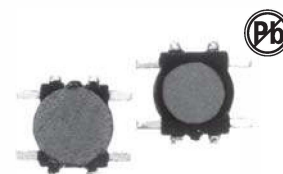


SURFACE-MOUNT POWER INDUCTORS

FASMD4D06-4D08 SERIES



FEATURES:

- Low DC Resistance
- Large current up to 0.95A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

OPTIONS:

- Packaging: Tape & Reel is standard [Qty:2000pcs]
- Bulk packaging available for smaller quantities
- Tolerance: 10% and 5% is standard tighter tolerances available

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

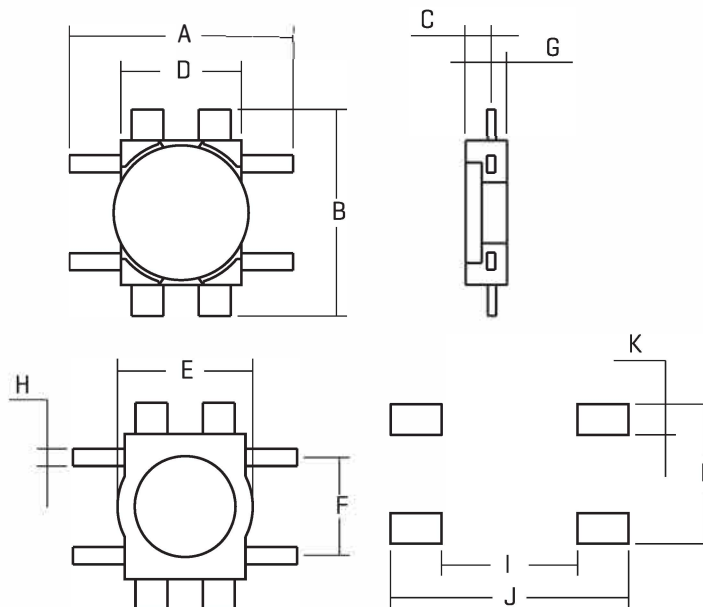
ELECTRICAL CHARACTERISTICS

Part Number	L μ H	Test Freq KHz	DCR ohm Max	IDC Max A	Part Number	L μ H	Test Freq KHz	DCR ohm Max	IDC Max A
FASMD4D06-2R2M	2.2	100	0.116	0.95	FASMD4D08-3R3M	3.3	100	0.060	0.85
FASMD4D06-3R3M	3.3	100	0.174	0.77	FASMD4D08-4R7M	4.7	100	0.194	0.80
FASMD4D06-4R7M	4.7	100	0.216	0.75	FASMD4D08-6R8M	6.8	100	0.276	0.65
FASMD4D06-6R8M	6.8	100	0.296	0.62	FASMD4D08-100M	10	100	0.335	0.57
FASMD4D06-100M	10	100	0.457	0.50	FASMD4D08-150M	15	100	0.508	0.45
FASMD4D06-150M	15	100	0.676	0.40	FASMD4D08-220M	22	100	0.766	0.37
FASMD4D06-220M	22	100	1.066	0.30	FASMD4D08-330M	33	100	1.162	0.28
FASMD4D06-330M	33	100	1.647	0.24	FASMD4D08-470M	47	100	1.658	0.22
FASMD4D06-470M	47	100	2.843	0.18	FASMD4D08-680M	68	100	2.534	0.18

Note: 1. K=±10%, M=±20%, N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

- Inductance Testing: HP4284A
- HP4285A or equivalent
- RDC: QuadTech 1880 Milliohmmete
- Q- HP4342A
- SRF- HP4191A or HP4194A
- Rated Current L value drop 10% typ. at
- I DC against its initial value
- Temperature rise 40°C Max
- Reference ambient temperature
- Solderability: 75% of the lead wire
- Shall be covered
- Soldering Methods: Wave, Reflow
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -55°C to +125°C
- Terminal bending strength: 24.5N Min
- Moisture resistance
- $\Delta L/L \leq \pm 10\%$ $\Delta Q/Q \leq \pm 25\%$



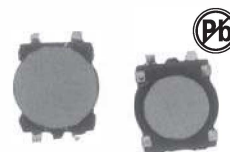
LAND PATTERNS

DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	H	I	J	K	L
FASMD4006	6.5M ax	6.0M ax	0.8M ax	3.5	4.1	3.2	0.4	0.5	4	7	0.9	4.1
FASMD4008	6.2M ax	5.8M ax	1.0M ax	3.5	4.1	3.2	0.4	0.5	4	7	0.9	4.1

Note: All specifications subject to change without notice.

SURFACE-MOUNT POWER INDUCTORS FASMD4D11-4D13 SERIES



FEATURES:

Ferrite Core Structure
Low DC Resistance
Large current up to 0.95A
Excellent Mechanical Strength
High Reliability and Excellent Solderability
Low and square Profile
High heat resistance

OPTIONS:

Packaging:Tape & Reel is standard
(Qty:2000pcs)
Bulk packaging available for smaller quantities
Tolerance:10% and 5% is standard
tighter tolerances available

COMMON APPLICATIONS:

VCRs, Notebook, DC/DC Converters
Video Digital Cameras
Communication System
Automotive Systems Power supplier
LCD PDP Televisions
Hard Disk Drives, Topset, XDSL
Network Systems
Computer Peripheral Equipment

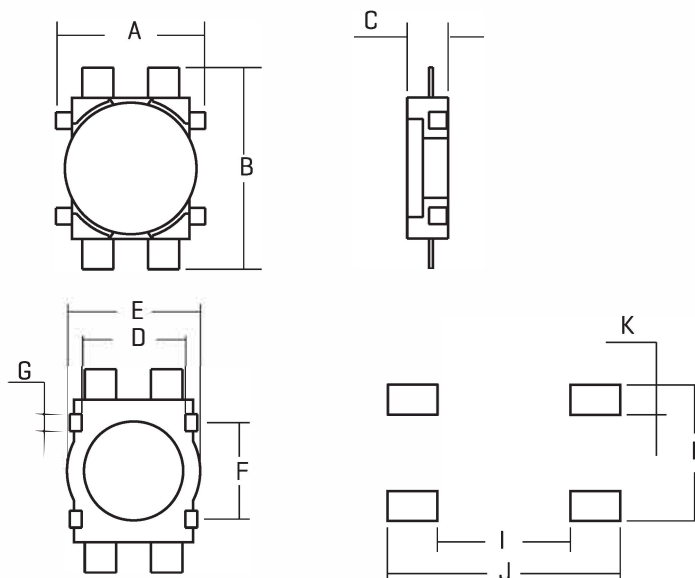
ELECTRICAL CHARACTERISTICS

Part Number	L μ H	Test Freq KHz	DCR ohm Max	IDC Max A	Part Number	L μ H	Test Freq KHz	DCR ohm Max	IDC Max A
FASMD4D11-2R2M	2.2	100	0.116	0.95	FASMD4D13-2R2M	2.2	100	0.160	0.85
FASMD4D11-3R3M	3.3	100	0.174	0.77	FASMD4D13-3R3M	3.3	100	0.194	0.80
FASMD4D11-4R7M	4.7	100	0.216	0.75	FASMD4D13-4R7M	4.7	100	0.276	0.65
FASMD4D11-6R8M	6.8	100	0.296	0.62	FASMD4D13-6R8M	6.8	100	0.335	0.57
FASMD4D11-100M	10	100	0.457	0.50	FASMD4D13-120M	12	100	0.508	0.45
FASMD4D11-150M	15	100	0.676	0.40	FASMD4D13-180M	18	100	0.766	0.37
FASMD4D11-220M	22	100	1.066	0.30	FASMD4D13-330M	33	100	1.162	0.28
FASMD4D11-330M	33	100	1.647	0.24	FASMD4D13-470M	47	100	1.658	0.22
FASMD4D11-470M	47	100	2.843	0.18	FASMD4D13-680M	68	100	2.534	0.18
					FASMD4D13-101M	100	100	3.904	0.17

Note:1.K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Inductance Testing: HP4284A
HP4285A or equivalent
RDC:QuadTech 1880 Milliohmmete
Q- HP4342A
SRF-HP4191A or HP4194A
Rated Current L value drop10%typ.at
I DC against its initial value
Temperature rise 40°C Max
Reference ambient temperature
Solderability: 75% of the lead wire
Shall be covered
Soldering Methods: Wave,Reflow
Operating Temperature:-25°C to +85°C
Storage Temperature:-55°C to +125°C
Terminal bending strength:24.5N Min
Moisture resistance
 $\Delta L/L \leq \pm 10\%$ $\Delta Q/Q \leq \pm 25\%$



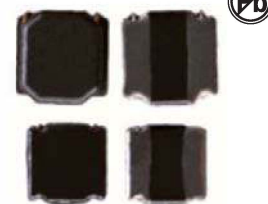
LAND PATTERNS

DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	I	J	K	L
FASMD4D11	4.5Max	6.0Max	1.3Max	2.9	3.7	3.2	0.5	3.0	5.8	0.8	4.1
FASMD4D13	4.4Max	5.8Max	1.45Max	2.9	3.7	3.7	0.5	2.5	5.3	0.8	4.0

Note:All specifications subject to change without notice.

SURFACE-MOUNT POWER INDUCTORS FASNR3010,3012 SERIES



FEATURES:

Low profile, low RDC, high current handling capacities
Magnetically shielded structure that ensures the high-density mounting configurations
Provided in embossed carrier tape packaging for use with automatic mounting machines

OPTIONS:

Ideally used in Portable telephones, PDA, DSC, DC-DC Converter, etc

COMMON APPLICATIONS:

$\frac{SNR}{a} \frac{3010}{b} \frac{1R0}{c} \frac{N}{d}$
a: Series name
b: Product dimensions
c: Inductance Value [1R0: 1.0uH; 100; 10uH; 101: 100uH]
d: Inductance Tolerance [K: 10%; M: 20%; N: 30%]

ELECTRICAL CHARACTERISTICS

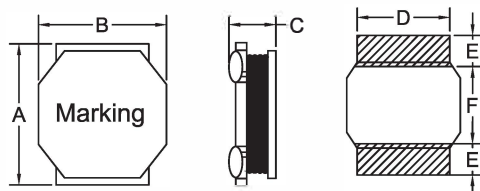
Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR3010-1R0N	1.0	85	1.40
FASNR3010-1R5N	1.5	104	1.27
FASNR3010-2R2N	2.2	143	1.15
FASNR3010-3R3N	3.3	189	0.97
FASNR3010-4R7N	4.7	293	0.75
FASNR3010-6R8N	6.8	397	0.55
FASNR3010-100M	10	520	0.55
FASNR3010-150M	15	850	0.42
FASNR3010-220M	22	1300	0.35
FASNR3010-330M	33	2050	0.29
FASNR3010-470M	47	2535	0.22

Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR3012-1R0N	1.0	60	2.20
FASNR3012-1R5N	1.5	63	1.62
FASNR3012-2R2N	2.2	105	1.20
FASNR3012-3R3N	3.3	140	1.05
FASNR3012-4R7N	4.7	168	0.90
FASNR3012-6R8N	6.8	266	0.75
FASNR3012-100M	10	358	0.60
FASNR3012-150M	15	486	0.45
FASNR3012-220M	22	872	0.42
FASNR3012-330M	33	1182	0.36
FASNR3012-470M	47	1485	0.27
FASNR3012-680M	68	2255	0.24
FASNR3012-101M	100	3861	0.21

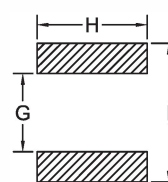
TEST CONDITIONS

L = 8.2uH TEST FREQUENCY AT 100KHz/0.25V.
L > 8.2uH TEST FREQUENCY AT 1KHz/0.25V.

TECHNICAL INFORMATION



PHYSICAL CHARACTERISTICS



DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	H	I
FASNR3010	3.0±0.2	3.0±0.2	1.2 Max	2.5 REF	0.9 REF	1.2 REF	3.5 REF	2.8 REF	0.9 REF
FASNR3012	3.0±0.2	3.0±0.2	1.2 Max	2.5 REF	0.9 REF	1.2 REF	3.5 REF	3.0 REF	0.9 REF

SURFACE-MOUNT POWER INDUCTORS FASNR3015,4010 SERIES



FEATURES:

Low profile, low R_{DC}, high current handling capacities
Magnetically shielded structure that ensures the high-density mounting configurations
Provided in embossed carrier tape packaging for use with automatic mounting machines

OPTIONS:

Ideally used in Portable telephones, PDA, DSC
DC-DC converters, etc

COMMON APPLICATIONS:

$\frac{SNR}{a} \frac{3010}{b} \frac{1R0}{c} \frac{N}{d}$
a: Series name
b: Product dimensions
c: Inductance Value [1R0: 1.0uH; 100; 10uH; 101: 100uH]
d: Inductance Tolerance [K: 10%; M: 20%; N: 30%]

ELECTRICAL CHARACTERISTICS

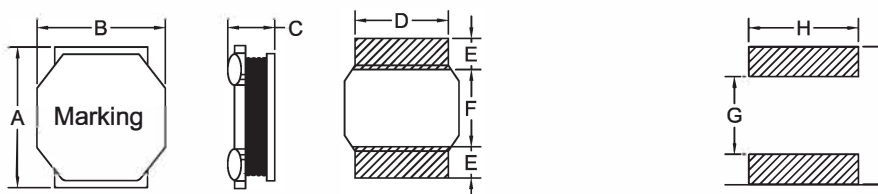
Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]	Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR3015-1R0N	1.0	48	2.32	FASNR4010-1R0N	1.0	92	2.20
FASNR3015-1R5N	1.5	65	2.10	FASNR4010-2R2N	2.2	152	1.60
FASNR3015-2R2N	2.2	78	1.60	FASNR4010-3R3N	3.3	206	1.40
FASNR3015-3R3N	3.3	104	1.30	FASNR4010-4R7N	4.7	286	1.10
FASNR3015-4R7N	4.7	160	1.10	FASNR4010-6R8N	6.8	378	1.00
FASNR3015-6R8N	6.8	234	0.85	FASNR4010-8R2N	8.2	436	0.85
FASNR3015-100M	10	338	0.70	FASNR4010-100M	10	480	0.80
FASNR3015-150M	15	439	0.60	FASNR4010-220M	22	1430	0.50
FASNR3015-220M	22	600	0.52	FASNR4010-470M	47	2389	0.23
FASNR3015-330M	33	1066	0.44				
FASNR3015-470M	47	1600	0.35				

TEST CONDITIONS

L = 8.2uH TEST FREQUENCY AT 100KHz/0.25V.
L > 8.2uH TEST FREQUENCY AT 1KHz/0.25V.

TECHNICAL INFORMATION

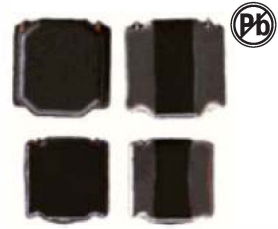
PHYSICAL CHARACTERISTICS



DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	H	I
FASNR3015	3.0±0.2	3.0±0.2	1.5 Max	2.6 REF	0.9 REF	1.2 REF	3.5 REF	2.9 REF	0.9 REF
FASNR4010	4.0±0.2	4.0±0.2	1.15 Max	3.5 REF	1.3 REF	1.4 REF	4.5 REF	3.8 REF	1.1 REF

SURFACE-MOUNT POWER INDUCTORS FASNR4012,4018 SERIES



FEATURES:

Low profile, low R DC, high current handling capacities
Magnetically shielded structure that ensures the
high-density mounting configurations
Provided in embossed carrier tape packaging for use with automatic mounting machines

OPTIONS:

Ideally used in Portable telephones, PDA, DSC
DC-DC Converter, etc

COMMON APPLICATIONS:

SNR $\frac{3010}{a}$ $\frac{1R0}{c}$ $\frac{N}{d}$
a: Series name
b: Product dimensions
c: Inductance Value [1R0: 1.0uH; 100; 10uH; 101: 100uH]
d: Inductance Tolerance [K: 10%; M: 20%; N: 30%]

ELECTRICAL CHARACTERISTICS

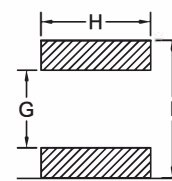
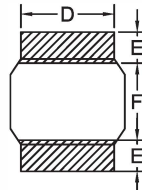
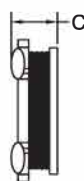
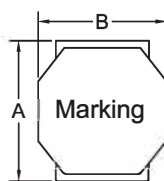
Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR4012-1R0N	1.0	65	2.61
FASNR4012-1R5N	1.5	85	2.10
FASNR4012-2R2N	2.2	104	1.76
FASNR4012-3R3N	3.3	147	1.25
FASNR4012-4R7N	4.7	163	1.15
FASNR4012-6R8N	6.8	260	0.95
FASNR4012-100M	10	345	0.80
FASNR4012-150M	15	442	0.56
FASNR4012-220M	22	611	0.54
FASNR4012-330M	33	1053	0.42
FASNR4012-470M	47	1430	0.35
FASNR4012-680M	68	1950	0.30

Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR4018-1R0N	1.0	33	4.50
FASNR4018-1R2N	1.2	48	3.50
FASNR4018-2R2N	2.2	59	2.70
FASNR4018-3R3N	3.3	84	2.15
FASNR4018-4R7N	4.7	117	2.00
FASNR4018-5R6N	5.6	130	1.65
FASNR4018-6R8N	6.8	143	1.60
FASNR4018-100M	10	234	1.30
FASNR4018-150M	15	325	0.95
FASNR4018-220M	22	468	0.80
FASNR4018-330M	33	689	0.65
FASNR4018-470M	47	845	0.57
FASNR4018-680M	68	1300	0.46
FASNR4018-101M	100	1950	0.41
FASNR4018-151M	150	3120	0.32
FASNR4018-221M	220	4800	0.28

TEST CONDITIONS

L = 8.2uH TEST FREQUENCY AT 100KHz/0.25V.
L > 8.2uH TEST FREQUENCY AT 1KHz/0.25V.

TECHNICAL INFORMATION



DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	H	I
FASNR4012	4.0±0.2	4.0±0.2	1.35 Max	3.5 REF	1.25 REF	1.5 REF	4.5 REF	3.8 REF	1.2 REF
FASNR4018	4.0±0.2	4.0±0.2	1.8 Max	3.5 REF	1.2 REF	1.6 REF	4.5 REF	3.8 REF	1.3 REF

PHYSICAL CHARACTERISTICS

SURFACE-MOUNT POWER INDUCTORS FASNR4020,4026 SERIES



FEATURES:

Low profile, low R_{DC}, high current handling capacities
Magnetically shielded structure that ensures the high-density mounting configurations
Provided in embossed carrier tape packaging for use with automatic mounting machines

OPTIONS:

Ideally used in Portable telephones, PDA, DSC
DC-DC converters, etc

COMMON APPLICATIONS:

$\frac{SNR}{a} \frac{3010}{b} \frac{1R0}{c} \frac{N}{d}$
a: Series name
b: Product dimensions
c: Inductance Value [1R0: 1.0uH; 100; 10uH; 101: 100uH]
d: Inductance Tolerance [K: 10%; M: 20%; N: 30%]

ELECTRICAL CHARACTERISTICS

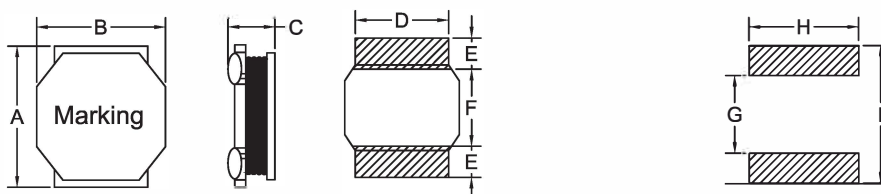
Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]	Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR4020-1R0N	1.0	41.8	4.78	FASNR4026-1R0N	1.0	45	3.30
FASNR4020-1R5N	1.5	50.6	4.45	FASNR4026-2R2N	2.2	60	2.90
FASNR4020-2R2N	2.2	54.6	3.40	FASNR4026-3R3N	3.3	88	2.50
FASNR4020-3R3N	3.3	95.8	3.20	FASNR4026-4R7N	4.7	128	2.25
FASNR4020-4R7N	4.7	102.9	2.35	FASNR4026-6R8N	6.8	145	1.90
FASNR4020-6R8N	6.8	171.2	2.15	FASNR4026-8R2N	8.2	160	1.75
FASNR4020-100M	10	225	1.60	FASNR4026-100M	10	180	1.65
FASNR4020-150M	15	314	1.35	FASNR4026-150M	15	300	1.55
FASNR4020-220M	22	477	1.05	FASNR4026-220M	22	330	1.40
FASNR4020-330M	33	750	0.85	FASNR4026-330M	33	482	1.20
FASNR4020-470M	47	969	0.74	FASNR4026-470M	47	950	1.00
FASNR4020-680M	68	1449	0.61	FASNR4026-680M	68	1300	0.80
FASNR4020-820M	82	1596	0.50				
FASNR4020-101M	100	2210	0.46				

TEST CONDITIONS

L = 8.2uH TEST FREQUENCY AT 100KHz/0.25V.
L > 8.2uH TEST FREQUENCY AT 1KHz/0.25V.

TECHNICAL INFORMATION

PHYSICAL CHARACTERISTICS



DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	H	I
FASNR4020	4.0±0.2	4.0±0.2	2.1 Max	3.5 REF	1.2 REF	1.6 REF	4.5 REF	3.8 REF	1.3 REF
FASNR4026	4.0±0.2	4.0±0.2	2.6 Max	3.5 REF	1.2 REF	1.6 REF	4.5 REF	3.8 REF	1.3 REF

SURFACE-MOUNT POWER INDUCTORS FASNR4030,5012 SERIES



FEATURES:

Low profile, low RDC, high current handling capacities.
Magnetically shielded structure that ensures the high-density mounting configurations.
Provided in embossed carrier tape packaging for use with automatic mounting machines.

OPTIONS:

Ideally used in Portable telephones, PDA, DSC, DC-DC Converter, etc.

COMMON APPLICATIONS:

SNR $\frac{3010}{a}$ $\frac{1R0}{b}$ $\frac{N}{c}$ $\frac{N}{d}$
a: Series name
b: Product dimensions
c: Inductance Value [1R0: 1.0uH; 100; 10uH; 101: 100uH]
d: Inductance Tolerance [K: 10%; M: 20%; N: 30%]

ELECTRICAL CHARACTERISTICS

Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR4030-1R0N	1.0	28.6	5.00
FASNR4030-1R5N	1.5	42	4.80
FASNR4030-2R2N	2.2	46	4.50
FASNR4030-3R3N	3.3	65	3.00
FASNR4030-4R7N	4.7	78	2.90
FASNR4030-6R8N	6.8	130	2.20
FASNR4030-100M	10	156	2.00
FASNR4030-150M	15	260	1.70
FASNR4030-220M	22	293	1.30
FASNR4030-330M	33	468	1.10
FASNR4030-470M	47	598	0.98
FASNR4030-560M	56	685	0.88
FASNR4030-680M	68	1087	0.77
FASNR4030-101M	100	1443	0.70
FASNR4030-151M	150	1820	0.50
FASNR4030-220M	220	4550	0.33

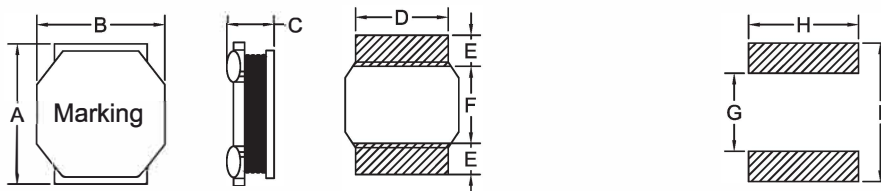
Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR5012-1R0N	1.0	78	4.00
FASNR5012-1R5N	1.5	85	3.20
FASNR5012-2R2N	2.2	120	3.10
FASNR5012-3R3N	3.3	200	2.20
FASNR5012-4R7N	4.7	230	1.98
FASNR5012-6R8N	6.8	390	1.50
FASNR5012-100M	10	624	1.40
FASNR5012-150M	15	804	1.20
FASNR5012-220M	22	1300	1.10

TEST CONDITIONS

L = 8.2uH TEST FREQUENCY AT 100KHz/0.25V.
L > 8.2uH TEST FREQUENCY AT 1KHz/0.25V.

TECHNICAL INFORMATION

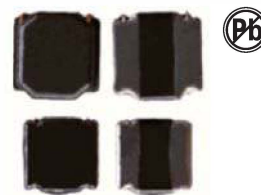
PHYSICAL CHARACTERISTICS



DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	H	I
FASNR4030	4.0±0.2	4.0±0.2	3.0 Max	3.5 REF	1.35 REF	1.3 REF	4.5 REF	3.8 REF	1.0 REF
FASNR5012	5.0±0.2	5.0±0.2	1.3 Max	4.0 REF	1.5 REF	2.0 REF	5.5 REF	4.3 REF	1.7 REF

SURFACE-MOUNT POWER INDUCTORS FASNR5020,5040 SERIES



FEATURES:

Low profile, low R DC, high current handling capacities
Magnetically shielded structure that ensures the high-density mounting configurations
Provided in embossed carrier tape packaging for use with automatic mounting machines

OPTIONS:

Ideally used in Portable telephones, PDA, DSC
DC-DC Converter, etc

COMMON APPLICATIONS:

SNR $\frac{3010}{a}$ $\frac{1R0}{b}$ $\frac{N}{c}$ $\frac{N}{d}$
a: Series name
b: Product dimensions
c: Inductance Value [1R0: 1.0uH; 100; 10uH; 101: 100uH]
d: Inductance Tolerance [K: 10%; M: 20%; N: 30%]

ELECTRICAL CHARACTERISTICS

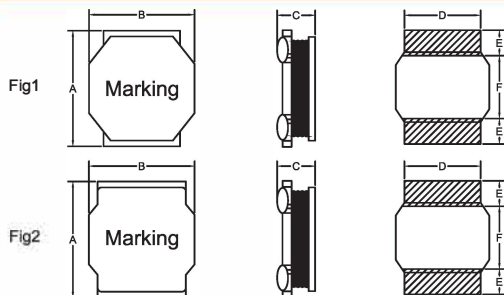
Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR5020-1R0N	1.0	26	4.33
FASNR5020-1R5N	1.5	34	4.10
FASNR5020-2R2N	2.2	50	3.60
FASNR5020-3R3N	3.3	59	3.00
FASNR5020-4R7N	4.7	78	2.50
FASNR5020-6R8N	6.8	108	2.05
FASNR5020-100M	10	156	1.44
FASNR5020-150M	15	234	1.40
FASNR5020-220M	22	294	1.15
FASNR5020-270M	27	390	1.05
FASNR5020-330M	33	465	1.00
FASNR5020-470M	47	657	0.82
FASNR5020-680M	68	835	0.59
FASNR5020-101M	100	1328	0.55
FASNR5020-221M	220	2860	0.28
FASNR5020-102K	1000	18200	0.10

Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR5040-1R0N	1.0	18	7.35
FASNR5040-1R5N	1.5	28	5.00
FASNR5040-2R2N	2.2	28	4.90
FASNR5040-3R3N	3.3	34	3.95
FASNR5040-4R7N	4.7	42	3.50
FASNR5040-6R8N	6.8	59	2.90
FASNR5040-100M	10	78	2.30
FASNR5040-150M	15	104	2.00
FASNR5040-220M	22	169	1.60
FASNR5040-270M	27	208	1.40
FASNR5040-330M	33	234	1.30
FASNR5040-470M	47	403	1.02
FASNR5040-560M	56	442	1.00
FASNR5040-680M	68	650	0.85
FASNR5040-101M	100	728	0.66
FASNR5040-221M	220	2340	0.40

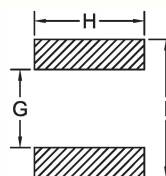
TEST CONDITIONS

L = 8.2uH TEST FREQUENCY AT 100KHz/0.25V.
L > 8.2uH TEST FREQUENCY AT 1KHz/0.25V.

TECHNICAL INFORMATION



PHYSICAL CHARACTERISTICS



DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	H	I	FIG
FASNR 5020	5.0±0.2	5.0±0.2	2.0 Max	4.0 REF	1.35 REF	2.3 REF	5.5 REF	4.3 REF	2.0 REF	2
FASNR 5040	5.0±0.2	5.0±0.2	4.0 Max	4.0 REF	1.5 REF	2.0 REF	5.5 REF	4.3 REF	1.7 REF	1

SURFACE-MOUNT POWER INDUCTORS FASNR5045,6012 SERIES



FEATURES:

Low profile, low RDC, high current handling capacities
Magnetically shielded structure that ensures the high-density mounting configurations
Provided in embossed carrier tape packaging for use with automatic mounting machines

OPTIONS:

Ideally used in Portable telephones, PDA, DSC DC-DC Converter, etc

COMMON APPLICATIONS:

SNR $\frac{3010}{a}$ $\frac{1R0}{b}$ $\frac{N}{c}$ $\frac{N}{d}$

a: Series name

b: Product dimensions

c: Inductance Value [1R0: 1.0uH; 100; 10uH; 101: 100uH]

d: Inductance Tolerance [K: 10%; M: 20%; N: 30%]

ELECTRICAL CHARACTERISTICS

Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR5045-1R0N	1.0	20	6.00
FASNR5045-1R5N	1.5	21	5.80
FASNR5045-2R2N	2.2	22	5.00
FASNR5045-3R3N	3.3	29	4.00
FASNR5045-4R7N	4.7	34	3.30
FASNR5045-220M	22	170	1.75
FASNR5045-151M	150	1700	0.55
FASNR5045-221M	220	1950	0.50
FASNR5045-471M	470	4300	0.20

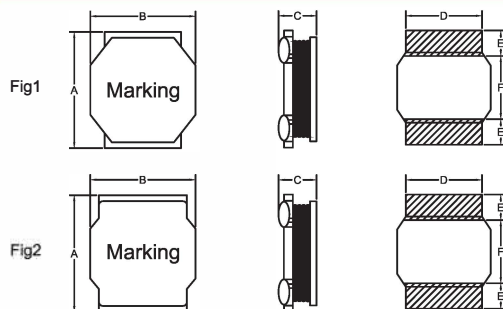
Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR6012-3R3N	3.3	130	1.65
FASNR6012-6R8N	6.8	243	1.30
FASNR6012-100M	10	270	1.00

TEST CONDITIONS

L = 8.2uH TEST FREQUENCY AT 100KHz/0.25V.

L > 8.2uH TEST FREQUENCY AT 1KHz/0.25V.

TECHNICAL INFORMATION



PHYSICAL CHARACTERISTICS

DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	H	I	FIG
FASNR5045	5.0±0.2	5.0±0.2	4.5 Max	4.0 REF	1.5 REF	2.0 REF	5.5 REF	4.3 REF	1.7 REF	1
FASNR6012	6.0±0.2	6.0±0.2	1.3 Max	5.0 REF	1.65 REF	2.7 REF	6.5 REF	5.3 REF	2.4 REF	2



SURFACE-MOUNT POWER INDUCTORS FASNR6020,6028 SERIES

FEATURES:

Low profile, low RDC, high current handling capacities
Magnetically shielded structure that ensures the high-density mounting configurations
Provided in embossed carrier tape packaging for use with automatic mounting machines

OPTIONS:

Ideally used in Portable telephones, PDA, DSC
DC-DC converters, etc

COMMON APPLICATIONS:

SNR $\frac{3010}{a}$ $\frac{1R0}{c}$ $\frac{N}{d}$
a: Series name
b: Product dimensions
c: Inductance Value [1R0:1.0uH;100:10uH;101:100uH]
d: Inductance Tolerance [K:10%;M:20%;N:30%]

ELECTRICAL CHARACTERISTICS

Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR6020-1R0N	1.0	28	4.27
FASNR6020-1R5N	1.5	35	4.20
FASNR6020-2R2N	2.2	45	3.20
FASNR6020-3R3N	3.3	46	3.15
FASNR6020-4R7N	4.7	90	2.80
FASNR6020-6R8N	6.8	140	2.20
FASNR6020-100M	10	175	185
FASNR6020-120M	12	190	1.70
FASNR6020-150M	15	200	1.35
FASNR6020-220M	22	280	1.29
FASNR6020-330M	33	400	1.00
FASNR6020-470M	47	650	0.90
FASNR6020-680M	68	950	0.65
FASNR6020-101M	100	1430	0.50

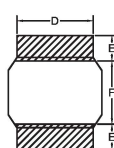
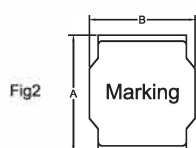
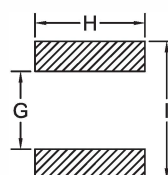
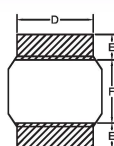
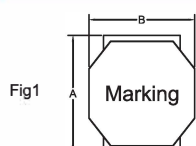
Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR6028-1R0N	1.0	20	5.75
FASNR6028-1R5N	1.5	25	5.25
FASNR6028-2R2M	2.2	28	5.10
FASNR6028-3R3M	3.3	40	3.80
FASNR6028-4R7M	4.7	45	3.70
FASNR6028-5R6M	5.6	60	3.15
FASNR6028-6R8M	6.8	65	3.00
FASNR6028-100M	10	85	2.50
FASNR6028-120M	12	96	2.00
FASNR6028-150M	15	125	2.00
FASNR6028-220M	22	185	1.45
FASNR6028-270M	27	210	1.50
FASNR6028-330M	33	260	1.20
FASNR6028-470M	47	410	1.15
FASNR6028-560M	56	420	0.85
FASNR6028-680M	68	546	0.85
FASNR6028-820M	82	680	0.80
FASNR6028-101M	100	750	0.750
FASNR6028-151M	150	860	0.50
FASNR6028-331M	330	2400	0.27
FASNR6028-471M	470	3500	0.23
FASNR6028-102M	1000	7800	0.20

TEST CONDITIONS

L = 82uH TEST FREQUENCY AT 100KHz/0.25V.
L > 82uH TEST FREQUENCY AT 1KHz/0.25V.

TECHNICAL INFORMATION

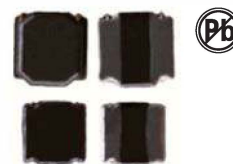
PHYSICAL CHARACTERISTICS



DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	H	I	FIG
FASNR6020	6.0±0.2	6.0±0.2	2.0 Max	5.0 REF	1.65 REF	2.7 REF	6.5 REF	5.3 REF	2.4 REF	1
FASNR6028	6.0±0.2	6.0±0.2	3.0 Max	5.0 REF	1.85 REF	2.3 REF	6.5 REF	5.3 REF	2.0 REF	2

SURFACE-MOUNT POWER INDUCTORS FASNR6045,6050 SERIES



FEATURES:

Low profile, low RDC, high current handling capacities
Magnetically shielded structure that ensures the
high-density mounting configurations
Provided in embossed carrier tape packaging for use with automatic mounting machines

OPTIONS:

Ideally used in Portable telephones, PDA, DSC, DC-DC Converter, etc

COMMON APPLICATIONS:

SNR $\frac{3010}{a}$ $\frac{1R0}{b}$ $\frac{N}{c}$ $\frac{N}{d}$
a: Series name
b: Product dimensions
c: Inductance Value [1R0:1.0uH;100;10uH;101:100uH]
d: Inductance Tolerance [K:10%;M:20%;N:30%]

ELECTRICAL CHARACTERISTICS

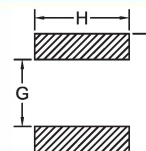
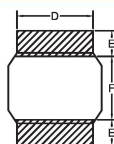
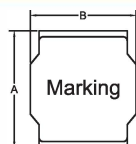
Part Number	Inductance (uH)	DCR (mΩ) Max	Isat (A)
FASNR6045-1R0N	1.0	14.3	9.85
FASNR6045-1R5N	1.5	15.6	9.00
FASNR6045-1R8N	1.8	23.4	7.00
FASNR6045-2R2N	2.2	23.4	6.90
FASNR6045-3R3N	3.3	27.3	5.90
FASNR6045-4R7N	4.7	33.8	5.00
FASNR6045-5R6N	5.6	36.4	4.27
FASNR6045-6R8N	6.8	40.3	3.90
FASNR6045-8R2N	8.2	59.8	3.30
FASNR6045-100M	10	59.8	3.30
FASNR6045-120M	12	78	2.80
FASNR6045-150M	15	85	2.58
FASNR6045-220M	22	150	2.08
FASNR6045-270M	27	156	1.90
FASNR6045-330M	33	182	1.65
FASNR6045-470M	47	260	1.44
FASNR6045-680M	68	377	1.40
FASNR6045-101M	100	541	0.98
FASNR6045-121M	120	606	0.88
FASNR6045-151M	150	754	0.80
FASNR6045-221M	220	1044	0.72
FASNR6045-331M	330	2600	0.50
FASNR6045-102K	1000	6760	0.24

Part Number	Inductance (uH)	DCR (mΩ) Max	Isat (A)
FASNR6050-2R2M	2.2	20	8.50
FASNR6050-3R3M	3.3	26	7.20
FASNR6050-4R7M	4.7	36	6.40
FASNR6050-6R8M	6.8	46	5.20
FASNR6050-100M	10	60	4.20
FASNR6050-150M	15	90	3.30
FASNR6050-220M	22	120	3.10
FASNR6050-330M	33	175	2.20

TEST CONDITIONS

L = 82uH TEST FREQUENCY AT 100KHz/0.25V.
L > 82uH TEST FREQUENCY AT 1KHz/0.25V.

TECHNICAL INFORMATION



DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	H	I
FASNR6045	6.0±0.2	6.0±0.2	4.5Max	5.0 REF	1.65 REF	2.7 REF	6.5 REF	5.3 REF	2.4 REF
FASNR6050	6.0±0.2	6.0±0.2	5.0Max	5.0 REF	1.85 REF	2.3 REF	6.5 REF	5.3 REF	2.0 REF

PHYSICAL CHARACTERISTICS

SURFACE-MOUNT POWER INDUCTORS FASNR6060,8040 SERIES



FEATURES:

Low profile, low RDC, high current handling capacities
Magnetically shielded structure that ensures the high-density mounting configurations
Provided in embossed carrier tape packaging for use with automatic mounting machines

OPTIONS:

Ideally used in Portable telephones, PDA, DSC, DC-DC converter, etc

COMMON APPLICATIONS:

SNR $\frac{3}{a}$ $\frac{010}{b}$ $\frac{1R0}{c}$ $\frac{N}{d}$
a: Series name
b: Product dimensions
c: Inductance Value [1R0: 1.0uH; 100: 10uH; 101: 100uH]
d: Inductance Tolerance [K: 10%; M: 20%; N: 30%]

ELECTRICAL CHARACTERISTICS

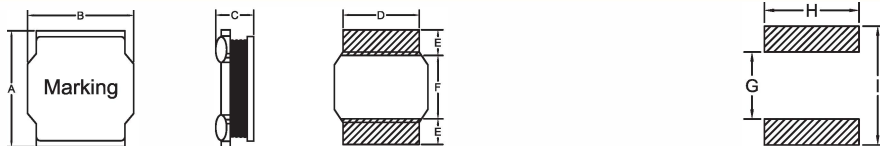
Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR6060-1R0N	1.0	10	10.0
FASNR6060-2R0N	2.0	20	8.80
FASNR6060-2R2N	2.2	20	8.80
FASNR6060-3R3N	3.3	25	7.50
FASNR6060-4R7N	4.7	32.5	6.80
FASNR6060-6R8N	6.8	40	5.90
FASNR6060-100M	10	72	4.60
FASNR6060-150M	15	97.5	3.80
FASNR6060-220M	22	110.5	3.40
FASNR6060-330M	33	156	2.80

Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNR8040-1R0N	1.0	9.1	10.15
FASNR8040-1R5N	1.5	13	8.15
FASNR8040-2R2M	2.2	15.6	8.00
FASNR8040-3R3M	3.3	22.1	6.50
FASNR8040-4R7M	4.7	24.7	5.90
FASNR8040-6R8M	6.8	31.2	4.95
FASNR8040-100M	10	52	4.30
FASNR8040-150M	15	61	2.95
FASNR8040-220M	22	85.8	2.50
FASNR8040-330M	33	143	2.07
FASNR8040-470M	47	195	1.75
FASNR8040-680M	68	255	1.45
FASNR8040-101M	100	377	1.15
FASNR8040-221M	220	780	0.85
FASNR8040-331M	330	1157	0.65
FASNR8040-471M	470	1950	0.55
FASNR8040-681M	680	2650	0.48

TEST CONDITIONS

L = 82uH TEST FREQUENCY AT 100KHz/0.25V.
L > 82uH TEST FREQUENCY AT 1KHz/0.25V.

TECHNICAL INFORMATION PHYSICAL CHARACTERISTICS



DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	H	I
FASNR6060	6.0±0.2	6.0±0.2	6.3 Max	5.0 REF	1.65 REF	2.7 REF	6.5 REF	5.3 REF	2.4 REF
FASNR8040	8.0±0.2	8.0±0.2	4.2 Max	6.3 REF	2.45 REF	3.1 REF	8.5 REF	6.6 REF	2.8 REF

SURFACE-MOUNT POWER INDUCTORS FASNRV3012,4012,4020 SERIES



FEATURES:

Low profile, low RDC, high current handling capacities
Magnetically shielded structure that ensures the
high-density mounting configurations
Provided in embossed carrier tape packaging for use with automatic mounting machines

OPTIONS:

Ideally used in Portable telephones, PDA, DSC, DC-DCC converters, etc

COMMON APPLICATIONS:

$\frac{\text{FASNRV}}{a} \frac{3010}{b} \frac{1R0}{c} \frac{N}{d}$
a: Series name
b: Product dimensions
c: Inductance Value [1R0: 1.0uH; 100; 10uH; 101: 100uH]
d: Inductance Tolerance [K: 10%; M: 20%; N: 30%]

ELECTRICAL CHARACTERISTICS

Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNRV3012-R33N	0.33	30	7.20
FASNRV3012-R47N	0.47	36	6.80
FASNRV3012-R68N	0.68	44	5.80
FASNRV3012-1R0N	1.0	58	4.20
FASNRV3012-1R5N	1.5	77	3.40
FASNRV3012-2R2N	2.2	110	2.80
FASNRV3012-3R3N	3.3	158	2.20
FASNRV3012-4R7N	4.7	235	2.00
FASNRV3012-6R8N	6.8	340	1.60
FASNRV3012-100M	10	474	1.20

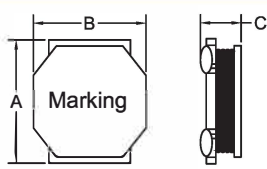
Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNRV4012-R33N	0.33	32	10.3
FASNRV4012-R47N	0.47	41	9.10
FASNRV4012-R68N	0.68	41	5.50
FASNRV4012-1R0N	1.0	59	5.70
FASNRV4012-1R2N	1.2	59	4.00
FASNRV4012-1R5N	1.5	70	3.90
FASNRV4012-2R2N	2.2	79	2.80
FASNRV4012-3R3N	3.3	125	2.80
FASNRV4012-4R7N	4.7	166	2.30
FASNRV4012-6R8N	6.8	226	1.60
FASNRV4012-100M	10	335	1.55
FASNRV4012-220M	22	720	1.05

Part Number	Inductance [uH]	DCR [mΩ] Max	Isat [A]
FASNRV4020-1R0N	1.0	28	8.70
FASNRV4020-1R5N	1.5	38	7.70
FASNRV4020-2R2N	2.2	50	6.10
FASNRV4020-3R3N	3.3	74	4.70
FASNRV4020-4R7N	4.7	110	4.00
FASNRV4020-6R8N	6.8	158	3.00
FASNRV4020-100M	10	218	2.80

TEST CONDITIONS

L = 82uH TEST FREQUENCY AT 100KHz/0.25V.
L > 82uH TEST FREQUENCY AT 1KHz/0.25V.

TECHNICAL INFORMATION



DIMENSIONS IN mm

Part number	A	B	C	D	E	F	G	H	I
FASNRV3012	3.0±0.2	3.0±0.2	1.35 Max	2.6 REF	1.13 REF	0.82 REF	3.5 REF	2.9 REF	0.5 REF
FASNRV4012	4.0±0.2	4.0±0.2	1.35 Max	3.5 REF	1.3 REF	1.4 REF	4.5 REF	3.8 REF	1.1 REF
FASNRV4020	4.0±0.2	4.0±0.2	2.05 Max	3.5 REF	1.0 REF	2.0 REF	4.5 REF	3.8 REF	1.7 REF

PHYSICAL CHARACTERISTICS

