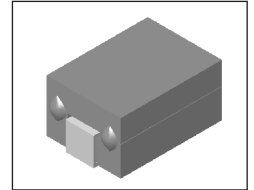


# SMT Power Inductor

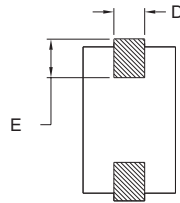
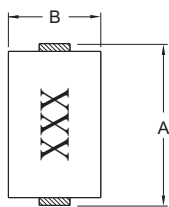
## HCB0750 Type

### Features

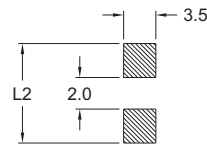
- RoHS compliant.
- Small size, low profile, SMD type.
- Magnetic shielded, suitable for high density mounting..
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.



### Mechanical Dimension :



### RECOMMENDED PAD PATTERNS



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 <sup>1</sup> (nH)	Li (nH)Min.	DCR (mΩ) MAX	I <sub>sat</sub> <sup>2</sup> (Adc)	I <sub>rms</sub> <sup>3</sup> (Adc)	A (mm) MAX	C (mm) MAX	L2 (mm) MAX
HCB0750-700	70	56	0.5	65	35	7.0	5.0	7.5
HCB0750-101	100	80	0.5	48	35	7.0	5.0	7.5
HCB0750-121	120	96	0.5	38	35	7.0	5.0	7.5
HCB0750-151	150	120	0.5	32	35	7.0	5.0	7.5
HCB0750-700L	70	56	0.3	65	42	7.2	5.2	7.7
HCB0750-101L	100	80	0.3	48	42	7.2	5.2	7.7
HCB0750-121L	120	96	0.3	38	42	7.2	5.2	7.7
HCB0750-151L	150	120	0.3	32	42	7.2	5.2	7.7

1. Tolerance of inductance is  $\pm 20\%$ .
2. I<sub>sat</sub> is the DC current which cause the inductance drop not lower than Li.
3. I<sub>rms</sub> 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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