Power Choke Coil HMLQ25201T MSR Type

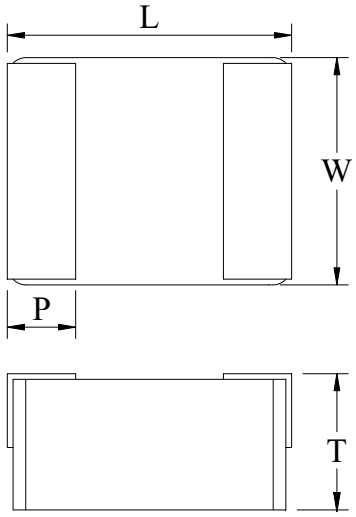
Features

High performance (Isat) realized by metal dust core.
Low profile：2.5mm x 2.0mm x 1.0mm
Low loss realized with low DCR
100% lead (Pb) free meet RoHS standard

Application

DC/DC converter for CPU in Notebook PC
Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
Thin type on-board power supply module for exchanger
VRM for server

Outline Dimensions

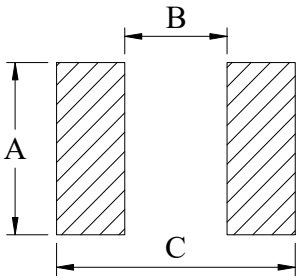


Code	Dimensions
L	2.5 ± 0.2
W	2.0 ± 0.2
T	1.0 Max.
P	0.6 ± 0.2

Unit : mm

Recommend Land Pattern Dimensions

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

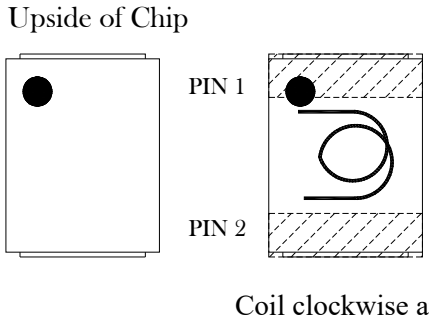


A	2.0
B	1.2
C	2.8

Unit : mm

Marking

The point on the top surface represents winding direction of choke.



Coil clockwise around

Specifications

Part Number	L0 Inductance (μH) @ (0A)	R_{dc} (mΩ)		Heat Rating Current DC Amps. Idc (A)		Saturation Current DC Amps. Isat (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
HMLQ25201T-R33MSR	0.33	16	20	5.5	5.0	7.3	7.0
HMLQ25201T-R47MSR	0.47	19	25	4.3	3.7	5.6	5.0
HMLQ25201T-1R0MSR	1.0	44	53	3.7	3.4	5.0	4.3
HMLQ25201T-2R2MSR	2.2	89	102	2.4	2.2	3.4	3.0

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

** : Inductance Tolerance ± 20%

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

Note 2. : Test Condition:1MHz, 1.0Vrms

Note 3. : Idc : DC current (A) that will cause an approximate △ T of 40℃

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

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

Note 6. : The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design , component placement, PCB 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

