x}{1}$  -  $\frac{xx}{2}$  /  $\frac{xx}{3}$

- SLIDE LATCH & SLIDE LOCK POST OPTION:  
" " W/O LATCH & W/O LOCK POST  
"L" WITH SLIDE LATCH 09A, 15A OR 25A  
"P" WITH SLIDE LATCH POST 15B
- NO. OF POSITIONS:  
09, 15, 25
- DIMENSION A (MM):  
FOR DE-09: 6, 7.5, 9, 11 (STANDARD: 11MM)  
FOR DE-15: 6, 7.5, 9, 11 (STANDARD: 11MM)  
FOR DE-25: 7.5, 11, 13 (STANDARD: 11MM)  
FOR DEV-15: P/N DEV<sub>x</sub>-15/xx  
xx = 6, 7.5, 9, 11

## METAL HOOD FOR ETHERNET D-SUB. CONNECTOR (2)

 <p>DER-09</p>	 <p>unit: MM ± 0.5</p>	<p><b>DERL-09</b> Material: Zinc Alloy Finished: Nickel Plated</p>	
 <p>DER-15</p>	 <p>unit: MM ± 0.5</p>	<p><b>DERL-15</b> Material: Zinc Alloy Finished: Nickel Plated</p>	
 <p>DER-25</p>	 <p>unit: MM ± 0.5</p>	<p><b>DERL-25</b> Material: Zinc Alloy Finished: Nickel Plated</p>	
<p><b>09A</b></p> 	<p><b>15A</b></p> 	<p><b>25A</b></p> 	<p><b>15B</b></p> 

### ORDERING INFORMATION:

P/N DER  $\frac{x}{1}$  -  $\frac{xx}{2}$  /  $\frac{xx}{3}$

1. SLIDE LATCH & SLIDE LOCK POST OPTION:

- " " W/O LATCH & W/O LOCK POST
- "L" WITH SLIDE LATCH 09A, 15A OR 25A
- "P" WITH SLIDE LATCH POST 15B

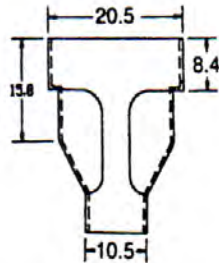
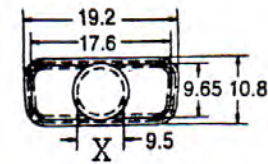
2. NO. OF POSITIONS:

09, 15, 25

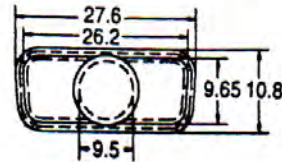
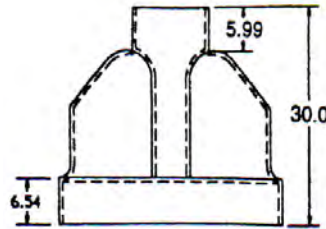
3. DIMENSION A (MM):

- FOR DER-09: 6, 7.5, 11
- FOR DER-15: 6, 7.5, 11
- FOR DER-25: 7.5, 10, 13

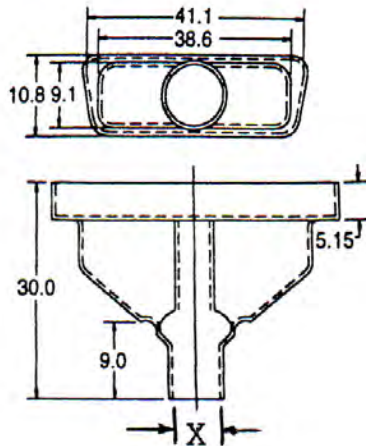
## INNER METAL SHELL FOR MOULDING D-SUB. CONNECTOR



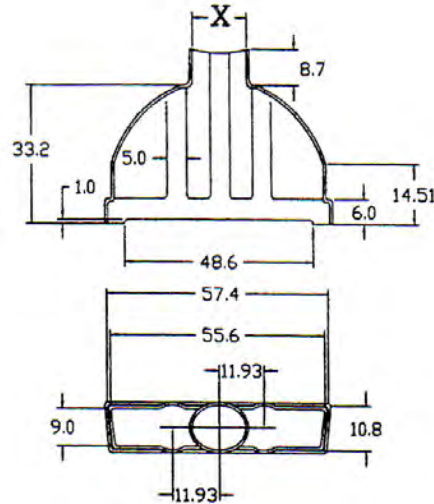
**5357-09M**



**5357-15M**



**5357-25M**



**5357-37M**

### MATERIALS

Hood: SPCC Tin Plated

Unit: mm

Tolerance: +/-0.2mm

\*RoHS & REACH compliant.

### ORDERING INFORMATION:

P/N 5357 -  $\frac{XXX}{1}$  /  $\frac{XXX}{2}$

#### 1. NO. OF CONTACTS:

"09M" DB9

"15M" DB15

"25M" DB25

"37M" DB37

#### 2. CABLE ENTRY HOLE DIAMETER (in MM):

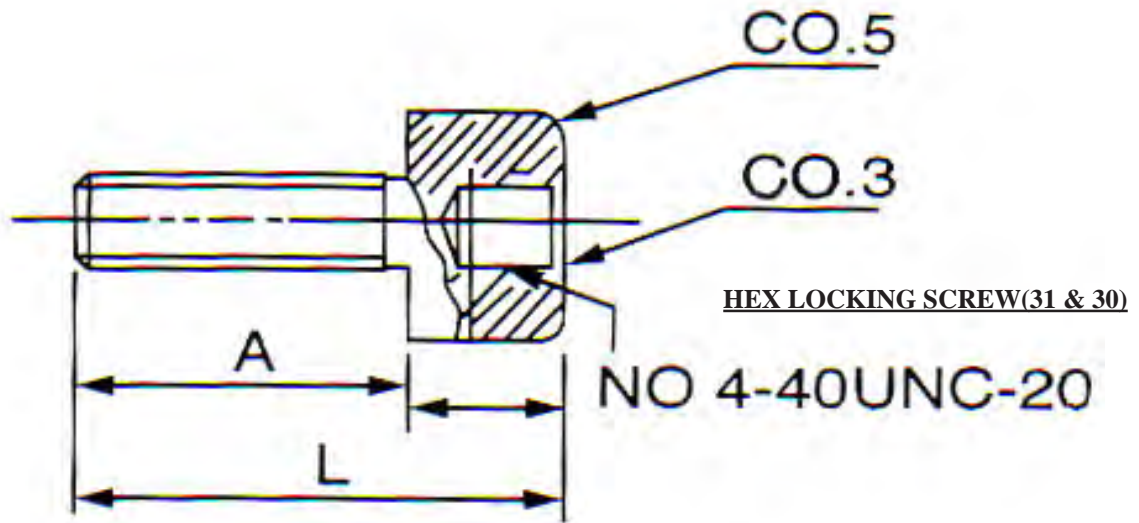
X= 5.5, 7.2, 9.5, 10.8 FOR DB9

X= 7.2, 9.5 FOR DB15

X= 7.2, 9.5, 10.8 FOR DB25

X= 14\* 10.8 FOR DB37

## ACCESSORIES FOR D-SUB. CONNECTOR (1)



L(mm)	A(mm)
10	5.2
11.2	6.35
12.7	7.92
15.7	10.90
17.7	13.00
19.3	14.50
18.8	14.0

### ORDERING INFORMATION:

P/N 53 xx - xxxx

1                    2

#### 1. PACKAGE OPTION:

"73" INDIVIDUAL PACK OF UNIT

"74" BULK PACK

#### 2. HARDWARE IN SET:

24(=24L10), 24L11.2, 24L12.7, 24L15.7

24L17.7, 24L19.3, 24L18.8

23(=23L12.7), 23L10, 23L11.2, 23L15.7

23L17.7, 23L19.3, 23L18.8

HEX LOCKING SCREWS W/O SLOT (2PCS/SET):

31(=31L15.7), 31L10, 31L11.2, 31L12.7,










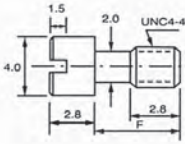


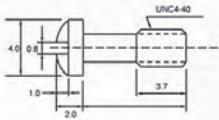

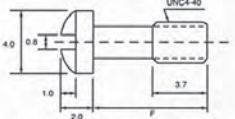

31L17.7, 31L19.3, 31L18.8

HEX LOCKING SCREWS SLOTTED (2PCS/SET):

30(=30L15.7), 30L10, 30L11.2, 30L12.7,

30L17.7, 30L19.3, 30L18.8

## ACCESSORIES FOR D-SUB. CONNECTOR (2)







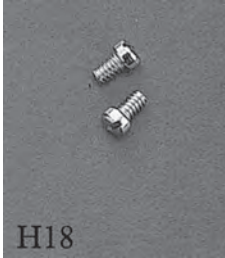


<p><b>4309</b></p> 	<p>21</p> 	<p>22</p> 	<p>22SEM</p> 															
<p><b>4315</b></p> 	<p>41F</p> 	<p>41C</p> 																
<p><b>4325</b></p> 	<p>25</p>  <p>CAPTIVE SCREW &amp; RETAINING CLIP</p>	 <table border="1" data-bbox="1123 904 1433 958"> <thead> <tr> <th>ITEM</th> <th>LENGTH</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>.25/6.35</td> <td></td> </tr> </tbody> </table>		ITEM	LENGTH	F	25	.25/6.35										
ITEM	LENGTH	F																
25	.25/6.35																	
<p><b>453P</b></p> 	<p>28</p>  <p>CAPTIVE SCREW &amp; RETAINING CLIP</p>	 <table border="1" data-bbox="1123 1122 1433 1211"> <thead> <tr> <th>ITEM</th> <th>LENGTH</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>28</td> <td>.30/7.62</td> <td></td> </tr> <tr> <td>28F5</td> <td>.20/5.08</td> <td></td> </tr> <tr> <td>28F6</td> <td>.25/6.35</td> <td></td> </tr> </tbody> </table>		ITEM	LENGTH	F	28	.30/7.62		28F5	.20/5.08		28F6	.25/6.35				
ITEM	LENGTH	F																
28	.30/7.62																	
28F5	.20/5.08																	
28F6	.25/6.35																	
	<p>29</p>  <p>CAPTIVE SCREW &amp; RETAINING CLIP</p>	 <table border="1" data-bbox="1123 1352 1433 1458"> <thead> <tr> <th>ITEM</th> <th>LENGTH</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>29</td> <td>.30/7.62</td> <td></td> </tr> <tr> <td>29F6</td> <td>.25/6.35</td> <td></td> </tr> <tr> <td>29L50</td> <td>.30/7.62</td> <td></td> </tr> <tr> <td>29L50F6</td> <td>.25/6.35</td> <td></td> </tr> </tbody> </table>		ITEM	LENGTH	F	29	.30/7.62		29F6	.25/6.35		29L50	.30/7.62		29L50F6	.25/6.35	
ITEM	LENGTH	F																
29	.30/7.62																	
29F6	.25/6.35																	
29L50	.30/7.62																	
29L50F6	.25/6.35																	
	<p>29L50</p>  <p>CAPTIVE SCREW &amp; RETAINING CLIP FOR 50 POS. ONLY</p>																	

### ORDERING INFORMATION:

P/N 53  $\frac{xx}{1}$  -  $\frac{xxxx}{2}$

- PACKAGE OPTION:  
"73" INDIVIDUAL PACK OF UNIT  
"74" BULK PACK
- HARDWARE IN SET:  
21, 22, 22SEM, 41F, 41C, 25, 28, 28F5,  
28F6, 29, 29F6, 29L50, 29L50F6,  
4309, 4315, 4325, 453P

## ACCESSORIES FOR D-SUB. CONNECTOR (3)

 <p>H5*6 HEX EXTENDER</p> <p>27</p>	 <p>D-LOCK POST</p> <p>H03</p>	 <p>HEX RIVET NUT</p> <p>42L4/42H5.7</p>	 <p>ROUND RIVET NUT</p> <p>48L4/48H5.7</p>
 <p>THUMBSCREW</p> <p>H07-01</p>	 <p>H09E6</p> <p>H09E8      H09C</p>	 <p>H18</p>	 <p>44</p>
 <p>THUMBSCREW</p> <p>H07-02</p>			

### ORDERING INFORMATION:

P/N 5 3 xx - xxxx  
           1          2

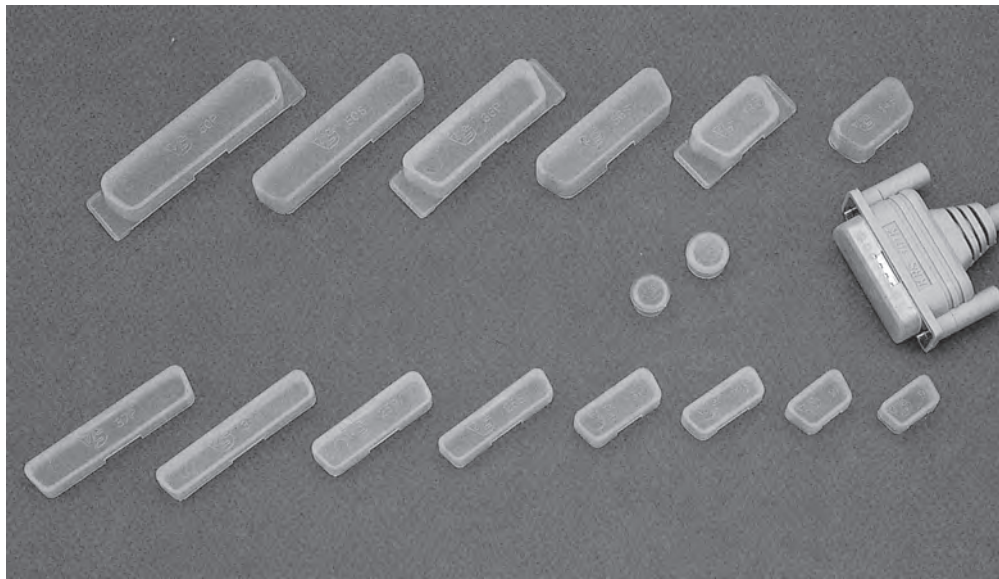
1. PACKAGE OPTION:

"73" INDIVIDUAL PACK OF UNIT  
 "74" BULK PACK

2. HARDWARE IN SET:

27, H03, 42L4(Low Profile), 42H5.7(High Profile),  
 48L4(Low Profile), 48H5.7(High Profile),  
 H07-01(FOR DH METAL HOOD), H07-02(FOR DA, DV METAL HOOD),  
 H07-02S(SLOTTED), H09E6(FOR DB15+DB25),  
 H09E8(FOR DB37+DB50), H18, 44

## DUST COVER



### DUST COVER FOR MALE CONNECTOR

MATERIAL: PE WHITE OR BLACK

<u>TYPE</u>	<u>PART NO.</u>
DB9M	5323-09W
DB15M	5323-15W
DB25M	5323-25W
DB37M	5323-37W
DB50M	5323-50W
CEN50M	5323-CN50W
CEN36M	5323-CN36W
HPDB50M	5323-HPDB50W
HPDB68M	5323-HPDB68W
MINI DIN	5323-MINIDINW
DIN PLUG	5323-DINW
DVI	5323-DVIW
USB/A	5323-UBAW
USB/B	5323-UBBW

NOTE: B = BLACK(FOR USB)  
W = WHITE (FOR OTHERS)

### DUST COVER FOR FEMALE CONNECTOR

MATERIAL: PE WHITE

<u>TYPE</u>	<u>PART NO.</u>
DB9F	5324-09W
DB15F	5324-15W
DB25F	5324-25W
DB37F	5324-37W
DB50F	5324-50W
USB/A	5324-UBAB
USB/B	5324-UBBB

**METAL BRACKET FOR D-SUB. CONNECTOR PROFILE = 120MM (STANDARD)**

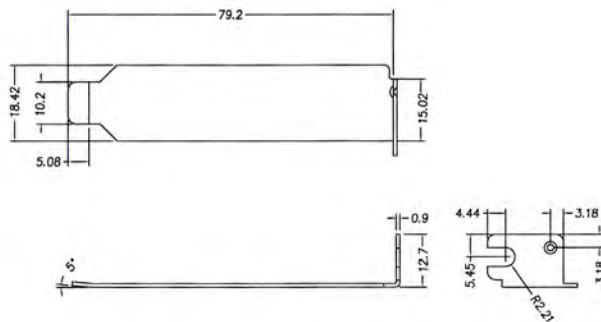
<p><b>5359-00 (WITOUT HOLE)</b></p>	<p><b>5359-09B (FOR 1*DB9)</b></p>
<p><b>5359-0909 (FOR 2*DB9)</b></p>	<p><b>5359-0925 (FOR DB9 &amp; DB25)</b></p>
<p><b>5359-15B (FOR 1*DB15)</b></p>	<p><b>5359-25B (FOR 1*DB25)</b></p>
<p><b>5359-25C (FOR 1*DB25)</b></p>	<p><b>5359-37B (FOR 1*DB37)</b></p>

**ORDERING INFORMATION:**

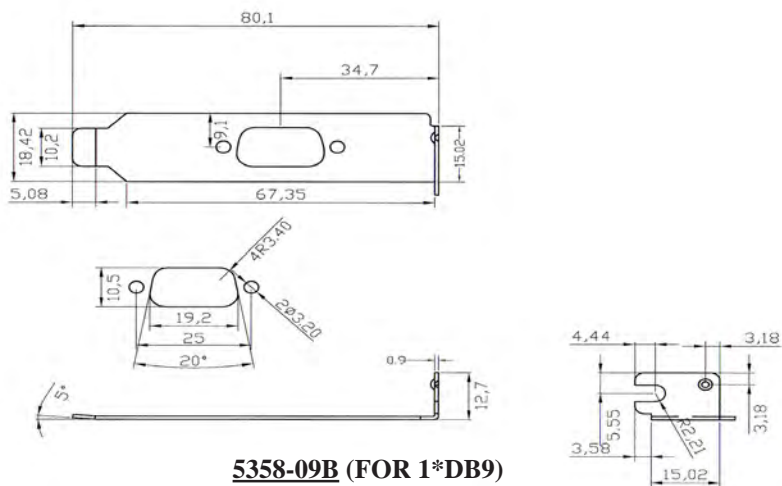
**P/N PLEASE SEE ABOVE!**



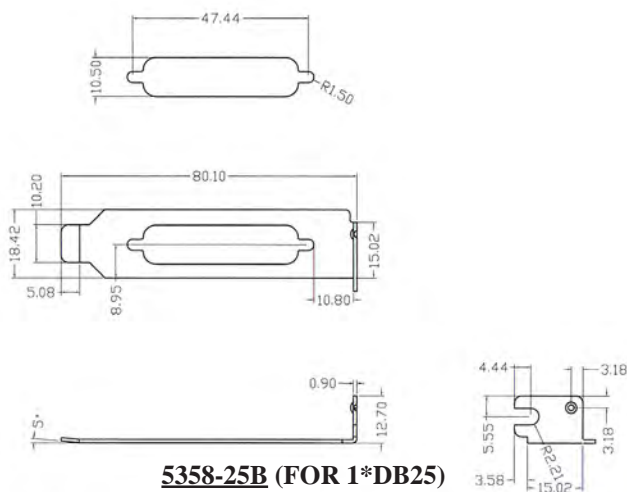
## LOW PROFILE METAL BRACKET FOR D-SUB. CONNECTOR PROFILE = 80MM



**5358-00 (WITHOUT HOLE)**



**5358-09B (FOR 1\*DB9)**



**5358-25B (FOR 1\*DB25)**

### ORDERING INFORMATION:

**P/N PLEASE SEE ABOVE!**

### MATERIALS

Hood: Steel Nickel Plated

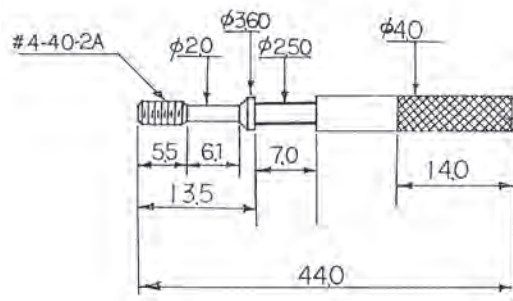
Unit: mm

Tolerance: +/-0.2mm

\*RoHS & REACH compliant.



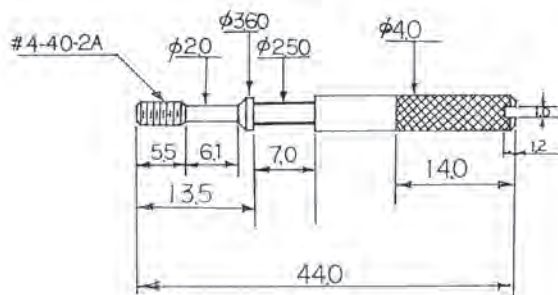
## THUMB SCREWS FOR D-SUB. PLASTIC COVER



### **TS-4X44B**

Material: Steel

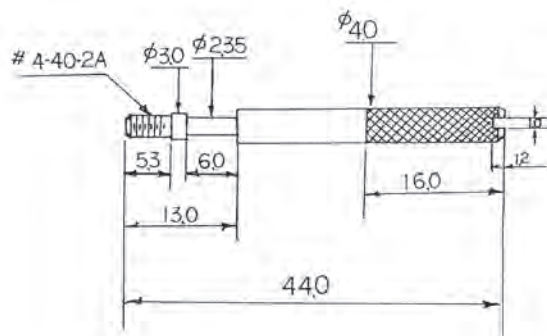
Finished: Nickel Plated



### **TS-4X44BS**

Material: Steel

Finished: Nickel Plated



### **TS-4X44S**

Material: Steel

Finished: Nickel Plated

### **ORDERING INFORMATION:**

#### **P/N T S - 4 X 4 4 B**

THUMB SCREW  $\phi 4.0\text{MM}$  x 44.0MM

#### **P/N T S - 4 X 4 4 B S**

THUMB SCREW  $\phi 4.0\text{MM}$  x 44.0MM WITH SLOT

#### **P/N T S - 4 X 4 4 S**

THUMB SCREW  $\phi 4.0\text{MM}$  x 44.0MM WITH SLOT