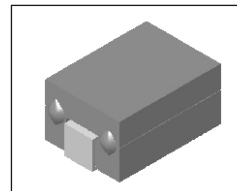


SMT Power Inductor

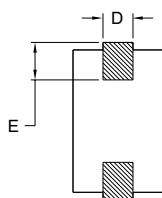
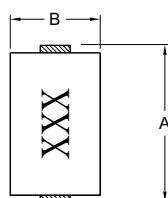
HCB1190B Type

Features

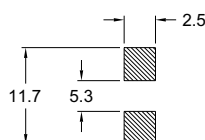
- RoHS compliant.
- Small size, low profile, SMD type.
- Magnetic shielded, suitable for high density mounting..
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.



Mechanical Dimension :



RECOMMENDED PAD PATTERNS



UNIT : mm/inch
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^1 (nH) | DCR (mΩ) MAX | I_{sat}^2 (Adc) | I_{rms}^3 (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 | 28 | 35 |

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