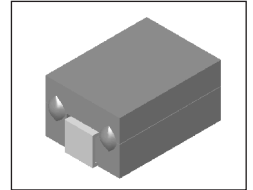


SMT Power Inductor

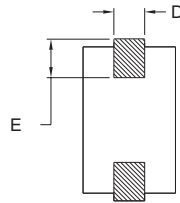
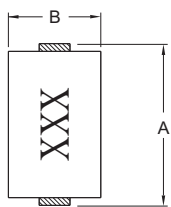
HCB1047B Type

Features

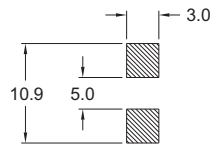
- RoHS compliant.
- Low profile, SMD type.
- High current.
- Magnetic shielded.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here,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



Mechanical Dimension :



RECOMMENDED PAD PATTERNS



UNIT : mm/inch
 A = 10.40 / 0.409 Max.
 B = 7.00 / 0.276 Max.
 C = 4.70 / 0.185 Max.
 D = 2.50 / 0.098
 E = 2.00 / 0.079

Electrical Characteristics : At 25°C: 100KHz, 1V

PART NO.	L^1 (nH)	L_i (nH)	DCR (m Ω) MAX	I_{sat}^2 (A dc)	I_{rms}^3 (A dc)
HCB1047B-101L	100	80	0.30	60	47
HCB1047B-151L	150	120	0.30	40	47
HCB1047B-221L	220	176	0.30	25	47

1. Tolerance of inductance is $\pm 20\%$.
2. I_{sat} is the DC current which cause the inductance drop not lower than L_i .
3. I_{rms} is the DC current which cause the surface temperature of the part increase less than 45°C.
4. Operating temperature : -20°C to 105°C (including self-temperature rise).



DELTA ELECTRONICS, INC.

(TAOYUAN PLANT CPBG) 252, SAN YING ROAD, KUEISAN INDUSTRIAL ZONE, TAOYUAN SHIEN, 333, TAIWAN, R.O.C.

TEL: 886-3-3591968; FAX: 886-3-3591991

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