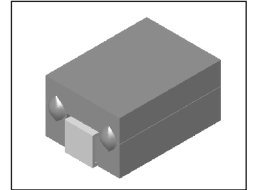


# SMT Power Inductor

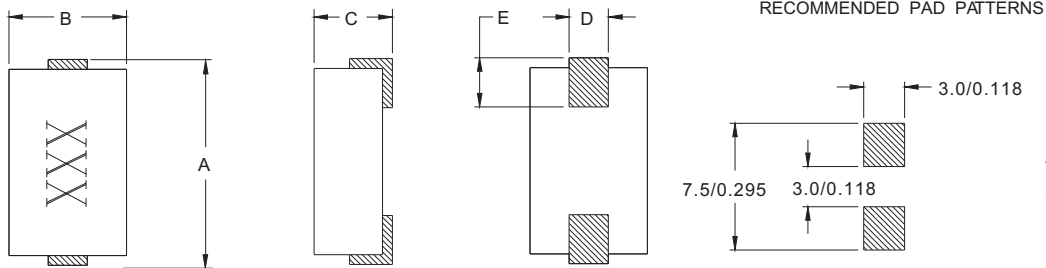
## HCB0740A Type

### 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 :



UNIT : mm/inch  
 A = 7.00 / 0.276 Max.  
 B = 7.00 / 0.276 Max.  
 C = 4.00 / 0.157 Max.  
 D = 2.50 / 0.098  
 E = 1.50 / 0.079

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

| PART NO.     | $L_o^1$<br>(nH) | $L_i$<br>(nH) | DCR<br>(mΩ) MAX | $I_{sat}^2$<br>(A dc) | $I_{rms}^3$<br>(A dc) |
|--------------|-----------------|---------------|-----------------|-----------------------|-----------------------|
| HCB0740A-101 | 100             | 80            | 0.40            | 35                    | 37                    |
| HCB0740A-151 | 150             | 96            | 0.40            | 23                    | 37                    |
| HCB0740A-201 | 200             | 160           | 0.40            | 15                    | 37                    |
| HCB0740A-471 | 470             | 376           | 0.40            | 10                    | 37                    |

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