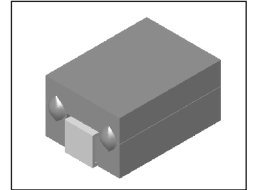


SMT Power Inductor

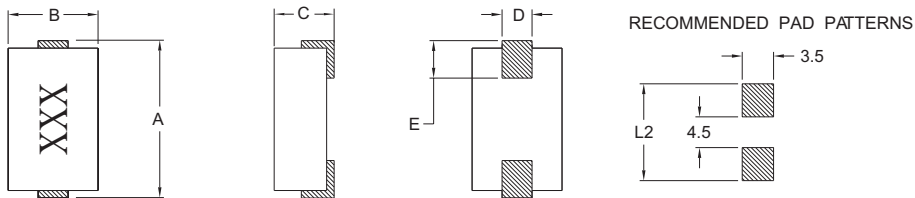
HCB1050 Type

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
 B = 7.00 / 0.276 Max.
 D = 2.50 / 0.098
 E = 2.00 / 0.079

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

PART NO.	L ¹ (nH)	Li (nH) Min.	DCR (mΩ) MAX	I _{sat} ² (Adc)	I _{rms} ³ (Adc)	A (mm) MAX	C (mm) MAX	L2 (mm) MAX
HCB1050-800	80	64	0.55	77	37	10.0	5.0	10.5
HCB1050-101	100	80	0.55	62	37	10.0	5.0	10.5
HCB1050-121	120	96	0.55	53	37	10.0	5.0	10.5
HCB1050-151	150	120	0.55	44	37	10.0	5.0	10.5
HCB1050-201	200	160	0.55	32	37	10.0	5.0	10.5
HCB1050-800L	80	64	0.30	77	47	10.4	5.2	10.9
HCB1050-101L	100	80	0.30	62	47	10.4	5.2	10.9
HCB1050-121L	120	96	0.30	53	47	10.4	5.2	10.9
HCB1050-151L	150	120	0.30	44	47	10.4	5.2	10.9
HCB1050-201L	200	160	0.30	32	47	10.4	5.2	10.9

1. Tolerance of inductance is $\pm 20\%$.
2. I_{sat} is the DC current which cause the inductance drop not lower than Li.
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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