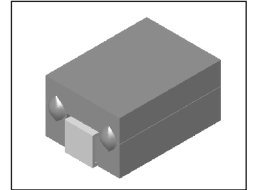


# SMT Power Inductor

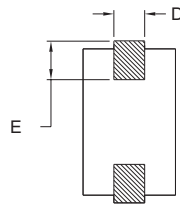
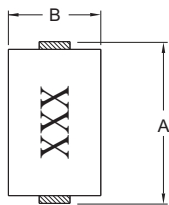
## HCB0747 Type

### Features

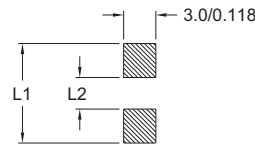
- RoHS compliant.
- Low profile, SMD type.
- High current.
- Magnetic shielded.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here,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



### Mechanical Dimension :



### RECOMMENDED PAD PATTERNS



UNIT : mm/inch  
 B = 7.00 / 0.276 Max.  
 C = 4.70 / 0.185 Max.  
 D = 2.50 / 0.098  
 E = 1.50 / 0.059

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

PART NO.	L <sup>1</sup> (nH)	Li (nH)	DCR (mΩ) MAX	I <sub>sat</sub> <sup>2</sup> (Adc)	I <sub>rms</sub> <sup>3</sup> (Adc)	A (mm/inch) MAX	L1 (mm/inch)	L2 (mm/inch)
HCB0747A-800	80	64	0.40	51	35	7.0/0.276	7.5/0.295	3.0/0.118
HCB0747A-960	96	80	0.40	40	35	7.0/0.276	7.5/0.295	3.0/0.118
HCB0747A-111	110	80	0.40	40	35	7.0/0.276	7.5/0.295	3.0/0.118
HCB0747A-141	140	100	0.40	35	35	7.0/0.276	7.5/0.295	3.0/0.118
HCB0747B-101	100	80	0.40	45	35	7.0/0.276	7.5/0.295	3.0/0.118
HCB0747B-121	120	96	0.40	40	35	7.0/0.276	7.5/0.295	3.0/0.118
HCB0747B-151	150	100	0.40	35	35	7.0/0.276	7.5/0.295	3.0/0.118
HCB0747B-181	180	144	0.40	20	35	7.0/0.276	7.5/0.295	3.0/0.118
HCB0747B-221	220	176	0.40	15	35	7.0/0.276	7.5/0.295	3.0/0.118
HCB0747B-101L	100	80	0.30	40	42	7.4/0.291	7.9/0.311	3.9/0.154
HCB0747B-121L	120	96	0.30	35	42	7.4/0.291	7.9/0.311	3.9/0.154
HCB0747B-151L	150	120	0.30	25	42	7.4/0.291	7.9/0.311	3.9/0.154
HCB0747B-181L	180	144	0.30	20	42	7.4/0.291	7.9/0.311	3.9/0.154
HCB0747B-221L	220	176	0.30	15	42	7.4/0.291	7.9/0.311	3.9/0.154
HCB0747BS-101L	100	80	0.30	38	42	7.0/0.276	7.5/0.295	3.0/0.118
HCB0747BS-151L	150	120	0.30	22	42	7.0/0.276	7.5/0.295	3.0/0.118

1. Tolerance of inductance is ± 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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