

SMT Power Inductor

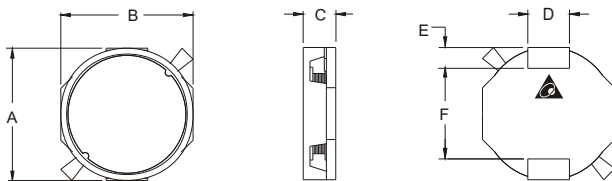
SIWC1360 Type

Features

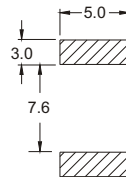
- RoHS compliant.
- Low profile (6.3mm max. height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor application.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:



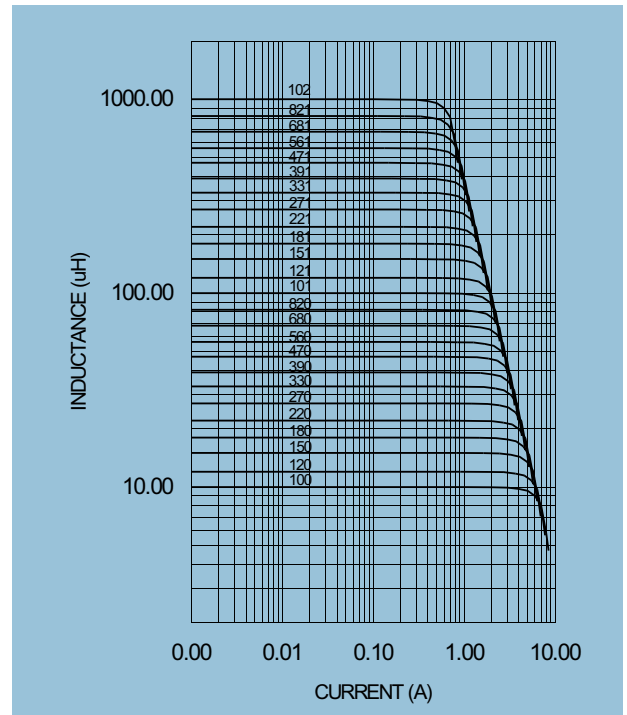
RECOMMENDED PAD PATTERNS



UNIT:mm/inch
 A = 13.0 / 0.512 Max.
 B = 13.0 / 0.512 Max.
 C = 6.0 ± 0.3 / 0.236 ± 0.012
 D = 4.0 / 0.157
 E = 2.0 / 0.079
 F = 8.6 ± 0.1 / 0.339 ± 0.004

Electrical Characteristics: 25°C: 1KHz, 1V

PART NO.	L ₁ (μH)	DCR (Ω)MAX	I _{rated} ² (Adc)
SIWC1360 - 100	10	0.022	4.40
SIWC1360 - 120	12	0.027	4.20
SIWC1360 - 150	15	0.034	4.00
SIWC1360 - 180	18	0.038	3.50
SIWC1360 - 220	22	0.044	3.20
SIWC1360 - 270	27	0.048	2.90
SIWC1360 - 330	33	0.059	2.50
SIWC1360 - 390	39	0.078	2.10
SIWC1360 - 470	47	0.084	2.00
SIWC1360 - 560	56	0.100	1.90
SIWC1360 - 680	68	0.113	1.80
SIWC1360 - 820	82	0.137	1.50
SIWC1360 - 101	100	0.152	1.50
SIWC1360 - 121	120	0.197	1.30
SIWC1360 - 151	150	0.239	1.30
SIWC1360 - 181	180	0.302	1.10
SIWC1360 - 221	220	0.341	1.10
SIWC1360 - 271	270	0.428	0.98
SIWC1360 - 331	330	0.510	0.86
SIWC1360 - 391	390	0.587	0.83
SIWC1360 - 471	470	0.765	0.70
SIWC1360 - 561	560	0.872	0.70
SIWC1360 - 681	680	1.162	0.62
SIWC1360 - 821	820	1.313	0.57
SIWC1360 - 102	1000	1.586	0.46



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