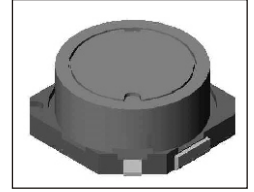


SMT Power Inductor

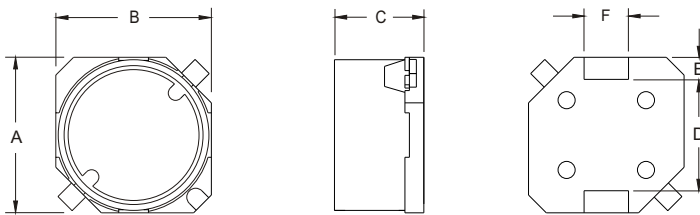
SIWC73 Type

Features

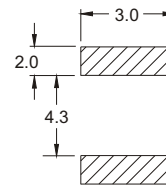
- RoHS compliant.
- Small size (7.3mm*7.3mm), low profile (3.5mm max. height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor application.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:



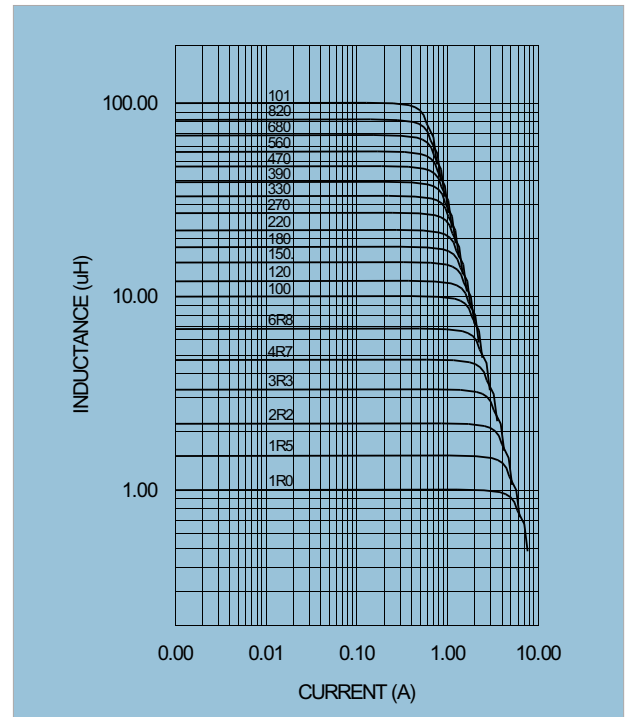
RECOMMENDED PAD PATTERNS



UNIT:mm/inch
 A = 7.6 / 0.299 Max.
 B = 7.6 / 0.299 Max.
 C = 3.5 / 0.138 Max.
 D = 5.3±0.1 / 0.209±0.004
 E = 1.0 / 0.039
 F = 2.0 / 0.079

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

| PART NO. | L ¹ (uH) | DCR (Ω) MAX | I _{rated} ² (Adc) |
|--------------|------------------------|----------------|--|
| SIWC73 - 1R0 | 1.0 | 0.019 | 3.12 |
| SIWC73 - 1R5 | 1.5 | 0.023 | 2.85 |
| SIWC73 - 2R2 | 2.2 | 0.028 | 2.66 |
| SIWC73 - 3R3 | 3.3 | 0.035 | 2.26 |
| SIWC73 - 4R7 | 4.7 | 0.043 | 1.96 |
| SIWC73 - 6R8 | 6.8 | 0.055 | 1.76 |
| SIWC73 - 100 | 10.0 | 0.080 | 1.34 |
| SIWC73 - 120 | 12.0 | 0.090 | 1.23 |
| SIWC73 - 150 | 15.0 | 0.120 | 1.09 |
| SIWC73 - 180 | 18.0 | 0.130 | 0.99 |
| SIWC73 - 220 | 22.0 | 0.150 | 0.90 |
| SIWC73 - 270 | 27.0 | 0.210 | 0.81 |
| SIWC73 - 330 | 33.0 | 0.250 | 0.72 |
| SIWC73 - 390 | 39.0 | 0.310 | 0.67 |
| SIWC73 - 470 | 47.0 | 0.350 | 0.60 |
| SIWC73 - 560 | 56.0 | 0.430 | 0.55 |
| SIWC73 - 680 | 68.0 | 0.520 | 0.50 |
| SIWC73 - 820 | 82.0 | 0.600 | 0.46 |
| SIWC73 - 101 | 100.0 | 0.790 | 0.41 |



1. Tolerance of inductance: ±20%.
2. I_{rated} is the DC current which cause the inductance drop 10% typical 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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