Power Choke Coil CMLB136T type

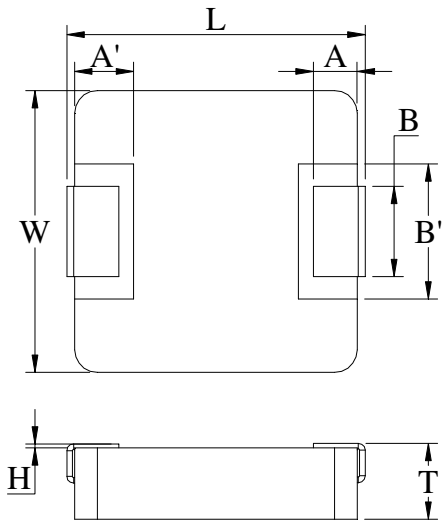
Features

High performance (Isat) realized by metal dust core.
Low profile：Thickness max. 6.0mm
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

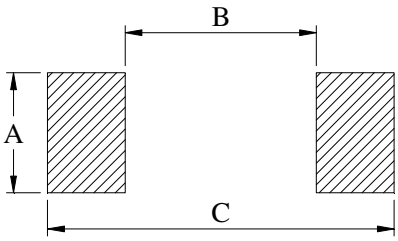
Outline Dimensions



Code	Dimensions (mm)
L	13.45 ± 0.35
W	12.6 ± 0.2
T	5.8 ± 0.2
A	2.0 ± 0.5
A’	2.5 ± 0.1
B	5.0 ± 0.5
B’	6.0 ± 0.2
H	0 ~ +0.15

Recommend Land Pattern Dimensions

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



A	5.5
B	8.0
C	14.5

Unit : mm

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
CMLB136T-8R2MS	8.2	13.5	16.0	11.0	10.0	16.0	13.5
CMLB136T-100MS	10.0	17.7	20.7	10.0	9.5	13.5	11.5
CMLB136T-120MS	12.0	19.8	23.0	9.0	8.0	13.0	11.0
CMLB136T-150MS	15.0	24.0	27.5	8.0	7.0	10.0	9.0
CMLB136T-220MS	22.0	33.0	39.0	7.0	6.5	7.6	6.9
CMLB136T-330MS	33.0	60.0	70.0	5.0	4.7	6.1	5.4
CMLB136T-470MS	47.0	78.0	88.0	4.5	4.0	5.7	5.2
CMLB136T-680MS	68.0	119.5	140.0	3.5	3.0	5.5	4.7
CMLB136T-101MS	100.0	178.0	198.0	3.0	2.7	4.0	3.5
CMLB136T-151MS	150.0	300.0	347.0	2.5	2.2	3.0	2.7

*: 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:100KHz, 1.0Vrms

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

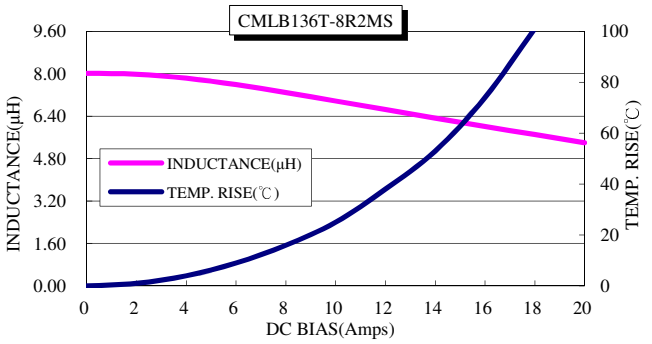
Note 4.： Isat : DC current (A) that will cause L0 to drop approximately 30%

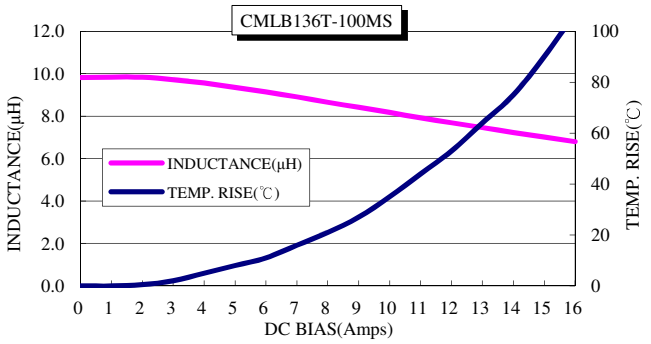
Note 5.： Operating Temperature Range -55℃ to + 125℃

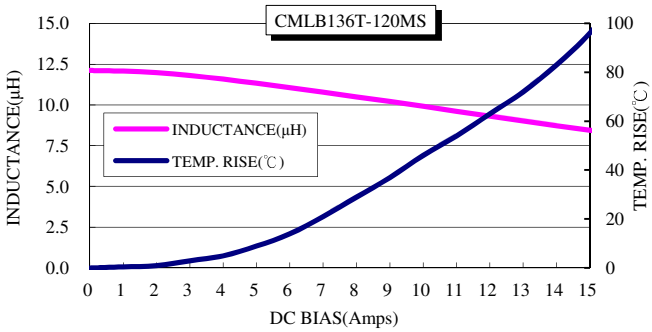
Note 6.： The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

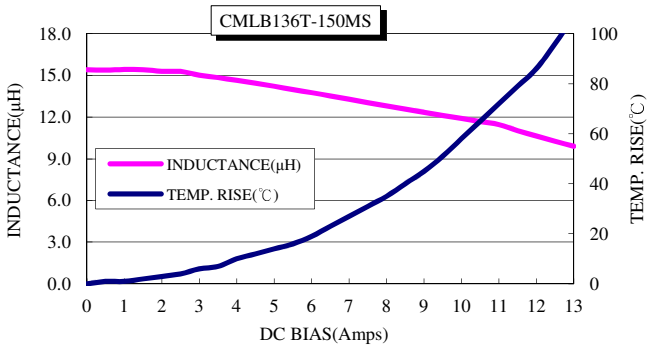
Note 7.： The rated current as listed is either the saturation current or the heating current depending on which value is lower.

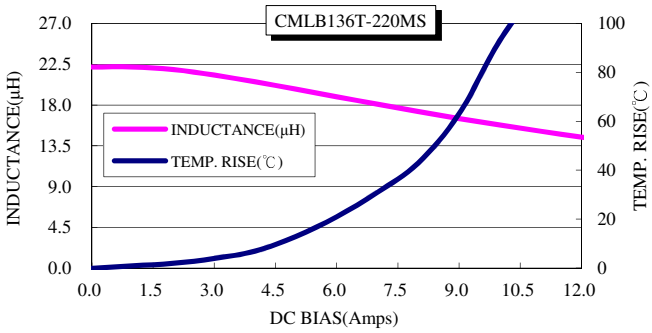
Current Characteristic

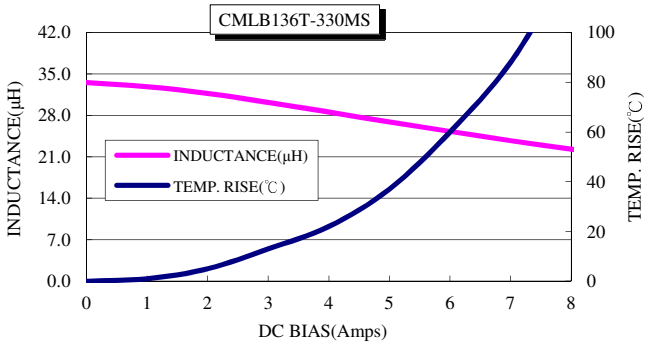


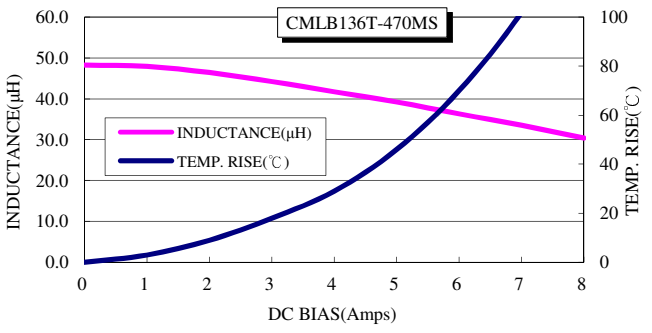


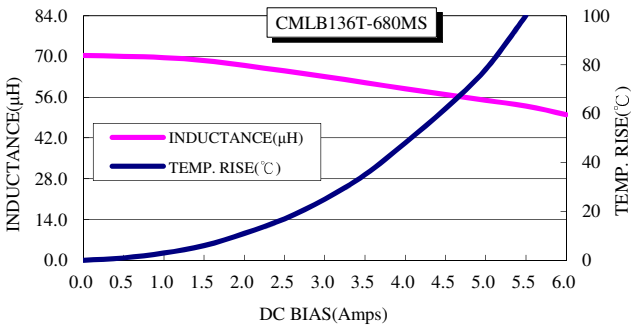


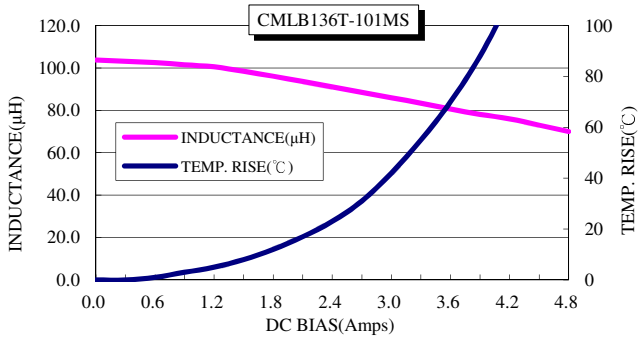


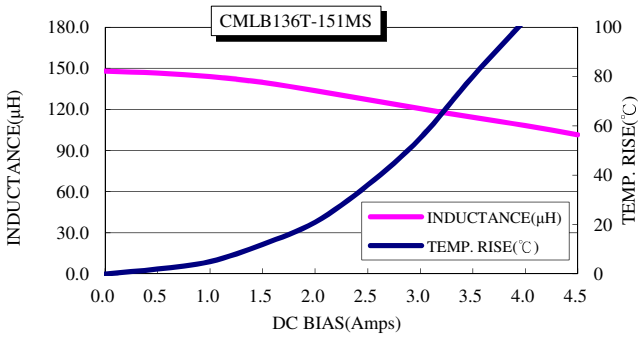









CMLB136T-101MS
INDUCTANCE(μH)
TEMP. RISE(℃)
DC BIAS(Amps)
120.0
100.0
80.0
60.0
40.0
20.0
0.0
100
80
60
40
20
0
0.0
0.6
1.2
1.8
2.4
3.0
3.6
4.2
4.8


CMLB136T-151MS
INDUCTANCE(μH)
TEMP. RISE(℃)
DC BIAS(Amps)
180.0
150.0
120.0
90.0
60.0
30.0
0.0
100
80
60
40
20
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5