

Power Choke Coil MHIB0616 type

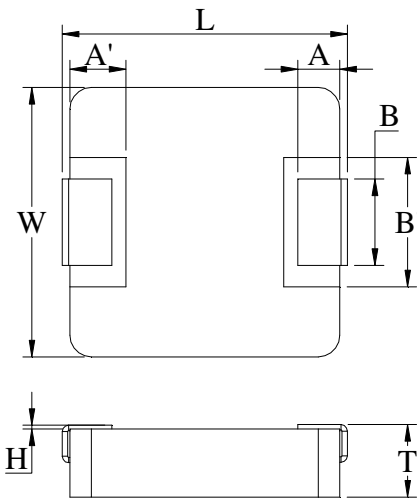
■ Features

High performance (Isat) realized by metal dust core.
 Low profile : Thickness max. 1.8mm
 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

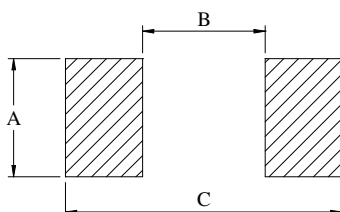
■ Outline Dimensions



Code	Dimensions (mm)
L	7.05 ± 0.35
W	6.6 ± 0.2
T	1.6 ± 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} (m Ω)		Heat Rating Current DC Amps. I _{dc} (A)	Saturation Current DC Amps. I _{sat} (A)
		Typical	Maximum	Typical	Typical
MHIB0616-R10M	0.10	2.0	2.5	18.0	45.0
MHIB0616-R22M	0.22	4.5	5.2	14.0	29.0
MHIB0616-R33M	0.33	5.2	6.8	12.0	22.0
MHIB0616-R47M	0.47	7.3	8.4	11.0	18.0
MHIB0616-R68M	0.68	10.8	12.7	9.0	17.0
MHIB0616-1R0M	1.0	14.5	17.0	7.0	14.0
MHIB0616-1R5M	1.5	20.0	26.0	6.5	12.0
MHIB0616-2R0M	2.0	28.0	32.0	6.0	13.0
MHIB0616-2R2M	2.2	31.0	35.0	6.0	13.0
MHIB0616-3R3M	3.3	56.0	60.0	3.5	10.0
MHIB0616-4R7M	4.7	68.0	70.0	3.5	5.0
MHIB0616-6R8M	6.8	101.0	110.0	2.8	3.5
MHIB0616-8R2M	8.2	120.0	135.0	2.5	3.0
MHIB0616-100M	10.0	140.0	155.0	2.3	2.5
MHIB0616-150M	15.0	215.0	250.0	1.8	2.2

* : 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

