High Current Sendust Cores (HC 107 Series)

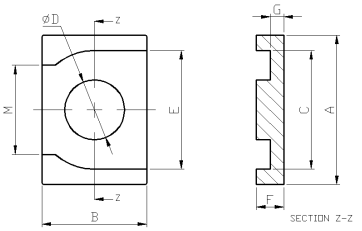
Description :

HC 107 series High Current Sendust Core has high operating frequency, high saturation current, low DCR and can be designed for thermal aging free up to 200°C. The core is not easy breakdown up to 200°C when exposed to elevated environment temperature or generate elevated temperature by itself. The common application is for High Current Inductors, with 10mm x 7mm dimension and consist by E+I core.

RoHS Compliant 2002/95/EC

Feature :

- Thermal aging free up to 200°C
- High operating Frequency
- High saturation current
- Low height / Low buzz noise
- Low DCR / Low inductance

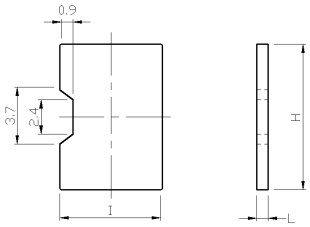


E core

A : 10.0
B : 7.0
C : 8.0
D : 4.0
E : 6.0
M : 6.0
F : customized
G : customized

Application :

A high current inductor designed in Notebook, Desktop computer , Server, VGA card , DC/DC converter, PDA



I core

H : 10.0
I : 7.0
L : customized

Electrical Specifications for reference :

No	Inductance (0A dc)	I sat (A dc)	I rms (A dc)	Typ. DCR (m-ohm)	Core Shape	Total Height (mm)
1	2.80 uH	13.5	9.5	6.1	E + I	4.75
2	2.10 uH	16.0	11.5	3.9	E + I	4.70
3	1.50 uH	19.0	15.7	2.5	E + I	4.65
4	1.30 uH	20.0	16.7	2.3	E + I	5.00
5	1.00 uH	16.0	12.5	2.4	E + I	5.00
6	0.75 uH	20.0	13.0	2.0	E + I	4.70

* I sat : The DC current at which the inductance drops 20% from its initial value or temperature rise 80°C. (depends on which current is lower)
* I rms : The DC current causes the core temperature rise 40 °C. (Test condition : 100KHz , 0.1V)
* The reading values are typical only, will changed with different material, dimension and coil.
* Other materials and custom parts are also available.