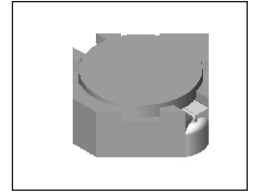


SMT Power Inductor

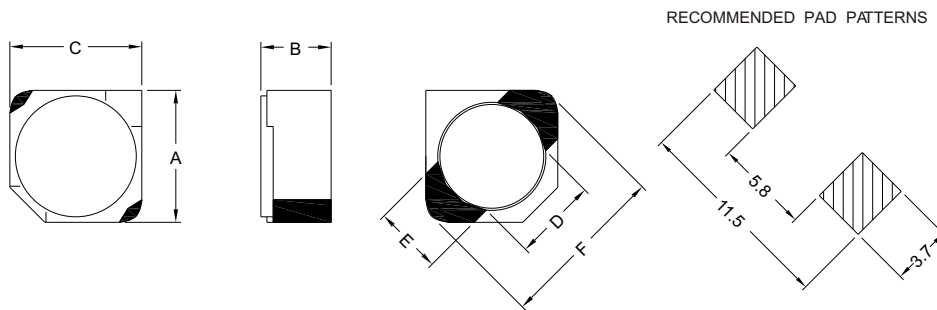
SILM8030 Type

Features

- RoHS compliant.
- Low profile, SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:



UNIT:mm/inch
 A = 8.0 ± 0.3 / 0.315 ± 0.012
 B = 3.0 / 0.118Max.
 C = 8.0 ± 0.3 / 0.315 ± 0.012
 D = 6.5 / 0.256
 E = 3.0 / 0.118
 F = 10.5 / 0.413 Max.

Electrical Characteristics: 25°C: 100KHz, 0.1V

| PART NO. | L ¹ (μH) | DCR (mΩ) MAX | I _{rated} ² (Adc) |
|----------------|------------------------|-----------------|--|
| SILM8030 - 2R5 | 2.5 | 15.6 | 4.50 |
| SILM8030 - 3R3 | 3.3 | 18.2 | 4.00 |
| SILM8030 - 4R7 | 4.7 | 24.7 | 3.40 |
| SILM8030 - 7R3 | 7.3 | 39.0 | 2.80 |
| SILM8030 - 100 | 10.0 | 47.0 | 2.50 |
| SILM8030 - 150 | 15.0 | 69.0 | 1.90 |
| SILM8030 - 220 | 22.0 | 99.0 | 1.60 |
| SILM8030 - 330 | 33.0 | 156.0 | 1.30 |
| SILM8030 - 470 | 47.0 | 195.0 | 1.15 |
| SILM8030 - 680 | 68.0 | 286.0 | 0.92 |
| SILM8030 - 101 | 100.0 | 430.0 | 0.75 |

1. Tolerance of inductance : ± 30%.
2. I_{rated} is the DC current which cause the inductance drop 35% of its nominal inductance without current and the surface temperature of the part increase less than 45°C.
3. Operating temperature: -20°C to 105°C (including self-temperature rise).



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