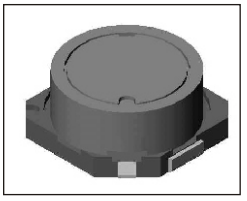
SMT Power Inductor

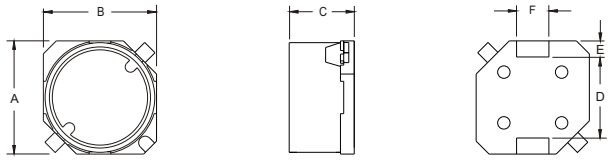
SIWC75 Type

Features

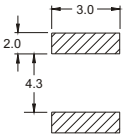
- RoHS compliant.
- Small size (7.3mm*7.3mm), low profile (5.2mm max. height) SMD type.
- Suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Idel for power source circuits, DC-DC converter, DC-AC inverters inductor application.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:



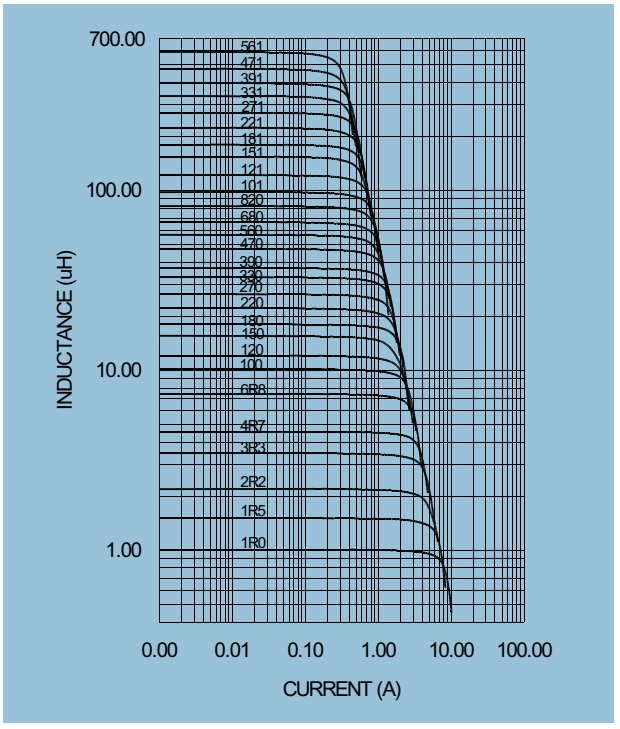
RECOMMENDED PAD PATTERNS



UNIT:mm/inch
A = 7.6 / 0.299 Max.
B = 7.6/ 0.299 Max.
C = 5.2/ 0.205 Max.
D = 5.3±0.1 / 0.209±0.004
E = 1.0 / 0.039
F = 2.0 / 0.079

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

PART NO.	L [1] (uH)	DCR (Ω)MAX	Irated [2] (Adc)
SIWC75 - 1R0	1.0	0.020	2.80
SIWC75 - 1R5	1.5	0.024	2.60
SIWC75 - 2R2	2.2	0.028	2.40
SIWC75 - 3R3	3.3	0.034	2.20
SIWC75 - 4R7	4.7	0.039	2.00
SIWC75 - 6R8	6.8	0.050	1.80
SIWC75 - 100	10.0	0.055	1.70
SIWC75 - 120	12.0	0.073	1.50
SIWC75 - 150	15.0	0.081	1.40
SIWC75 - 180	18.0	0.102	1.20
SIWC75 - 220	22.0	0.115	1.10
SIWC75 - 270	27.0	0.159	1.00
SIWC75 - 330	33.0	0.182	0.85
SIWC75 - 390	39.0	0.199	0.80
SIWC75 - 470	47.0	0.221	0.75
SIWC75 - 560	56.0	0.306	0.65
SIWC75 - 680	68.0	0.345	0.60
SIWC75 - 820	82.0	0.390	0.57
SIWC75 - 101	100.0	0.432	0.50
SIWC75 - 121	120.0	0.440	0.47
SIWC75 - 151	150.0	0.730	0.40
SIWC75 - 181	180.0	0.780	0.39
SIWC75 - 221	220.0	0.940	0.33
SIWC75 - 271	270.0	1.250	0.31
SIWC75 - 331	330.0	1.400	0.27
SIWC75 - 391	390.0	1.520	0.27
SIWC75 - 471	470.0	1.700	0.25
SIWC75 - 561	560.0	2.390	0.23



1. Tolerance of inductance: ±20%.
2. Irated 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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