

Power Choke Coil MHIB0650 type

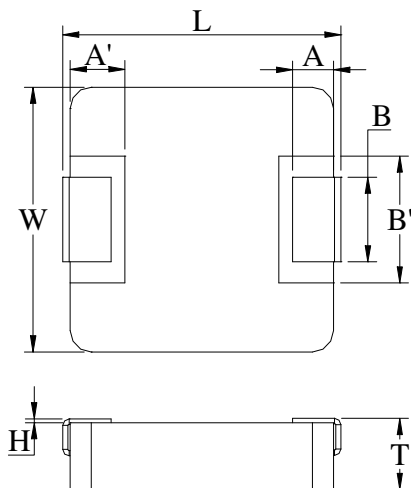
■ Features

High performance (Isat) realized by metal dust core.
 Low profile : Thickness max. 5.0mm
 Low loss realized with low DCR
 Capable of corresponding high frequency (2MHz)
 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

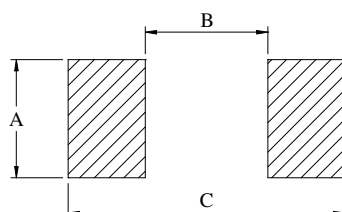
■ Outline Dimensions



Code	Dimensions(mm)
L	7.05 ± 0.35
W	6.6 ± 0.2
T	4.8 ± 0.2
A	1.6 ± 0.3
A'	2.0 ± 0.1
B	3.0 ± 0.3
B'	3.6 ± 0.2
H	0 ~ +0.15

■ Recommend Land Pattern Dimensions

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



A	3.5
B	3.7
C	8.4

Unit : mm



■ Specifications

Part Number	L0 Inductance (μH) @ (0A)	R _{dc} (m Ω)		Heat Rating Current DC Amps. I _{dc} (A)	Saturation Current DC Amps. I _{sat} (A)
		Typical	Maximum	Typical	Typical
MHIB0650-R13M	0.13	1.0	1.2	42.0	48.0
MHIB0650-R22M	0.22	1.1	1.3	30.0	35.0
MHIB0650-R36M	0.36	2.7	3.1	21.0	25.0
MHIB0650-R40M	0.4	3.2	3.5	20.0	23.0
MHIB0650-R47M	0.47	3.25	3.75	20.0	21.0
MHIB0650-R56M	0.56	3.4	3.6	20.0	18.0
MHIB0650-R68M	0.68	3.9	4.2	18.0	16.0
MHIB0650-R82M	0.82	4.6	4.9	16.5	17.0
MHIB0650-1R0M	1.0	5.6	6.5	13.0	15.0
MHIB0650-1R2M	1.2	6.0	7.5	12.0	13.0
MHIB0650-1R5M	1.5	6.0	7.5	11.0	12.0
MHIB0650-2R2M	2.2	11.2	12.5	10.5	12.0
MHIB0650-3R3M	3.3	19.9	20.9	8.5	9.0
MHIB0650-4R7M	4.7	23.0	25.0	6.5	7.0
MHIB0650-5R6M	5.6	31.5	34.4	6.0	7.0
MHIB0650-6R8M	6.8	36.5	41.0	5.5	6.0
MHIB0650-8R2M	8.2	40.0	43.0	5.5	5.5
MHIB0650-100M	10.0	48.0	55.0	4.5	5.3
MHIB0650-150M	15.0	110.0	127.0	3.1	3.4
MHIB0650-220M	22.0	165.0	190.0	2.6	2.8

* : 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. : I_{dc} : DC current (A) that will cause an approximate ΔT of 40°C

Note 4. : I_{sat} : 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

