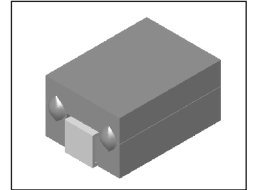


SMT Power Inductor

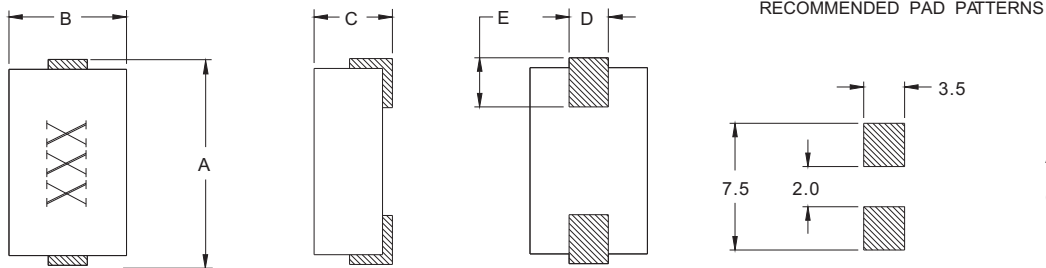
HCB0730 Type

Features

- RoHS compliant.
- Small size, low profile, SMD type.
- Magnetic 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.



Mechanical Dimension :



UNIT : mm/inch
 A = 7.0 / 0.276 Max.
 B = 7.0 / 0.276 Max.
 C = 3.0 / 0.118 Max.
 D = 2.5 / 0.098
 E = 2.0 / 0.079

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

PART NO.	L ¹ (nH)	DCR (mΩ) MAX	I _{sat} ² (Adc)	I _{rms} ³ (Adc)
HCB0730-470	47	0.3	42	39
HCB0730-680	68	0.3	32	39
HCB0730-820	82	0.3	26	39
HCB0730-101	100	0.3	22	39
HCB0730-121	120	0.3	18	39

1. Tolerance of inductance is $\pm 20\%$.
2. I_{sat} is the DC current which cause the inductance drop approximately 30% of its nominal inductance without current.
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).



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