

Power Choke Coil MHIB1013 type

■ Features

High performance (Isat) realized by metal dust core.

Low profile : Thickness max. 1.5mm

Low loss realized with low DCR

Capable of corresponding high frequency (1MHz)

100% lead (Pb) free meet RoHS standard

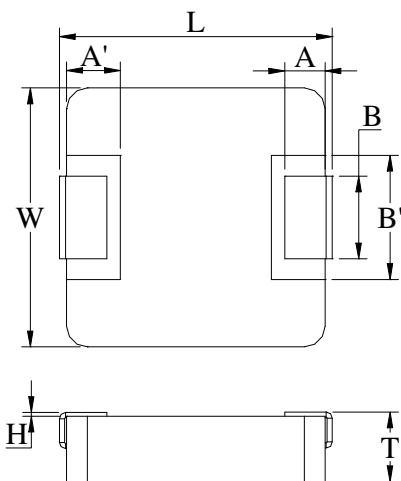
■ Application

DC/DC converter for CPU in Notebook PC

Thin type on-board power supply module for exchanger

VRM for server

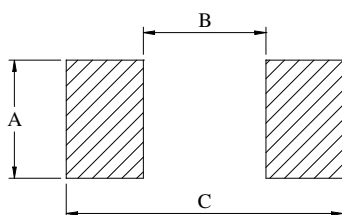
■ Outline Dimensions



Code	Dimensions (mm)
L	10.85 ± 0.35
W	10 ± 0.3
T	1.3 ± 0.2
A	2.0 ± 0.5
A'	2.5 ± 0.1
B	3.0 ± 0.5
B'	5.0 ± 0.2
H	0 ~ +0.15

■ Recommend Land Pattern Dimensions

The customer shall determine the land dimensions shown below after confirming and safety.



A	4.1
B	5.4
C	13.6

Unit : mm



■ Specifications

Part Number	L0 Inductance (μH) @ (0A)	R_{dc} ($m\Omega$)		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
MHIB1013-R68M	0.68	15.0	16.0	7.5	16.0
MHIB1013-R82M	0.82	16.0	18.0	6.0	14.0
MHIB1013-1R0M	1.0	18.0	21.0	5.5	12.0
MHIB1013-3R3M	3.3	62.0	70.0	4.0	6.5
MHIB1013-4R7M	4.7	83.0	95.0	3.0	6.0

* : If you require another part number please contact with us.

** : Inductance Tolerance $\pm 20\%$

Note 1. : All test data is referenced to 25°C ambient.

Note 2. : Test Condition: 100KHz, 1.0Vrms

Note 3. : Idc : DC current (A) that will cause an approximate ΔT of 40°C

Note 4. : Isat : DC current (A) that will cause L0 to drop approximately 30%

Note 5. : Operating Temperature Range -55°C to + 125°C

Note 6. : The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design , component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

Note 7. : The rated current as listed is either the saturation current or the heating current depending on which value is lower.



■ Current Characteristic

