



Power Choke Coil MHIB0630 type

■ Features

High performance (Isat) realized by metal dust core.

Low profile : Thickness max. 3.0mm

Low loss realized with low DCR

Capable of corresponding high frequency (3MHz)

100% lead (Pb) free meet RoHS standard

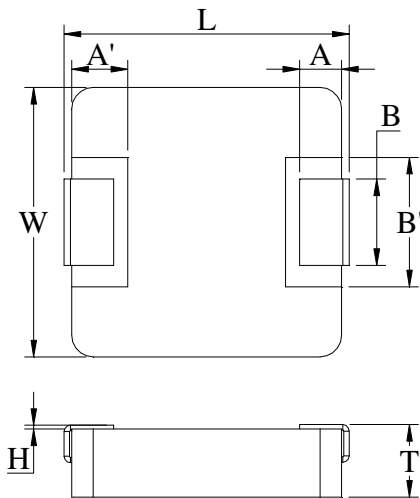
■ Application

DC/DC converter for CPU in Notebook PC

Thin type on-board power supply module for exchanger

VRM for server

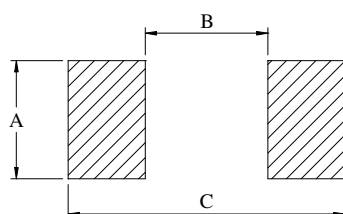
■ Outline Dimensions



Code	Dimensions (mm)
L	6.95 ± 0.35
W	6.6 ± 0.2
T	2.8 ± 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 (μ H) @ (0A)	R _{dc} (m Ω)		Heat Rating Current DC Amps. I _{dc} (A)	Saturation Current DC Amps. I _{sat} (A)
		Typical	Maximum	Typical	Typical
MHIB0630-R10M	0.10	1.5	1.7	32.5	60.0
MHIB0630-R15M	0.15	1.9	2.5	30.0	40.0
MHIB0630-R20M	0.20	2.4	3.0	24.0	34.0
MHIB0630-R22M	0.22	2.5	3.0	23.0	34.0
MHIB0630-R33M	0.33	3.0	3.5	21.0	25.0
MHIB0630-R36M	0.36	3.3	3.9	20.0	24.0
MHIB0630-R47M	0.47	3.5	4.1	18.0	20.0
MHIB0630-R56M	0.56	3.9	4.5	16.5	18.0
MHIB0630-R68M	0.68	4.8	5.3	16.0	17.0
MHIB0630-R82M	0.82	5.4	6.0	14.0	16.0
MHIB0630-1R0M	1.0	6.7	7.4	12.0	15.0
MHIB0630-1R2M	1.2	7.8	10.0	10.0	14.0
MHIB0630-1R5M	1.5	10.6	12.1	10.0	14.0
MHIB0630-2R2M	2.2	13.5	15.0	8.0	10.0
MHIB0630-3R3M	3.3	18.0	22.0	6.5	9.5
MHIB0630-4R7M	4.7	28.0	33.0	5.5	6.5
MHIB0630-5R6M	5.6	39.0	42.0	5.5	6.0
MHIB0630-6R8M	6.8	43.9	50.0	4.5	6.0
MHIB0630-8R2M	8.2	54.0	60.0	4.5	6.0
MHIB0630-100M	10.0	62.0	68.0	4.0	5.5
MHIB0630-220M	22.0	180.0	200.0	2.3	3.0

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

** : Inductance Tolerance \pm 20%

Note 1. : All test data is referenced to 25 $^{\circ}$ C ambient.

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

Note 3. : I_{dc} : DC current (A) that will cause an approximate Δ T of 40 $^{\circ}$ C

Note 4. : I_{sat} : DC current (A) that will cause L0 to drop approximately 30%

Note 5. : Operating Temperature Range -55 $^{\circ}$ C to + 125 $^{\circ}$ C

Note 6. : The part temperature (ambient + temp rise) should not exceed 125 $^{\circ}$ 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

