

HIGH CURRENT POWER INDUCTOR FACSB0530,0630 SERIES



FEATURES:

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Flat wire winding, achieve a low D.C. R resistance
- Low loss, high efficiency, wide application frequency and application
- Vertical structure design, save space
- Operating temperature: -40°C~ +125°C
[Including coils temperature rise]

PRODUCT IDENTIFICATION:

$$\frac{\text{CSB}}{\text{a}} \frac{\text{0530}}{\text{b}} - \frac{\text{R32}}{\text{c}} \frac{\text{M}}{\text{d}}$$

- a: Series name
- b: Product dimensions
- c: Inductance Value[1R0:1.0uH;100;10uH;101:100uH]
- d: Inducatance Tolerance[K:10%;M:20%;N:30%]

ELECTRICAL CHARACTERISTICS

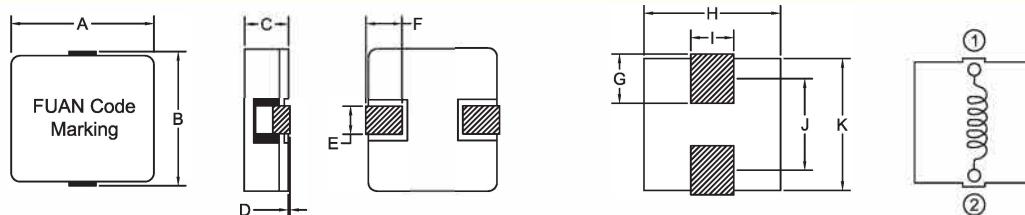
| Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current[A] Typical | Temperature Current[A] Typical | Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current[A] Typical | Temperature Current[A] Typical |
|----------------|---------------------|---------|------|-------------------------------|--------------------------------|----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSB0530-R32M | 0.32 | 2.45 | 3.00 | 19.0 | 18.0 | FACSB0630-R13M | 0.13 | 0.91 | 1.00 | 48.0 | 22.0 |
| FACSB0530-R47M | 0.47 | 3.90 | 4.30 | 15.0 | 13.0 | FACSB0630-R22M | 0.22 | 1.80 | 1.98 | 40.0 | 18.0 |
| FACSB0530-R68M | 0.68 | 6.40 | 7.10 | 11.5 | 11.0 | FACSB0630-R52M | 0.52 | 3.70 | 4.07 | 20.0 | 14.0 |
| FACSB0530-1R0M | 1.00 | 11.5 | 12.6 | 10.5 | 7.50 | FACSB0630-R95M | 0.95 | 6.20 | 6.82 | 13.0 | 11.0 |
| FACSB0530-1R5M | 1.50 | 13.2 | 14.5 | 7.50 | 7.00 | FACSB0630-1R2M | 1.20 | 8.60 | 9.46 | 13.0 | 8.50 |
| | | | | | | FACSB0630-1R5M | 1.50 | 12.7 | 14.0 | 12.0 | 7.50 |
| | | | | | | FACSB0630-2R0M | 2.00 | 14.2 | 15.6 | 9.00 | 6.50 |
| | | | | | | FACSB0630-3R3M | 3.30 | 18.6 | 21.0 | 7.00 | 6.00 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT 50 [Ta=25°C].
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| FACSB0530 | 5.3±0.3 | 5.6±0.5 | 3.0±0.3 | 0.0-0.2 | 1.0±0.3 | 1.2±0.3 | 1.9 REF | 5.6 REF | 2.0 REF | 4.1 REF | 5.6 REF |
| FACSB0630 | 6.9±0.3 | 7.0±0.5 | 3.0±0.3 | 0.0-0.2 | 1.2±0.3 | 1.8±0.3 | 2.5 REF | 7.2 REF | 2.5 REF | 5.0 REF | 7.2 REF |

HIGH CURRENT POWER INDUCTOR FACSB0640,0650 SERIES



FEATURES :

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Flat wire winding, achieve a low D.C. R resistance
- Low loss, high efficiency, wide application frequency and application
- Vertical structure design, save space
- Operating temperature: -40°C~ +125°C
[Including coils temperature rise]

PRODUCT IDENTIFICATION:

CSB 0640 - R22 M
a b c 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

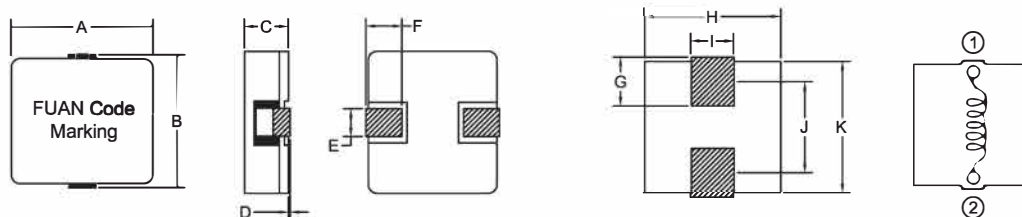
| Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical | Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|----------------|---------------------|---------|------|-------------------------------|--------------------------------|----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSB0640-R22M | 0.22 | 1.18 | 1.30 | 32.0 | 21.0 | FACSB0650-R24M | 0.24 | 1.00 | 1.10 | 28.0 | 20.0 |
| FACSB0640-R47M | 0.47 | 1.85 | 2.04 | 25.0 | 19.0 | FACSB0650-R47M | 0.47 | 1.35 | 1.49 | 20.0 | 18.0 |
| FACSB0640-R68M | 0.68 | 3.10 | 3.40 | 20.0 | 17.0 | FACSB0650-R76M | 0.76 | 2.25 | 2.48 | 15.0 | 15.5 |
| FACSB0640-1R0M | 1.00 | 4.60 | 5.10 | 19.0 | 15.0 | FACSB0650-1R1M | 1.10 | 3.15 | 3.47 | 13.0 | 15.0 |
| FACSB0640-1R5M | 1.50 | 6.60 | 7.30 | 14.0 | 11.0 | FACSB0650-1R5M | 1.50 | 4.30 | 4.73 | 11.0 | 13.0 |
| FACSB0640-2R2M | 2.20 | 11.4 | 12.5 | 13.0 | 9.00 | FACSB0650-2R2M | 2.20 | 5.85 | 6.44 | 9.00 | 11.0 |
| FACSB0640-3R3M | 3.30 | 17.2 | 18.5 | 11.0 | 6.50 | FACSB0650-3R3M | 3.30 | 9.00 | 9.90 | 8.00 | 9.00 |
| FACSB0640-4R7M | 4.70 | 19.5 | 21.5 | 7.00 | 6.00 | FACSB0650-4R9M | 4.90 | 14.5 | 16.0 | 6.50 | 6.50 |
| | | | | | | FACSB0650-6R5M | 6.50 | 21.5 | 23.7 | 6.00 | 6.00 |
| | | | | | | FACSB0650-7R6M | 7.60 | 28.2 | 31.0 | 4.80 | 4.20 |
| | | | | | | FACSB0650-8R5M | 8.50 | 30.5 | 33.6 | 4.50 | 4.00 |
| | | | | | | FACSB0650-100M | 10.0 | 33.0 | 36.3 | 4.00 | 3.50 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT50 [Ta=25°C].
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| FACSB0640 | 6.9±0.3 | 7.0±0.5 | 3.8±0.3 | 0.0-0.2 | 1.2±0.3 | 1.8±0.3 | 2.5 REF | 7.2 REF | 2.5 REF | 5.0 REF | 7.2 REF |
| FACSB0650 | 6.9±0.3 | 7.0±0.5 | 4.8±0.3 | 0.0-0.2 | 1.2±0.3 | 1.8±0.3 | 2.5 REF | 7.2 REF | 2.5 REF | 5.0 REF | 7.2 REF |

HIGH CURRENT POWER INDUCTOR FACSB1030,1040 SERIES



FEATURES :

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Flat wire winding, a achieve a low D.C. R resistance
- Low loss, high efficiency, wide application frequency and application
- Vertical structure design, save space
- Operating temperature: -40°C~ +125°C
[Including coil's temperature rise]

PRODUCT IDENTIFICATION:

CSB $\frac{1030}{a}$ - R $\frac{20}{b}$ $\frac{M}{c}$ $\frac{M}{d}$

- 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

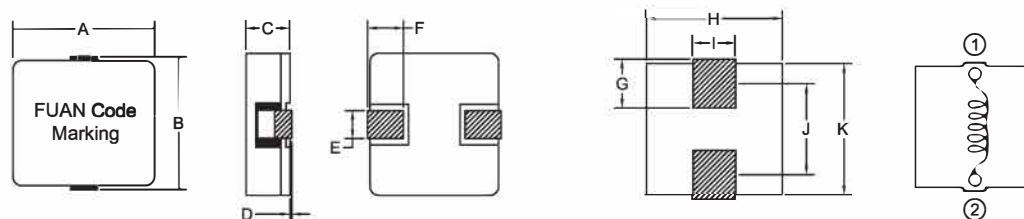
| Part Number | Inductance [uH]±20% | DCR[mΩ] | | Saturation Current[A] Typical | Temperature Current[A] Typical | Part Number | Inductance [uH]±20% | DCR[mΩ] | | Saturation Current[A] Typical | Temperature Current[A] Typical |
|----------------|---------------------|---------|------|-------------------------------|--------------------------------|----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSB1030-R20M | 0.20 | 0.82 | 0.98 | 50.0 | 22.0 | FACSB1040-R15M | 0.15 | 0.58 | 0.60 | 60.0 | 25.0 |
| FACSB1030-R33M | 0.33 | 2.17 | 2.50 | 36.0 | 18.0 | FACSB1040-R30M | 0.30 | 1.10 | 1.20 | 50.0 | 22.0 |
| FACSB1030-R56M | 0.56 | 2.17 | 2.50 | 30.0 | 18.0 | FACSB1040-R56M | 0.56 | 1.60 | 1.80 | 30.0 | 20.0 |
| FACSB1030-R68M | 0.68 | 4.79 | 5.40 | 23.0 | 14.0 | FACSB1040-1R0M | 1.00 | 3.30 | 3.60 | 20.0 | 16.0 |
| FACSB1030-1R0M | 1.00 | 4.79 | 5.40 | 21.0 | 14.0 | FACSB1040-1R5M | 1.50 | 5.30 | 5.80 | 17.0 | 14.0 |
| FACSB1030-1R2M | 1.20 | 6.60 | 7.40 | 20.0 | 12.0 | FACSB1040-2R0M | 2.00 | 7.30 | 8.00 | 13.0 | 11.0 |
| FACSB1030-1R5M | 1.50 | 6.60 | 7.40 | 18.0 | 12.0 | FACSB1040-2R8M | 2.80 | 10.6 | 11.7 | 11.0 | 9.50 |
| FACSB1030-2R2M | 2.20 | 11.4 | 12.5 | 15.0 | 9.00 | FACSB1040-4R3M | 4.30 | 14.1 | 15.5 | 8.00 | 8.00 |
| | | | | | | FACSB1040-5R6M | 5.60 | 20.6 | 22.7 | 7.50 | 6.70 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT50 [Ta=25°C].
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K |
|-------------|----------|----------|---------|---------|-----------|---------|---------|----------|---------|---------|----------|
| FACSB1030 | 10.2±0.5 | 10.5±1.0 | 2.8±0.3 | 0.0-0.2 | 2.25±0.75 | 2.5±1.0 | 3.5 REF | 10.7 REF | 5.0 REF | 8.0 REF | 10.7 REF |
| FACSB1040 | 10.2±0.5 | 10.5±1.0 | 4.0±0.3 | 0.0-0.2 | 2.25±0.75 | 2.5±1.0 | 3.5 REF | 10.7 REF | 5.0 REF | 8.0 REF | 10.7 REF |

HIGH CURRENT POWER INDUCTOR FACSB1050,1060 SERIES



FEATURES:

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Flat wire winding, achieve a low D.C. Resistance
- Low loss, high efficiency, wide application frequency and application
- Vertical structure design, save space
- Operating temperature: -40°C~ +125°C
[Including coils temperature rise]

PRODUCT IDENTIFICATION:

$$\frac{CSB}{a} \frac{1050}{b} - \frac{R16}{c} \frac{M}{d}$$

- 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

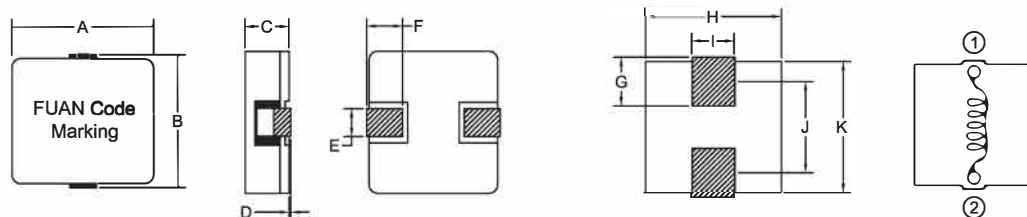
| Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical | Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|----------------|---------------------|---------|------|-------------------------------|--------------------------------|----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSB1050-R16M | 0.16 | 0.56 | 0.70 | 58.0 | 25.0 | FACSB1060-R60M | 0.60 | 0.94 | 1.10 | 45.0 | 25.0 |
| FACSB1050-R40M | 0.40 | 0.67 | 0.74 | 37.0 | 24.0 | FACSB1060-R73M | 0.73 | 1.65 | 2.00 | 35.0 | 24.0 |
| FACSB1050-R72M | 0.72 | 1.30 | 1.43 | 35.0 | 22.0 | FACSB1060-1R2M | 1.20 | 2.45 | 2.70 | 25.0 | 20.0 |
| FACSB1050-1R2M | 1.20 | 1.80 | 1.98 | 25.0 | 20.0 | FACSB1060-2R2M | 2.20 | 4.26 | 5.00 | 20.0 | 18.0 |
| FACSB1050-1R8M | 1.80 | 3.50 | 3.85 | 18.0 | 16.0 | FACSB1060-3R3M | 3.30 | 5.10 | 6.20 | 17.0 | 13.0 |
| FACSB1050-2R4M | 2.40 | 4.75 | 5.23 | 17.0 | 14.0 | FACSB1060-4R7M | 4.70 | 6.72 | 10.0 | 10.0 | 10.0 |
| FACSB1050-3R3M | 3.30 | 5.90 | 6.49 | 15.0 | 12.0 | FACSB1060-8R2M | 8.20 | 11.6 | 12.7 | 7.50 | 7.50 |
| FACSB1050-4R2M | 4.20 | 7.10 | 7.81 | 14.0 | 11.0 | FACSB1060-100M | 10.0 | 18.0 | 22.0 | 7.00 | 7.00 |
| FACSB1050-5R5M | 5.50 | 10.3 | 11.3 | 12.0 | 10.0 | | | | | | |
| FACSB1050-6R5M | 6.50 | 12.5 | 13.8 | 10.0 | 8.40 | | | | | | |
| FACSB1050-7R8M | 7.80 | 13.6 | 15.0 | 9.50 | 8.00 | | | | | | |
| FACSB1050-100M | 10.0 | 16.3 | 18.0 | 8.50 | 7.20 | | | | | | |
| FACSB1050-160M | 16.0 | 34.5 | 38.0 | 6.50 | 5.00 | | | | | | |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT 50 [Ta=25°C].
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K |
|-------------|----------|----------|---------|---------|-----------|---------|---------|----------|---------|---------|----------|
| FACSB1030 | 10.2±0.5 | 10.5±1.0 | 4.7±0.3 | 0.0-0.2 | 2.25±0.75 | 2.5±1.0 | 3.5 REF | 10.7 REF | 5.0 REF | 8.0 REF | 10.7 REF |
| FACSB1040 | 10.2±0.5 | 10.5±1.0 | 5.7±0.3 | 0.0-0.2 | 2.25±0.75 | 2.5±1.0 | 3.5 REF | 10.7 REF | 5.0 REF | 8.0 REF | 10.7 REF |

HIGH CURRENT POWER INDUCTOR FACSB1085,1140 SERIES



FEATURES:

Magnetic shielding structure, excellent resistance to electro magnetic interference
 Flat wire winding, achieve a low D.C. Resistance
 Low loss, high efficiency, wide application frequency and application
 Vertical structure design, save space
 Operating temperature: -40°C~ +125°C
 [Including coil's temperature rise]

PRODUCT IDENTIFICATION:

CSB 1085 - R47 M
 $\frac{\quad}{a} \frac{\quad}{b} \frac{\quad}{c} \frac{\quad}{d}$

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

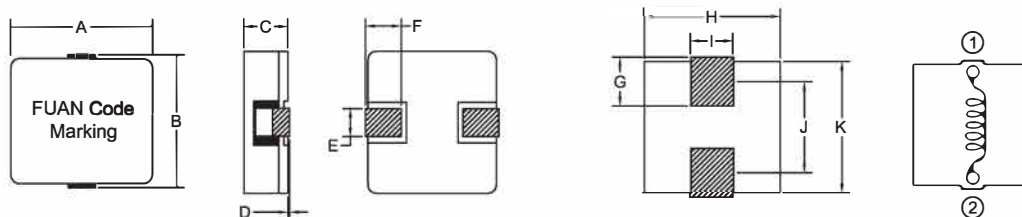
| Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical | Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|----------------|---------------------|---------|------|-------------------------------|--------------------------------|----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSB1085-R47M | 0.47 | 1.45 | 1.70 | 110 | 25.0 | FACSB1140-R68M | 0.68 | 1.61 | 1.80 | 40.0 | 21.0 |
| FACSB1085-1R0M | 1.00 | 1.45 | 1.70 | 40.0 | 25.0 | FACSB1140-2R2M | 2.20 | 5.20 | 6.40 | 20.0 | 15.0 |
| FACSB1085-4R7M | 4.70 | 5.33 | 6.40 | 16.0 | 13.0 | | | | | | |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT 50 [Ta=25°C].
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K |
|-------------|----------|----------|---------|---------|-----------|---------|---------|----------|---------|---------|----------|
| FACSB1085 | 10.2±0.5 | 10.5±1.0 | 4.7±0.3 | 0.0-0.2 | 2.25±0.75 | 2.5±1.0 | 3.5 REF | 10.7 REF | 5.0 REF | 8.0 REF | 10.7 REF |
| FACSB1140 | 12.7±0.3 | 11.8±1.0 | 4.0±0.3 | 0.0-0.2 | 2.15±0.75 | 3.0±1.0 | 4.5 REF | 13.0 REF | 4.0 REF | 8.5 REF | 12.3 REF |

HIGH CURRENT POWER INDUCTOR FACSB1235,1240 SERIES



FEATURES:

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Flat wire winding, achieve a low D.C. R resistance
- Low loss, high efficiency, wide application frequency and application
- Vertical structure design, save space
- Operating temperature: -40°C~ +125°C
[Including coils temperature rise]

PRODUCT IDENTIFICATION:

$$\frac{CSB}{a} \frac{1235}{b} - \frac{1R2}{c} \frac{M}{d}$$

- a:Series name
- b:Product dimensions
- c:Inductance Value[1R0:1.0uH;100;10uH;101:100uH]
- d:Inducatance Tolerance [K:10%;M:20%;N:30%]

ELECTRICAL CHARACTERISTICS

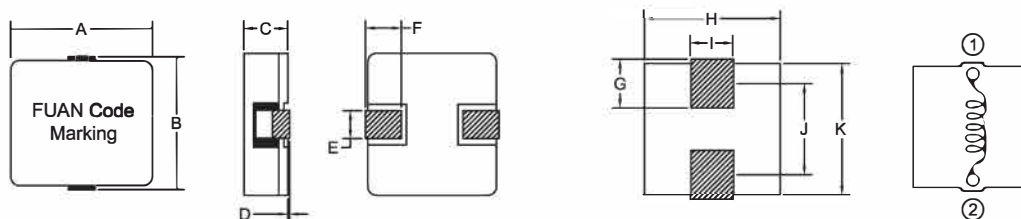
| Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical | Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|----------------|---------------------|---------|------|-------------------------------|--------------------------------|----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSB1235-R25M | 0.25 | 0.75 | 0.80 | 60.0 | 24.0 | FACSB1240-R47M | 0.47 | 1.03 | 1.25 | 50.0 | 25.0 |
| FACSB1235-R47M | 0.47 | 1.67 | 2.00 | 48.0 | 22.0 | FACSB1240-2R2M | 2.20 | 5.20 | 6.50 | 18.0 | 14.5 |
| FACSB1235-R68M | 0.68 | 1.58 | 1.70 | 30.0 | 22.0 | FACSB1240-3R3M | 3.30 | 8.20 | 9.40 | 14.0 | 12.0 |
| FACSB1235-1R2M | 1.20 | 28.5 | 3.10 | 28.0 | 17.0 | FACSB1240-4R7M | 4.70 | 9.20 | 10.5 | 12.0 | 10.0 |
| FACSB1235-1R8M | 1.80 | 5.60 | 6.20 | 22.0 | 14.0 | | | | | | |
| FACSB1235-2R2M | 2.20 | 5.70 | 6.30 | 18.0 | 14.0 | | | | | | |
| FACSB1235-3R3M | 3.30 | 8.10 | 8.90 | 14.0 | 12.0 | | | | | | |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT 50 (Ta=25°C).
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K |
|-------------|----------|----------|---------|---------|-----------|---------|---------|----------|---------|----------|----------|
| FACSB1235 | 12.8±0.5 | 13.0±1.0 | 3.3±0.3 | 0.0-0.2 | 2.25±0.75 | 3.0±1.0 | 4.5 REF | 13.3 REF | 5.5 REF | 10.5 REF | 13.3 REF |
| FACSB1240 | 12.8±0.5 | 13.0±1.0 | 3.7±0.3 | 0.0-0.2 | 2.25±0.75 | 3.0±1.0 | 4.5 REF | 13.3 REF | 5.5 REF | 10.5 REF | 13.3 REF |

HIGH CURRENT POWER INDUCTOR FACSB1250,1260 SERIES



FEATURES:

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Flat wire winding, a achieve a low D.C. R resistance
- Low loss, high efficiency, wide application frequency and application
- Vertical structure design, save space
- Operating temperature: -40°C~ +125°C
[Including coil's temperature rise]

PRODUCT IDENTIFICATION:

$$\frac{\text{CSB}}{a} \frac{1250}{b} - \frac{1R4}{c} \frac{M}{d}$$

- a:Series name
- b:Product dimensions
- c:Inductance Value[1R0:1.0uH;100;10uH;101:100uH]
- d:Inducatance Tolerance[K:10%;M:20%;N:30%]

ELECTRICAL CHARACTERISTICS

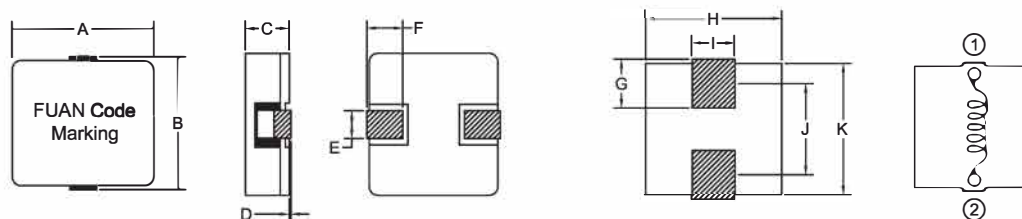
| Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current[A] Typical | Temperature Current[A] Typical | Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current[A] Typical | Temperature Current[A] Typical |
|----------------|---------------------|---------|------|-------------------------------|--------------------------------|----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSB1250-R19M | 0.19 | 0.50 | 0.55 | 60.0 | 29.0 | FACSB1260-R50M | 0.50 | 0.71 | 0.78 | 48.0 | 28.0 |
| FACSB1250-R47M | 0.47 | 0.90 | 0.99 | 50.0 | 26.0 | FACSB1260-R82M | 0.82 | 1.24 | 1.36 | 30.0 | 26.0 |
| FACSB1250-R90M | 0.90 | 1.60 | 1.76 | 28.0 | 24.0 | FACSB1260-1R3M | 1.30 | 1.80 | 2.00 | 25.0 | 25.0 |
| FACSB1250-1R4M | 1.40 | 2.40 | 2.64 | 26.0 | 22.0 | FACSB1260-1R5M | 1.50 | 2.60 | 2.90 | 23.0 | 23.0 |
| FACSB1250-2R3M | 2.30 | 3.70 | 4.07 | 17.0 | 17.5 | FACSB1260-2R0M | 2.00 | 2.60 | 2.90 | 22.0 | 23.0 |
| FACSB1250-3R2M | 3.20 | 5.30 | 5.83 | 15.0 | 16.0 | FACSB1260-2R2M | 2.20 | 2.60 | 2.90 | 21.0 | 23.0 |
| FACSB1250-4R8M | 4.80 | 10.5 | 11.6 | 13.0 | 11.0 | FACSB1260-2R7M | 2.70 | 3.60 | 4.00 | 17.5 | 20.0 |
| FACSB1250-8R2M | 8.20 | 11.6 | 12.8 | 11.0 | 10.0 | FACSB1260-3R3M | 3.30 | 3.90 | 4.30 | 15.0 | 16.0 |
| FACSB1250-100M | 10.0 | 14.1 | 15.5 | 10.0 | 8.50 | FACSB1260-4R7M | 4.70 | 6.60 | 7.30 | 13.0 | 15.0 |
| | | | | | | FACSB1260-6R0M | 6.00 | 8.40 | 9.20 | 12.0 | 14.0 |
| | | | | | | FACSB1260-6R8M | 6.80 | 8.40 | 9.20 | 12.0 | 14.0 |
| | | | | | | FACSB1260-100M | 10.0 | 10.4 | 12.0 | 10.0 | 10.0 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT50 (Ta=25°C).
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K |
|-------------|----------|----------|---------|---------|-----------|---------|---------|----------|---------|----------|----------|
| FACSB1250 | 12.8±0.5 | 13.0±1.0 | 4.7±0.3 | 0.0-0.2 | 2.25±0.75 | 3.0±1.0 | 4.5 REF | 13.3 REF | 5.5 REF | 10.5 REF | 13.3 REF |
| FACSB1260 | 12.8±0.5 | 13.0±1.0 | 5.7±0.3 | 0.0-0.2 | 2.25±0.75 | 3.0±1.0 | 4.5 REF | 13.3 REF | 5.5 REF | 10.5 REF | 13.3 REF |

HIGH CURRENT POWER INDUCTOR FACSB1265,1660 SERIES



FEATURES :

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Flat wire winding, achieve a low D.C. Resistance
- Low loss, high efficiency, wide application frequency and application
- Vertical structure design, save space
- Operating temperature: -40°C ~ +125°C
[Including coils temperature rise]

PRODUCT IDENTIFICATION:

$$\frac{CSB}{a} \frac{1265}{b} - \frac{1R3}{c} \frac{M}{d}$$

- 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

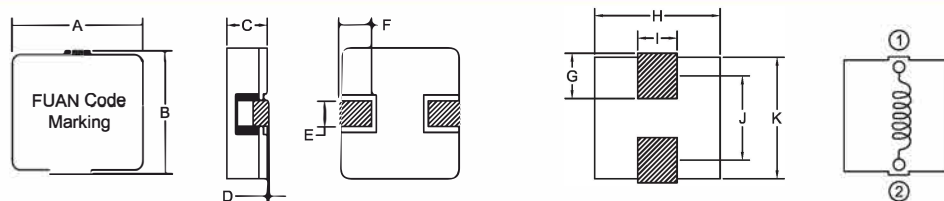
| Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical | Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|----------------|---------------------|---------|------|-------------------------------|--------------------------------|----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSB1265-R20M | 0.20 | 0.35 | 0.40 | 65.0 | 32.0 | FACSB1660-3R3M | 3.30 | 0.82 | 1.00 | 80.0 | 30.0 |
| FACSB1265-R47M | 0.47 | 0.67 | 0.85 | 50.0 | 30.0 | | | | | | |
| FACSB1265-R82M | 0.82 | 0.90 | 1.10 | 35.0 | 27.0 | | | | | | |
| FACSB1265-1R3M | 1.30 | 1.80 | 2.00 | 25.0 | 25.0 | | | | | | |
| FACSB1265-2R0M | 2.00 | 2.60 | 2.90 | 22.0 | 23.0 | | | | | | |
| FACSB1265-2R8M | 2.80 | 3.30 | 3.60 | 17.5 | 20.0 | | | | | | |
| FACSB1265-3R7M | 3.70 | 4.90 | 5.40 | 16.0 | 17.0 | | | | | | |
| FACSB1265-4R7M | 4.70 | 7.00 | 7.70 | 15.0 | 13.0 | | | | | | |
| FACSB1265-6R0M | 6.00 | 8.40 | 9.20 | 14.0 | 12.0 | | | | | | |
| FACSB1265-7R3M | 7.30 | 5.90 | 6.50 | 12.0 | 13.0 | | | | | | |
| FACSB1265-9R2M | 9.20 | 7.80 | 8.60 | 10.5 | 12.0 | | | | | | |
| FACSB1265-110M | 11.0 | 9.10 | 10.0 | 9.50 | 11.0 | | | | | | |
| FACSB1265-130M | 13.0 | 11.2 | 12.3 | 9.00 | 10.0 | | | | | | |
| FACSB1265-150M | 15.0 | 14.8 | 16.3 | 8.00 | 9.00 | | | | | | |
| FACSB1265-180M | 18.0 | 22.0 | 24.2 | 7.50 | 7.50 | | | | | | |
| FACSB1265-220M | 22.0 | 24.7 | 27.2 | 6.50 | 6.00 | | | | | | |
| FACSB1265-330M | 33.0 | 30.5 | 33.6 | 5.50 | 5.50 | | | | | | |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT50 (Ta=25°C).
- Special remind : C circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K |
|-------------|----------|----------|---------|---------|-----------|---------|---------|----------|---------|----------|----------|
| FACSB1265 | 12.8±0.5 | 13.0±1.0 | 6.2±0.3 | 0.0-0.2 | 2.25±0.75 | 3.0±1.0 | 4.5 REF | 13.3 REF | 5.5 REF | 10.5 REF | 13.3 REF |
| FACSB1660 | 16.0±0.5 | 16.0±1.0 | 6.0±0.3 | 0.0-0.2 | 2.95±0.75 | 4.0±1.0 | 6.0 REF | 16.5 REF | 5.5 REF | 12.0 REF | 16.5 REF |

HIGH CURRENT POWER INDUCTOR FACSB1809,2212 SERIES



FEATURES :

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Flat wire winding, achieve a low D.C. R resistance
- Low loss, high efficiency, wide application frequency and application
- Vertical structure design, save space
- Operating temperature: -40°C ~ +125°C
[Including coils temperature rise]

PRODUCT IDENTIFICATION:

$$\text{CSB } \frac{1809}{a} - \frac{1R3}{b} \frac{M}{c} \frac{M}{d}$$

- 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

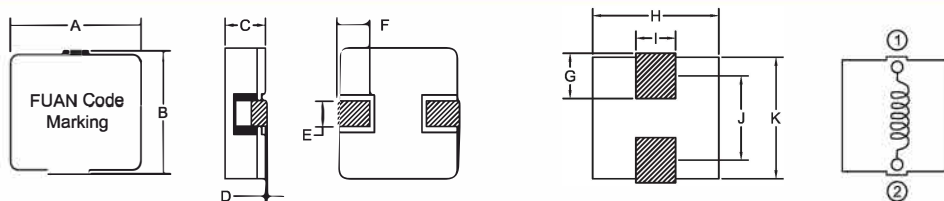
| Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current[A] Typical | Temperature Current[A] Typical | Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current[A] Typical | Temperature Current[A] Typical |
|----------------|---------------------|---------|------|-------------------------------|--------------------------------|----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSB1809-R82M | 0.82 | 0.54 | 0.59 | 65.0 | 41.5 | FACSB2212-4R7M | 4.70 | 1.83 | 2.10 | 32.0 | 32.0 |
| FACSB1809-1R3M | 1.30 | 0.94 | 1.03 | 62.0 | 34.5 | FACSB2212-330M | 33.0 | 10.8 | 12.5 | 15.0 | 13.0 |
| FACSB1809-1R9M | 1.90 | 1.20 | 1.30 | 52.0 | 32.5 | | | | | | |
| FACSB1809-2R6M | 2.60 | 1.58 | 1.74 | 50.0 | 31.5 | | | | | | |
| FACSB1809-3R5M | 3.50 | 3.10 | 3.40 | 37.0 | 22.5 | | | | | | |
| FACSB1809-4R5M | 4.50 | 3.40 | 3.70 | 37.0 | 20.5 | | | | | | |
| FACSB1809-5R6M | 5.60 | 3.70 | 4.10 | 33.0 | 19.0 | | | | | | |
| FACSB1809-6R8M | 6.80 | 4.10 | 4.50 | 27.0 | 18.5 | | | | | | |
| FACSB1809-100M | 10.0 | 6.90 | 7.60 | 21.5 | 15.0 | | | | | | |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT50 [Ta=25°C].
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc.
a) It will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K |
|-------------|----------|----------|----------|---------|---------|---------|---------|----------|---------|----------|----------|
| FACSB1809 | 18.2±0.5 | 18.3±1.0 | 8.9±0.3 | 0.0-0.3 | 4.0±0.5 | 4.5±1.0 | 6.0 REF | 18.7 REF | 6.0 REF | 14.0 REF | 18.7 REF |
| FACSB2212 | 22.0±0.5 | 22.5±1.0 | 12.0±0.5 | 0.0-0.3 | 4.0±0.5 | 5.0±1.0 | 6.5 REF | 23.0 REF | 6.0 REF | 17.5 REF | 23.0 REF |

HIGH CURRENT POWER INDUCTOR FACSCG1056 SERIES



FEATURES :

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Assemblage design, sturdy structure
- Small volume, high current, low magnetic loss, low ESR small parasitic capacitance
- Temperature rise current and saturation current is less influenced by environment
- Operating temperature: -40°C ~ +125°C [Including coils temperature rise]

PRODUCT IDENTIFICATION:

$$\frac{c}{a} \frac{S}{b} \frac{C}{c} \frac{G}{d} - \frac{4R7}{c} \frac{M}{d}$$

- 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

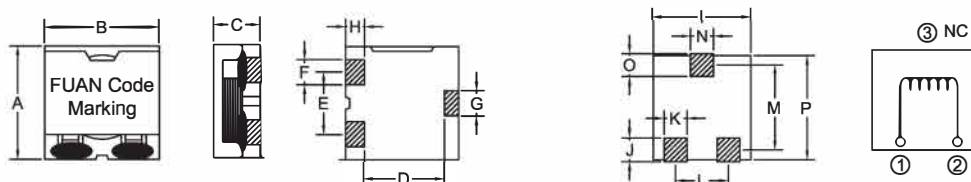
| Part Number | Inductance [uH]±20% | D.C.Resistor[mΩ] | | Saturation Current [A]Typical | Temperature Current [A]Typical |
|-----------------|---------------------|------------------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | |
| FACSCG1056-R60M | 0.60 | 1.32 | 1.60 | 45.0 | 24.0 |
| FACSCG1056-R68M | 0.68 | 1.32 | 1.60 | 38.0 | 24.0 |
| FACSCG1056-1R0M | 1.00 | 2.50 | 2.80 | 30.0 | 13.0 |
| FACSCG1056-1R3M | 1.30 | 2.50 | 2.80 | 19.0 | 13.0 |
| FACSCG1056-4R7M | 4.70 | 9.20 | 11.0 | 10.0 | 11.0 |
| FACSCG1056-8R2M | 8.20 | 17.0 | 19.0 | 8.00 | 9.00 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 20% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT40 [Ta=25°C].
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K |
|-------------|---------|----------|---------|---------|---------|---------|---------|---------|----------|---------|---------|
| FACSCG1056 | 9.0 Max | 10.5 Max | 5.6 Max | 1.8±0.2 | 5.6 REF | 2.6±0.5 | 1.8 REF | 1.8 REF | 10.5 REF | 4.0 REF | 3.0 REF |
| Part number | L | M | N | O | P | | | | | | |
| FACSCG1056 | 5.6 REF | 5.75 REF | 2.8 REF | 2.5 REF | 9.0 REF | | | | | | |

HIGH CURRENT POWER INDUCTOR FACSCG1360,1365 SERIES



FEATURES:

Magnetic shielding structure, excellent resistance to electro magnetic interference
 Assemblage design, sturdy structure
 Small volume, high current, low magnetic loss, low ESR small parasitic capacitance
 Temperature rise current and saturation current is less influenced by environment
 Operating temperature: -40°C~ +125°C
 [Including coilis temperature rise]

PRODUCT IDENTIFICATION:

$$\frac{C}{a} \frac{S}{b} \frac{C}{c} \frac{G}{d} \frac{1}{c} \frac{R}{d} \frac{M}{d}$$

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

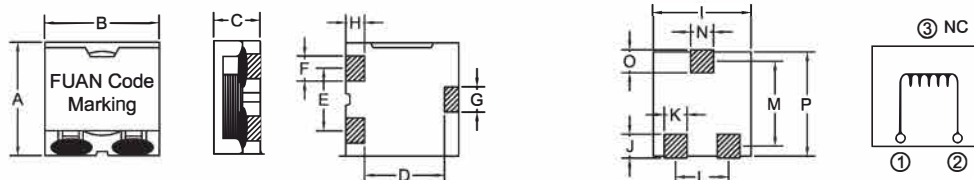
| Part Number | Inductance [uH]±20% | DCR[mΩ] | | Saturation Current[A] Typical | Temperature Current[A] Typical |
|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | |
| FACSCG1360-1R0M | 1.00 | 1.50 | 1.80 | 30.0 | 24.0 |
| FACSCG1365-1R0M | 1.00 | 2.00 | 2.50 | 50.0 | 25.0 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 20% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT 40 (Ta=25°C).
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J |
|-------------|----------|----------|---------|---------|---------|---------|---------|---------|----------|---------|
| FACSCG1360 | 11.8 Max | 14.0 Max | 6.5 Max | 2.0±0.3 | 8.5 REF | 3.0±1.0 | 1.8 REF | 1.8 REF | 14.0 REF | 5.0 REF |
| FACSCG1365 | 11.8 Max | 14.0 Max | 6.5±0.3 | 2.0±0.3 | 8.5 REF | 3.0±1.0 | 1.8 REF | 1.8 REF | 14.0 REF | 5.0 REF |

| Part number | K | L | M | N | O | P | | | | |
|-------------|---------|---------|---------|---------|---------|----------|--|--|--|--|
| FACSCG1360 | 4.0 REF | 8.5 REF | 9.0 REF | 3.5 REF | 3.5 REF | 11.8 REF | | | | |
| FACSCG1365 | 4.0 REF | 8.5 REF | 9.0 REF | 3.5 REF | 3.5 REF | 11.8 REF | | | | |

HIGH CURRENT POWER INDUCTOR FACSCM1250,1256 SERIES



FEATURES :

- High inductance, high current, low magnetic loss
- low ESR, small parasitic capacitance
- Small volume, high current, low magnetic loss, low ESR
- small parasitic capacitance
- Temperature rise current and saturation current is less influenced by environment
- Operating temperature: -40°C~ +125°C
- [Including coils temperature rise]

PRODUCT IDENTIFICATION:

$$\frac{\text{CSCM}}{\text{a}} \frac{1250}{\text{b}} - \frac{2\text{R}2}{\text{c}} \frac{\text{M}}{\text{d}}$$

- 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]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | |
| FACSCM1250-R47M | 0.47 | 0.85 | 0.96 | 31.0 | 26.5 |
| FACSCM1250-1R0M | 1.00 | 1.68 | 1.90 | 21.0 | 19.0 |
| FACSCM1250-1R5M | 1.50 | 2.74 | 3.20 | 18.0 | 15.0 |
| FACSCM1250-2R2M | 2.20 | 3.40 | 3.80 | 14.0 | 13.0 |
| FACSCM1250-2R7M | 2.70 | 6.30 | 7.20 | 14.0 | 10.0 |
| FACSCM1250-3R3M | 3.30 | 6.30 | 7.20 | 12.0 | 10.0 |
| FACSCM1250-4R0M | 4.00 | 6.30 | 7.20 | 11.0 | 10.0 |
| FACSCM1250-6R8M | 6.80 | 12.5 | 14.5 | 8.00 | 7.00 |

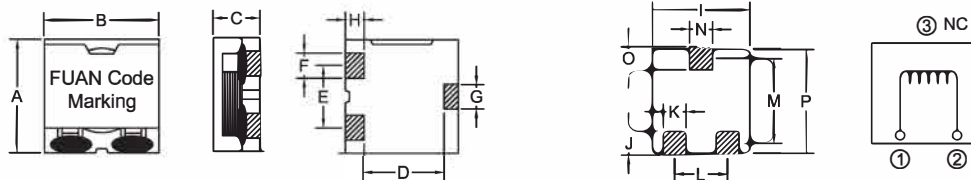
| Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | |
| FACSCM1256-R33M | 0.33 | 0.90 | 1.08 | 40.0 | 27.0 |
| FACSCM1256-R80M | 0.80 | 0.90 | 1.08 | 23.0 | 27.0 |
| FACSCM1256-1R8M | 1.80 | 4.10 | 4.50 | 20.0 | 12.0 |
| FACSCM1256-4R0M | 4.00 | 6.60 | 7.80 | 13.0 | 10.0 |
| FACSCM1256-4R7M | 4.70 | 6.00 | 7.00 | 11.0 | 10.0 |
| FACSCM1256-5R6M | 5.60 | 9.10 | 10.0 | 11.0 | 8.00 |
| FACSCM1256-100M | 10.0 | 10.2 | 11.7 | 4.00 | 7.00 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 20% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT 40 (Ta=25°C).
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J |
|-------------|----------|----------|---------|---------|---------|---------|---------|---------|----------|---------|
| FACSCM1250 | 13.5 Max | 12.5±0.4 | 5.0±0.3 | 9.0 REF | 6.9 REF | 2.0-2.6 | 2.6 REF | 2.0 REF | 12.9 REF | 3.0 REF |
| FACSCM1256 | 13.5 Max | 12.5±0.4 | 5.6±0.3 | 9.0 REF | 6.9 REF | 2.0-2.6 | 2.6 REF | 2.0 REF | 12.9 REF | 3.0 REF |

| Part number | K | L | M | N | O | P | | | | |
|-------------|---------|---------|----------|---------|---------|----------|--|--|--|--|
| FACSCM1250 | 3.0 REF | 6.9 REF | 11.1 REF | 3.0 REF | 2.8 REF | 13.5 REF | | | | |
| FACSCM1256 | 3.0 REF | 6.9 REF | 11.1 REF | 3.0 REF | 2.8 REF | 13.5 REF | | | | |

HIGH CURRENT POWER INDUCTOR FACSCM1260,1265 SERIES



FEATURES:

- Assemblage design, sturdy structure
- High inductance, high current, low magnetic loss
- low ESR, small parasitic capacitance
- Small volume, high current, low magnetic loss, low ESR
- small parasitic capacitance
- Temperature rise current and saturation current is less influenced by environment
- Operating temperature: -40°C - +125°C
[Including coilis temperature rise]

PRODUCT IDENTIFICATION:

$$\frac{C}{a} \frac{S}{b} \frac{M}{c} \frac{1260}{d} - \frac{2R2}{c} \frac{M}{d}$$

- a:Series name
- b:Product dimensions
- c:Inductance Value[1R0:1.0uH;100;10uH;101:100uH]
- d:Inducatance Tolerance[K:10%;M:20%;N:30%]

ELECTRICAL CHARACTERISTICS

| Part Number | Inductance (uH)±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | |
| FACSCM1260-1R0M | 1.00 | 1.70 | 2.00 | 28.0 | 20.0 |
| FACSCM1260-1R2M | 1.20 | 1.75 | 2.10 | 21.0 | 19.0 |
| FACSCM1260-2R2M | 2.20 | 2.20 | 2.60 | 19.0 | 17.0 |
| FACSCM1260-4R0M | 4.00 | 5.30 | 6.30 | 13.0 | 11.5 |
| FACSCM1260-4R7M | 4.70 | 5.30 | 6.30 | 10.0 | 11.5 |
| FACSCM1260-6R8M | 6.80 | 5.30 | 6.30 | 8.50 | 11.5 |
| FACSCM1260-100M | 10.0 | 9.86 | 11.5 | 7.00 | 8.00 |
| FACSCM1260-170M | 17.0 | 20.9 | 24.0 | 5.00 | 5.50 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

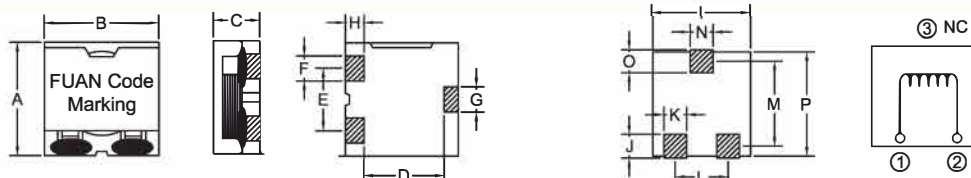
| Part Number | Inductance (uH)±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | |
| FACSCM1265-R50M | 0.50 | 0.80 | 0.90 | 35.0 | 29.5 |
| FACSCM1265-1R5M | 1.50 | 2.26 | 2.65 | 26.0 | 17.5 |
| FACSCM1265-2R2M | 2.20 | 2.94 | 3.40 | 22.0 | 15.5 |
| FACSCM1265-3R3M | 3.30 | 5.30 | 6.30 | 16.0 | 11.0 |
| FACSCM1265-4R0M | 4.00 | 5.30 | 6.30 | 13.0 | 11.0 |
| FACSCM1265-4R7M | 4.70 | 5.30 | 6.30 | 12.0 | 11.0 |
| FACSCM1265-5R6M | 5.60 | 7.30 | 8.20 | 10.5 | 10.0 |
| FACSCM1265-6R8M | 6.80 | 7.30 | 8.20 | 8.50 | 10.0 |
| FACSCM1265-8R2M | 8.20 | 7.98 | 9.50 | 8.00 | 9.00 |
| FACSCM1265-100M | 10.0 | 7.98 | 9.50 | 6.00 | 9.00 |
| FACSCM1265-170M | 17.0 | 18.3 | 22.0 | 5.00 | 6.00 |
| FACSCM1265-250M | 25.0 | 19.8 | 23.0 | 3.80 | 5.80 |
| FACSCM1265-420M | 42.0 | 23.5 | 27.0 | 2.40 | 5.30 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 20% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT 40 (Ta=25°C).
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J |
|-------------|----------|----------|---------|---------|---------|---------|---------|---------|----------|---------|
| FACSCM1260 | 13.5 Max | 12.5±0.4 | 6.0±0.3 | 9.0 REF | 6.9 REF | 2.0-2.6 | 2.6 REF | 2.0 REF | 12.9 REF | 3.0 REF |
| FACSCM1265 | 13.5 Max | 12.5±0.4 | 6.5 Max | 9.0 REF | 6.9 REF | 2.0-2.6 | 2.6 REF | 2.0 REF | 12.9 REF | 3.0 REF |

| Part number | K | L | M | N | O | P | | | | |
|-------------|---------|---------|----------|---------|---------|----------|--|--|--|--|
| FACSCM1260 | 3.0 REF | 6.9 REF | 11.1 REF | 3.0 REF | 2.8 REF | 13.5 REF | | | | |
| FACSCM1265 | 3.0 REF | 6.9 REF | 11.1 REF | 3.0 REF | 2.8 REF | 13.5 REF | | | | |

HIGH CURRENT POWER INDUCTOR FACSCM1460,1480 SERIES



FEATURES :

- Assemblage design, sturdy structure
- High inductance, high current, low magnetic loss
- low ESR, small parasitic capacitance
- Small volume, high current, low magnetic loss, low ESR
- small parasitic capacitance
- Temperature rise current and saturation current is less influenced by environment
- Operating temperature: -40°C ~ +125°C
- [Including coils temperature rise]

PRODUCT IDENTIFICATION:

- $\frac{CSCM}{a} \frac{1460}{b} - \frac{2R2}{c} \frac{M}{d}$
- 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]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | |
| FACSCM1460-R50M | 0.50 | 1.48 | 1.70 | 40.0 | 23.0 |
| FACSCM1460-R60M | 0.60 | 1.48 | 1.70 | 40.0 | 23.0 |
| FACSCM1460-1R2M | 1.20 | 2.70 | 3.00 | 37.3 | 19.5 |
| FACSCM1460-1R5M | 1.50 | 2.70 | 3.00 | 29.8 | 19.5 |
| FACSCM1460-2R2M | 2.20 | 4.35 | 4.80 | 26.0 | 15.0 |
| FACSCM1460-2R7M | 2.70 | 4.35 | 4.80 | 22.0 | 15.0 |
| FACSCM1460-3R5M | 3.50 | 5.67 | 6.24 | 21.7 | 12.0 |
| FACSCM1460-4R2M | 4.20 | 5.67 | 6.24 | 18.5 | 12.0 |
| FACSCM1460-5R0M | 5.00 | 8.42 | 9.26 | 18.2 | 9.50 |
| FACSCM1460-6R1M | 6.10 | 8.42 | 9.26 | 15.5 | 9.50 |

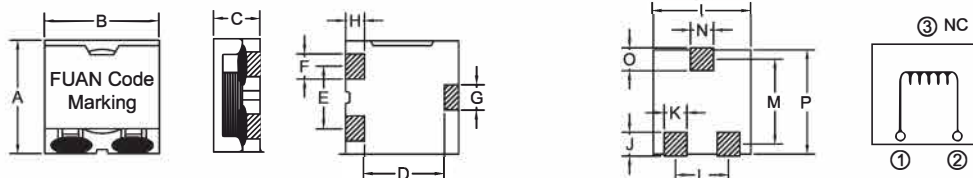
| Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | |
| FACSCM1480-R30M | 0.30 | 0.98 | 1.18 | 87.6 | 23.0 |
| FACSCM1480-R50M | 0.50 | 0.98 | 1.18 | 59.5 | 23.0 |
| FACSCM1480-R90M | 0.90 | 1.22 | 1.46 | 45.0 | 21.5 |
| FACSCM1480-1R2M | 1.20 | 1.69 | 2.02 | 44.7 | 20.0 |
| FACSCM1480-1R8M | 1.80 | 2.70 | 3.23 | 37.0 | 17.5 |
| FACSCM1480-2R4M | 2.40 | 2.70 | 3.23 | 28.0 | 17.5 |
| FACSCM1480-3R4M | 3.40 | 4.14 | 4.97 | 23.0 | 16.0 |
| FACSCM1480-4R7M | 4.70 | 5.02 | 6.03 | 19.0 | 12.5 |
| FACSCM1480-6R1M | 6.10 | 5.02 | 6.03 | 18.5 | 12.5 |
| FACSCM1480-8R0M | 8.00 | 6.50 | 7.80 | 12.2 | 11.0 |
| FACSCM1480-100M | 10.0 | 8.21 | 9.85 | 11.5 | 10.0 |
| FACSCM1480-120M | 12.0 | 11.1 | 13.3 | 10.0 | 8.50 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 20% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT40 (Ta=25°C).
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J |
|-------------|----------|----------|---------|----------|---------|---------|---------|---------|----------|---------|
| FACSCM1260 | 15.5 Max | 14.5±0.4 | 6.0 Max | 10.0 REF | 9.0 REF | 2.0-2.6 | 2.5 REF | 2.0 REF | 14.9 REF | 4.0 REF |
| FACSCM1265 | 15.5 Max | 14.5±0.4 | 8.0 Max | 10.0 REF | 9.0 REF | 2.0-2.6 | 2.5 REF | 2.0 REF | 14.9 REF | 4.0 REF |

| Part number | K | L | M | N | O | P | | | | |
|-------------|---------|---------|----------|---------|---------|----------|--|--|--|--|
| FACSCM1260 | 3.8 REF | 9.0 REF | 13.0 REF | 3.5 REF | 4.0 REF | 14.9 REF | | | | |
| FACSCM1265 | 3.8 REF | 9.0 REF | 13.0 REF | 3.5 REF | 4.0 REF | 14.9 REF | | | | |

HIGH CURRENT POWER INDUCTOR FACSCI1045,1050 SERIES



FEATURES:

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Assemblage design, sturdy structure
- Small volume, high current, low magnetic loss, low ESR small parasitic capacitance
- Temperature rise current and saturation current is less influenced by environment
- Operating temperature: -40°C ~ +125°C
[Including coils temperature rise]

PRODUCT IDENTIFICATION:

$$\frac{C}{a} \frac{S}{b} \frac{I}{c} \frac{1045}{d} - \frac{R}{e} \frac{22}{f} \frac{M}{g}$$

- 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

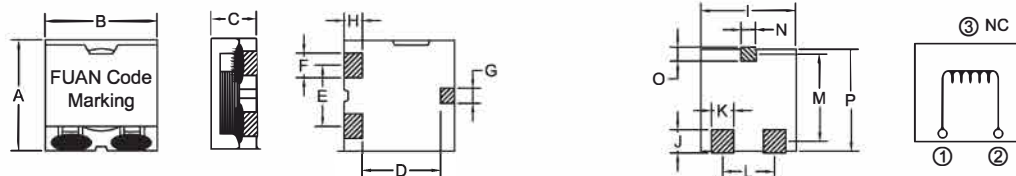
| Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical | Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSCI1045-R22M | 0.22 | 1.60 | 2.20 | 39.6 | 18.0 | FACSCI1050-1R5M | 1.50 | 8.20 | 9.00 | 18.0 | 10.0 |
| FACSCI1045-2R2M | 2.20 | 6.90 | 8.00 | 11.0 | 9.00 | FACSCI1050-2R2M | 2.20 | 7.30 | 8.00 | 11.0 | 8.50 |
| FACSCI1045-2R5M | 2.50 | 6.90 | 8.00 | 8.00 | 9.00 | | | | | | |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current: the actual value of DC current when the inductance decrease 20% of its initial value.
- Temperature rise current: the actual value of DC current when the temperature rise is ΔT40 [Ta=25°C].
- Special remind: Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J |
|-------------|----------|----------|---------|---------|---------|---------|---------|---------|----------|---------|
| FACSCI1045 | 10.5 Max | 10.0±0.4 | 4.5±0.3 | 6.7 REF | 5.6 REF | 2.0-2.6 | 1.5 REF | 2.0 REF | 10.4 REF | 2.5 REF |
| FACSCI1050 | 10.5 Max | 10.0±0.4 | 5.0±0.3 | 6.7 REF | 5.6 REF | 2.0-2.6 | 1.5 REF | 2.0 REF | 10.4 REF | 2.5 REF |

| Part number | K | L | M | N | O | P | | | | |
|-------------|---------|---------|----------|---------|---------|----------|--|--|--|--|
| FACSCI1045 | 3.0 REF | 5.6 REF | 8.85 REF | 2.0 REF | 1.8 REF | 10.5 REF | | | | |
| FACSCI1050 | 3.0 REF | 5.6 REF | 8.85 REF | 2.0 REF | 1.8 REF | 10.5 REF | | | | |

HIGH CURRENT POWER INDUCTOR FACSCI1056,1065 SERIES



FEATURES :

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Assemblage design, sturdy structure
- Small volume, high current, low magnetic loss, low ESR
- small parasitic capacitance
- Temperature rise current and saturation current is less influenced by environment
- Operating temperature: -40°C ~ +125°C
(Including coils temperature rise)

PRODUCT IDENTIFICATION:

C S C I 1045 - R 22 M
a b c d

- a:Series name
- b:Product dimensions
- c:Inductance Value [1R0:1.0uH;100;10uH;101:100uH]
- d:Inducatance Tolerance [K:10%;M:20%;N:30%]

ELECTRICAL CHARACTERISTICS

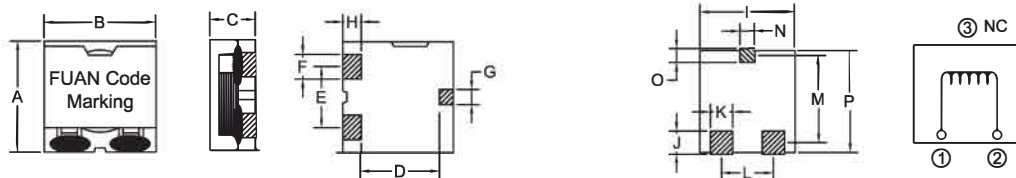
| Part Number | Inductance (uH)±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical | Part Number | Inductance (uH)±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSCI1056-1R3M | 1.30 | 4.20 | 4.90 | 16.0 | 11.0 | FACSCI1065-R36M | 0.36 | 1.09 | 1.30 | 30.0 | 23.0 |
| FACSCI1056-1R5M | 1.50 | 4.20 | 4.90 | 14.0 | 11.0 | FACSCI1065-1R4M | 1.40 | 2.00 | 2.40 | 17.0 | 16.5 |
| FACSCI1056-2R2M | 2.20 | 4.80 | 5.70 | 12.0 | 10.5 | FACSCI1065-1R5M | 1.50 | 2.87 | 3.50 | 17.0 | 14.0 |
| FACSCI1056-4R0M | 4.00 | 11.2 | 13.5 | 12.0 | 7.00 | FACSCI1065-2R2M | 2.20 | 3.30 | 4.00 | 14.0 | 13.0 |
| FACSCI1056-5R6M | 5.60 | 11.7 | 14.0 | 8.00 | 6.70 | FACSCI1065-5R6M | 5.60 | 7.80 | 9.50 | 9.00 | 8.00 |
| FACSCI1056-6R8M | 6.80 | 16.5 | 20.0 | 7.00 | 5.60 | FACSCI1065-6R8M | 6.80 | 10.5 | 12.5 | 8.00 | 7.20 |
| FACSCI1056-8R8M | 8.80 | 17.5 | 21.5 | 6.00 | 5.40 | FACSCI1065-100M | 10.0 | 17.2 | 21.0 | 6.00 | 5.70 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 20% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT40 (Ta=25°C).
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J |
|-------------|----------|----------|---------|---------|---------|---------|---------|---------|----------|---------|
| FACSCI1056 | 10.5 Max | 10.0±0.4 | 5.6±0.3 | 6.7 REF | 5.6 REF | 2.0-2.6 | 1.5 REF | 2.0 REF | 10.4 REF | 2.5 REF |
| FACSCI1065 | 10.5 Max | 10.0±0.4 | 6.5±0.3 | 6.7 REF | 5.6 REF | 2.0-2.6 | 1.5 REF | 2.0 REF | 10.4 REF | 2.5 REF |

| Part number | K | L | M | N | O | P | | | | |
|-------------|---------|---------|----------|---------|---------|----------|--|--|--|--|
| FACSCI1056 | 3.0 REF | 5.6 REF | 8.85 REF | 2.0 REF | 1.8 REF | 10.5 REF | | | | |
| FACSCI1065 | 3.0 REF | 5.6 REF | 8.85 REF | 2.0 REF | 1.8 REF | 10.5 REF | | | | |

HIGH CURRENT POWER INDUCTOR FACSCI1250,1256 SERIES



FEATURES :

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Assemblage design, sturdy structure
- Small volume, high current, low magnetic loss, low ESR small parasitic capacitance
- Temperature rise current and saturation current is less influenced by environment
- Operating temperature: -40°C~ +125°C [Including coil's temperature rise]

PRODUCT IDENTIFICATION:

C S C I 1045 - R 22 M
a b c 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

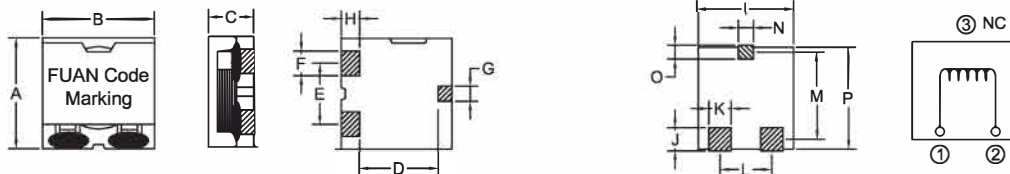
| Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical | Part Number | Inductance [uH]±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSCI1250-1R0M | 1.00 | 2.20 | 2.50 | 25.0 | 20.0 | FACSCI1256-R90M | 0.90 | 2.45 | 2.75 | 28.0 | 22.0 |
| FACSCI1250-4R0M | 4.00 | 7.30 | 8.20 | 8.00 | 11.0 | FACSCI1256-1R4M | 1.40 | 2.90 | 3.30 | 27.0 | 20.0 |
| FACSCI1250-5R6M | 5.60 | 11.6 | 13.0 | 8.00 | 8.00 | FACSCI1256-2R2M | 2.20 | 7.00 | 7.80 | 21.0 | 13.0 |
| FACSCI1250-7R2M | 7.20 | 12.6 | 14.0 | 6.00 | 7.50 | FACSCI1256-4R7M | 4.70 | 9.94 | 11.2 | 10.0 | 12.0 |
| FACSCI1250-8R8M | 8.80 | 18.0 | 20.0 | 5.00 | 7.00 | FACSCI1256-100M | 10.0 | 20.8 | 23.5 | 8.00 | 6.00 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 20% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT40 [Ta=25°C].
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J |
|-------------|----------|----------|---------|---------|---------|---------|---------|---------|----------|---------|
| FACSCI1250 | 13.5 Max | 12.5±0.4 | 5.0±0.3 | 9.0 REF | 6.9 REF | 2.0-2.6 | 2.6 REF | 2.0 REF | 12.9 REF | 3.0 REF |
| FACSCI1256 | 13.5 Max | 12.5±0.4 | 5.6 Max | 9.0 REF | 6.9 REF | 2.0-2.6 | 2.6 REF | 2.0 REF | 12.9 REF | 3.0 REF |

| Part number | K | L | M | N | O | P | | | | |
|-------------|---------|---------|----------|---------|---------|----------|--|--|--|--|
| FACSCI1250 | 3.0 REF | 6.9 REF | 11.1 REF | 3.0 REF | 2.8 REF | 13.5 REF | | | | |
| FACSCI1256 | 3.0 REF | 6.9 REF | 11.1 REF | 3.0 REF | 2.8 REF | 13.5 REF | | | | |

HIGH CURRENT POWER INDUCTOR FACSCI1260,1265 SERIES



FEATURES :

- Magnetic shielding structure, excellent resistance to electro magnetic interference
- Assemblage design, sturdy structure
- Small volume, high current, low magnetic loss, low ESR small parasitic capacitance
- Temperature rise current and saturation current is less influenced by environment
- Operating temperature: -40°C ~ +125°C
[Including coils temperature rise]

PRODUCT IDENTIFICATION:

CSC | 1045 - R22 M
a b c 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

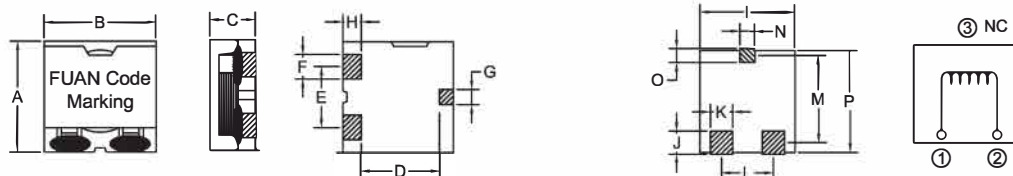
| Part Number | Inductance (uH)±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical | Part Number | Inductance (uH)±20% | DCR(mΩ) | | Saturation Current(A) Typical | Temperature Current(A) Typical |
|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|-----------------|---------------------|---------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | | | | Typical | Max | | |
| FACSCI1260-1R2M | 1.20 | 2.60 | 3.00 | 20.0 | 20.0 | FACSCI1265-1R0M | 1.00 | 1.90 | 2.20 | 22.0 | 18.0 |
| FACSCI1260-1R5M | 1.50 | 2.92 | 3.30 | 20.0 | 18.0 | FACSCI1265-2R0M | 2.00 | 3.50 | 4.00 | 14.0 | 18.0 |
| FACSCI1260-2R4M | 2.40 | 6.00 | 6.70 | 18.0 | 15.0 | FACSCI1265-6R0M | 6.00 | 9.10 | 10.2 | 8.50 | 12.0 |
| FACSCI1260-3R3M | 3.30 | 7.00 | 7.80 | 17.0 | 12.0 | FACSCI1265-7R0M | 7.00 | 11.0 | 12.4 | 8.00 | 10.0 |
| FACSCI1260-4R0M | 4.00 | 8.52 | 9.50 | 12.0 | 10.0 | FACSCI1265-8R0M | 8.00 | 12.0 | 13.5 | 7.50 | 9.50 |
| FACSCI1260-4R7M | 4.70 | 10.0 | 11.2 | 12.0 | 9.00 | FACSCI1265-120M | 12.0 | 21.0 | 23.5 | 7.00 | 9.00 |
| FACSCI1260-100M | 10.0 | 16.4 | 18.4 | 8.00 | 8.00 | | | | | | |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 20% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT40(Ta=25°C).
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J |
|-------------|----------|----------|---------|---------|---------|---------|---------|---------|----------|---------|
| FACSCI1260 | 13.5 Max | 12.5±0.4 | 6.0 Max | 9.0 REF | 6.9 REF | 2.0-2.6 | 2.6 REF | 2.0 REF | 12.9 REF | 3.0 REF |
| FACSCI1265 | 13.5 Max | 12.5±0.4 | 6.5±0.3 | 9.0 REF | 6.9 REF | 2.0-2.6 | 2.6 REF | 2.0 REF | 12.9 REF | 3.0 REF |

| Part number | K | L | M | N | O | P | | | | |
|-------------|---------|---------|----------|---------|---------|----------|--|--|--|--|
| FACSCI1260 | 3.0 REF | 6.9 REF | 11.1 REF | 3.0 REF | 2.8 REF | 13.5 REF | | | | |
| FACSCI1265 | 3.0 REF | 6.9 REF | 11.1 REF | 3.0 REF | 2.8 REF | 13.5 REF | | | | |

HIGH CURRENT POWER INDUCTOR FACPU2916 SERIES



FEATURES:

Assemblage design, sturdy structure.
 High inductance, high current, low magnetic loss,
 low ESR, small parasitic capacitance.
 Flat wire winding, achieve a low D.C. Resistance.
 Temperature rise current and saturation current is less
 influenced by environment.
 Operating temperature: -40°C ~ +125°C
 [including coils temperature rise].

PRODUCT IDENTIFICATION:

CPU 2916 - 3R3 MC

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%]

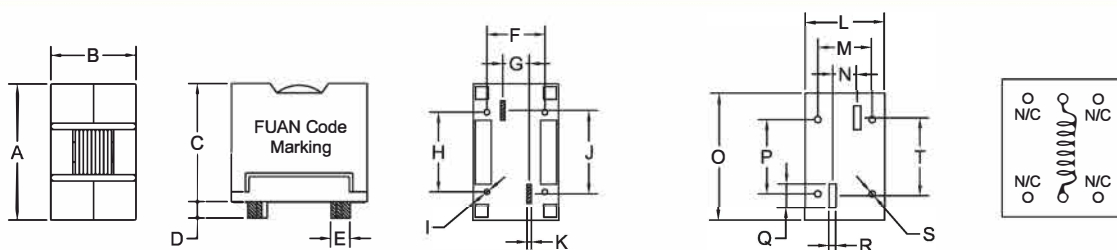
ELECTRICAL CHARACTERISTICS

| Part Number | Inductance [uH]±20% | D.C.Resistor[mΩ] | | Saturation Current [A]Typical | Temperature Current [A]Typical |
|-----------------|---------------------|------------------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | |
| FACPU2916-3R3MC | 3.30 | 2.30 | 2.60 | 104 | 26 |
| FACPU2916-4R7MC | 4.70 | 2.30 | 2.60 | 69 | 26 |
| FACPU2916-6R8MC | 6.80 | 2.30 | 2.60 | 53 | 26 |
| FACPU2916-100MC | 10.0 | 2.30 | 2.60 | 34 | 26 |
| FACPU2916-150MC | 15.0 | 2.30 | 2.60 | 23 | 26 |
| FACPU2916-220MC | 22.0 | 2.30 | 2.60 | 14.7 | 26 |
| FACPU2916-330MC | 33.0 | 2.30 | 2.60 | 9.20 | 26 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT 40 [Ta=25°C].
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K |
|-------------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|----------|
| FACPU2916 | 26.9±0.5 | 16.9 Max | 24.0 Max | 3.3±0.5 | 3.8±0.3 | 11.4±0.3 | 5.2±0.3 | 15.8±0.3 | 1.0±0.1 | 16.5±0.3 | 0.8±0.15 |
| Part number | L | M | N | O | P | Q | R | S | T | | |
| FACPU2916 | 16.9 REF | 11.4 REF | 5.2 REF | 27.4 REF | 15.8 REF | 5.0 REF | 1.4 REF | 1.3 REF | 16.5 REF | | |

HIGH CURRENT POWER INDUCTOR FACSCD1250 SERIES



FEATURES:

- Magnetic shielding structure, excellent resistance to electro magnetic interference.
- Assemblage design, sturdy structure.
- Small volume, high current, low magnetic loss, low ESR, small parasitic capacitance.
- Temperature rise current and saturation current is less influenced by environment.
- Operating temperature: -40°C ~ +125°C (including coils temperature rise).

PRODUCT IDENTIFICATION:

$$\frac{C}{a} \frac{S}{b} \frac{D}{c} \frac{1250}{d} - \frac{1R0}{c} \frac{M}{d}$$

- 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

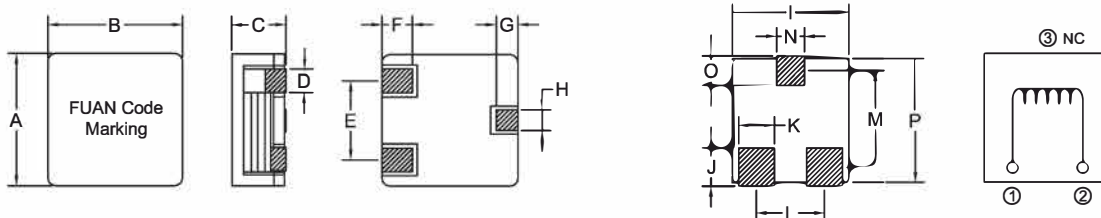
| Part Number | Inductance [uH]±20% | D.C.Resistor[mΩ] | | Saturation Current [A]Typical | Temperature Current [A]Typical |
|-----------------|---------------------|------------------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | |
| FACSCD1250-R50M | 0.50 | 0.70 | 0.90 | 42.0 | 29.0 |
| FACSCD1250-1R0M | 1.00 | 1.50 | 1.80 | 23.0 | 21.0 |
| FACSCD1250-1R5M | 1.50 | 2.80 | 3.50 | 18.0 | 16.0 |
| FACSCD1250-2R2M | 2.20 | 3.50 | 4.00 | 15.0 | 14.0 |
| FACSCD1250-3R3M | 3.30 | 6.00 | 6.75 | 15.0 | 13.0 |
| FACSCD1250-4R7M | 4.70 | 6.00 | 6.75 | 12.0 | 13.0 |
| FACSCD1250-100M | 10.0 | 13.8 | 15.5 | 6.00 | 10.0 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of DC current when the inductance decrease 30% of its initial value.
- Temperature rise current : the actual value of DC current when the temperature rise is ΔT 40 (Ta=25°C).
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. All will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K |
|-------------|----------|----------|---------|---------|----------|---------|---------|---------|----------|---------|---------|
| FACSCD1250 | 13.5 Max | 12.8±0.2 | 5.3 Max | 2.4±0.2 | 7.6 REF | 2.5±0.5 | 2.0 REF | 2.0 REF | 13.0 REF | 4.0 REF | 4.0 REF |
| Part number | L | M | N | O | P | | | | | | |
| FACSCD1250 | 7.6 REF | 10.5 REF | 3.0 REF | 3.0 REF | 13.5 REF | | | | | | |

HIGH CURRENT POWER INDUCTOR FACPT3020 SERIES



FEATURES:

- Magnetic shielded structure: excellent resistance to electromagnetic interference.
- Assemblage design, sturdy structure.
- High inductance, high current, low magnetic loss, low E SR, small parasitic capacitance.
- High temperature wire, closed magnetic circuit, ultra low buzz noise.
- Operating temperature: -40°C~ +125°C [Including coils temperature rise].

PRODUCT IDENTIFICATION:

- CPT 3020 - 100 M
- a b c 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

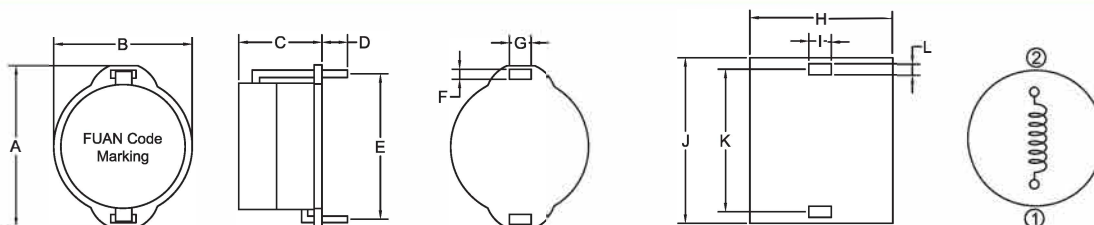
| Part Number | Inductance [uH]±20% | D.C.Resistor[mΩ] | | Saturation Current [A]Typical | Temperature Current [A]Typical |
|----------------|---------------------|------------------|------|-------------------------------|--------------------------------|
| | | Typical | Max | | |
| FACPT3020-100M | 10 | 1.45 | 1.70 | 30.0 | 25.0 |

TEST CONDITIONS

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 100kHz, 0.1V.
- Saturation current : the actual value of IDC current when the inductance decrease 30% of its initial value.
- Temperature rise current : the actual value of IDC current when the temperature rise is ΔT 40 (Ta=25°C).
- Special remind : Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

TECHNICAL INFORMATION

ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

| Part number | A | B | C | D | E | F | G | H | I | J | K | L |
|-------------|----------|----------|----------|---------|----------|---------|---------|----------|---------|----------|----------|---------|
| FACPT3020 | 38.0±1.0 | 32.5±1.0 | 21.0 Max | 5.0±0.5 | 33.5±1.0 | 1.5±0.3 | 4.0±0.3 | 33.5 REF | 5.0 REF | 39.0 REF | 33.5 REF | 2.0 REF |