

Power Choke Coil MHIB0622 type

■ Features

High performance (Isat) realized by metal dust core.

Low profile : Thickness max. 2.4mm

Low loss realized with low DCR

Capable of corresponding high frequency ($L \leq 10\mu\text{H}$: 3MHz ; $L > 10\mu\text{H}$: 1MHz)

100% lead (Pb) free meet RoHS standard

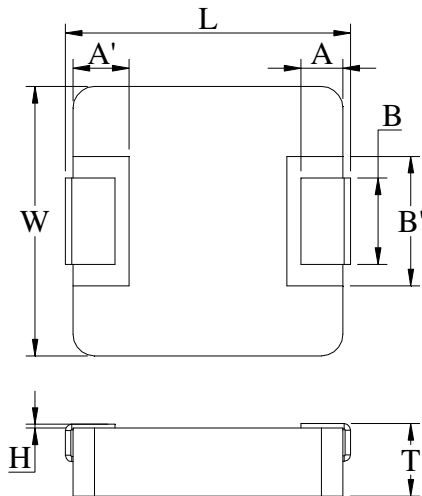
■ Application

DC/DC converter for CPU in Notebook PC

Thin type on-board power supply module for exchanger

VRM for server

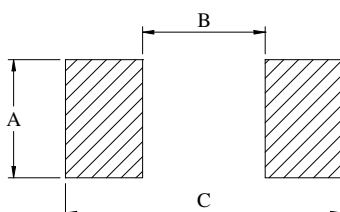
■ Outline Dimensions



Code	Dimensions (mm)
L	6.95 ± 0.35
W	6.6 ± 0.2
T	2.2 ± 0.2
A	1.6 ± 0.3
A'	2.0 ± 0.1
B	3.0 ± 0.3
B'	3.6 ± 0.2
H	$0 \sim +0.15$

■ 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} ($\text{m}\Omega$)		Heat Rating Current DC Amps. I_{dc} (A)	Saturation Current DC Amps. I_{sat} (A)
		Typical	Maximum	Typical	Typical
MHIB0622-R20M	0.2	2.2	2.8	25.0	50.0
MHIB0622-R22M	0.22	2.6	3.2	21.0	34.0
MHIB0622-R33M	0.33	3.5	4.1	18.0	24.5
MHIB0622-R47M	0.47	4.5	5.1	15.0	22.0
MHIB0622-R56M	0.56	5.9	6.5	13.0	17.0
MHIB0622-R68M	0.68	6.2	7.2	12.0	16.0
MHIB0622-1R0M	1.0	11.2	13.5	9.0	16.0
MHIB0622-1R5M	1.5	17.0	20.0	9.0	15.0
MHIB0622-2R2M	2.2	23.0	28.0	7.0	14.0
MHIB0622-3R3M	3.3	31.0	39.0	5.5	13.0
MHIB0622-4R7M	4.7	41.0	50.0	5.0	10.0
MHIB0622-5R6M	5.6	51.0	60.0	5.0	6.5
MHIB0622-6R8M	6.8	57.0	70.0	4.0	6.0
MHIB0622-100M	10.0	92.0	101.0	3.1	4.0
MHIB0622-150M	15.0	145.0	160.0	2.5	3.3

* : 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 $+125^{\circ}\text{C}$

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

