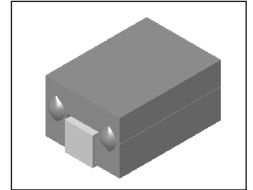


# SMT Power Inductor

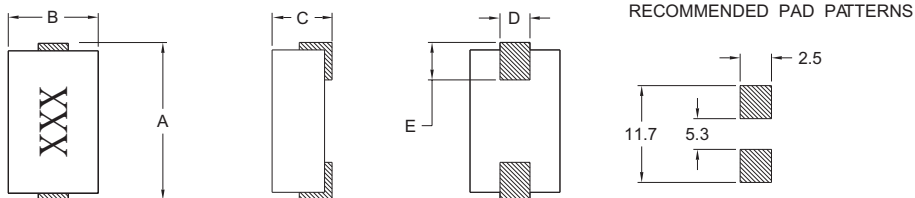
## HC B1190B Type

### 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 = 11.20 / 0.441 Max.  
 B = 11.20 / 0.441 Max.  
 C = 9.00 / 0.354 Max.  
 D = 2.00 / 0.079  
 E = 2.50 / 0.098

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

PART NO.	L <sup>1</sup> (nH)	DCR (mΩ) MAX	Isat <sup>2</sup> (Adc)	I <sub>rms</sub> <sup>3</sup> (Adc)
HCB1190B-221	225	0.70	65	35
HCB1190B-271	270	0.70	55	35
HCB1190B-321	325	0.70	40	35
HCB1190B-471	470	0.70	40	35

1. Tolerance of inductance is  $\pm 20\%$ .
2. Isat is the DC current which cause the inductance drop approximately 20% of its nominal inductance without current.
3. Irms is the DC current which cause the surface temperature of the part increase less than 55°C.
4. Operating temperature : -20°C to 105°C ( including self-temperature rise ).



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