Power Choke Coil PIMB061H type

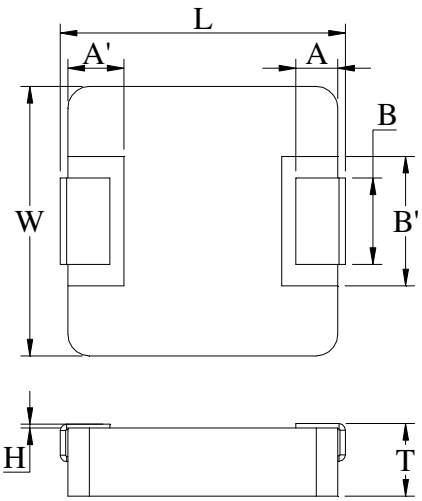
Features

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

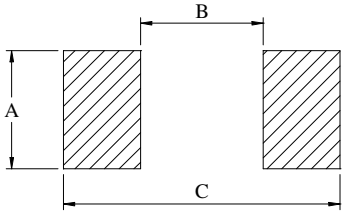
Outline Dimensions



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 ~ +0.15

Recommend Land Pattern Dimensions

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



A	3.5
B	3.7
C	8.4

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	Typical
PIMB061H-R10MS	0.10	2.0	2.5	18.0	45.0
PIMB061H-R22MS	0.22	4.5	5.2	14.0	29.0
PIMB061H-R33MS	0.33	5.2	6.8	12.0	22.0
PIMB061H-R47MS	0.47	7.3	8.4	11.0	18.0
PIMB061H-R68MS	0.68	10.8	12.7	9.0	17.0
PIMB061H-1R0MS	1.0	14.5	17.0	7.0	14.0
PIMB061H-1R5MS	1.5	20.0	26.0	6.5	12.0
PIMB061H-2R0MS	2.0	28.0	32.0	6.0	13.0
PIMB061H-2R2MS	2.2	31.0	35.0	6.0	13.0
PIMB061H-3R3MS	3.3	56.0	60.0	3.5	10.0
PIMB061H-4R7MS	4.7	68.0	70.0	3.5	5.0
PIMB061H-6R8MS	6.8	101.0	110.0	2.8	3.5
PIMB061H-8R2MS	8.2	120.0	135.0	2.5	3.0
PIMB061H-100MS	10.0	140.0	155.0	2.3	2.5
PIMB061H-150MS	15.0	215.0	250.0	1.8	2.2

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

**：Inductance ± 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 △T of 40℃

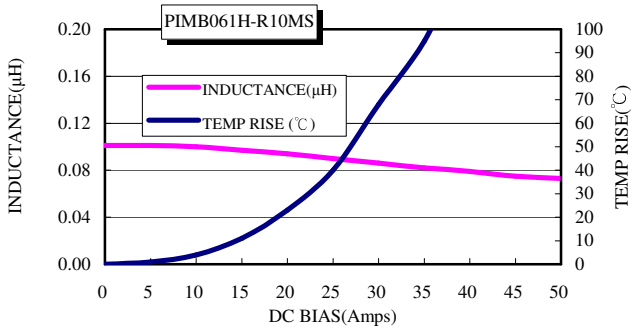
Note 4.： Isat : DC current (A) that will cause Lo to drop approximately 30%

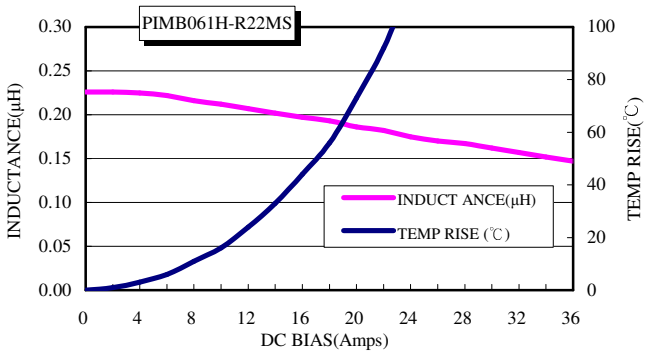
Note 5.： Operating Temperature Range -55℃ to + 125℃

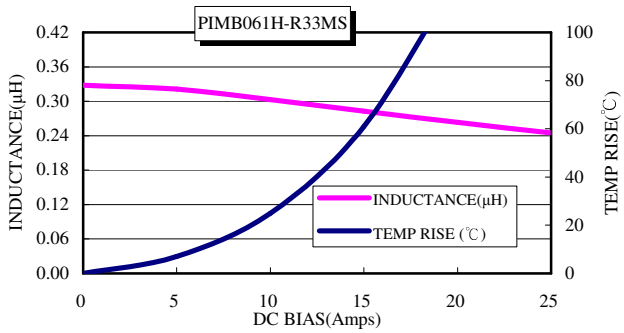
Note 6.： The part temperature (ambient + temp rise) should not exceed 125℃ under worse case operating conditions. Circuit design , component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

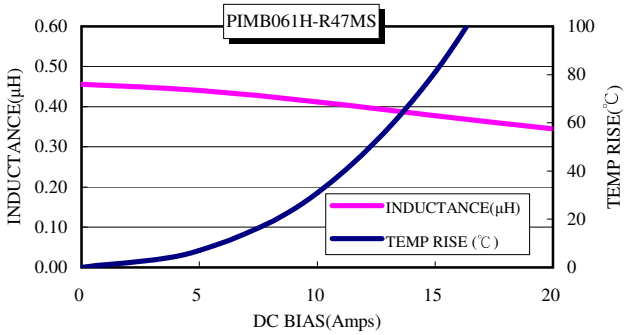
Note 7.： The rated current as listed is either the saturation current or the heating current depending on which value is lower.

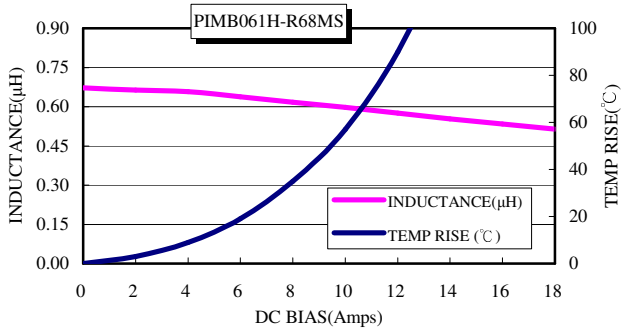
Current Characteristic

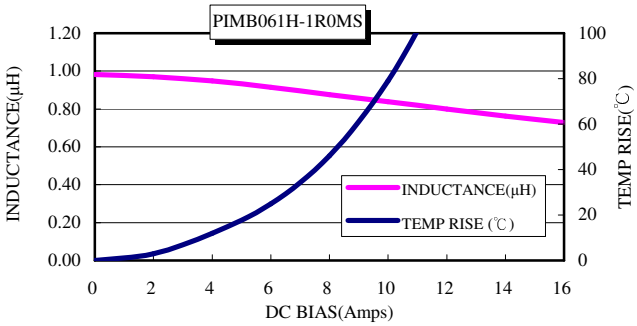


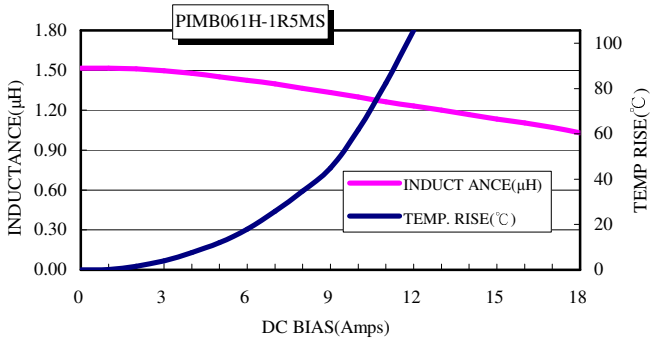


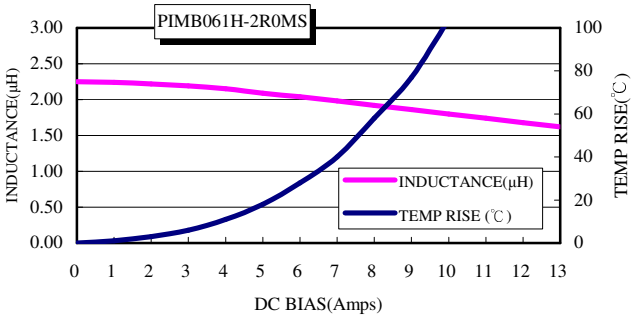


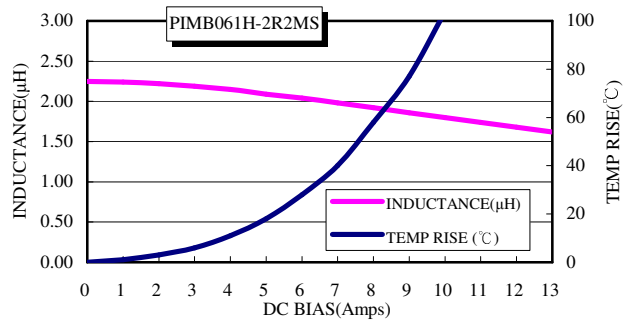


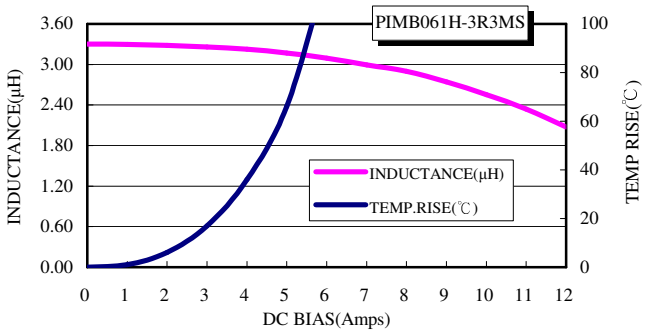


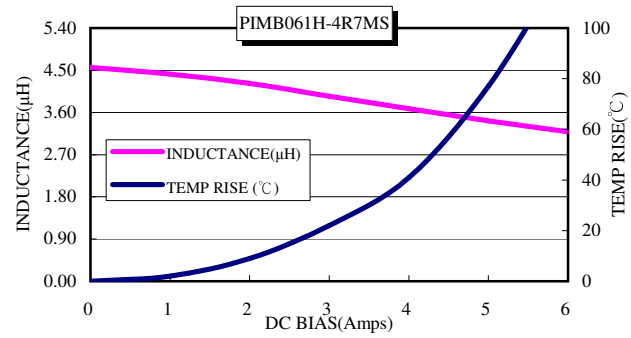


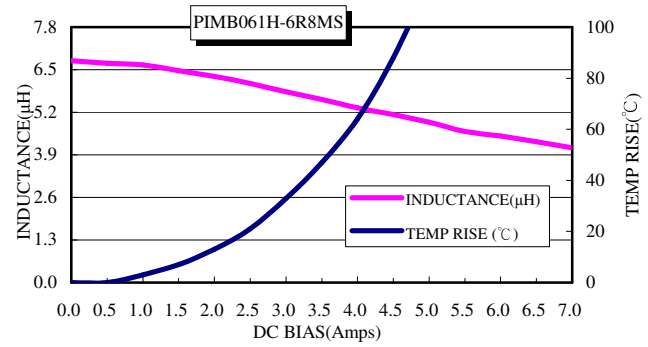


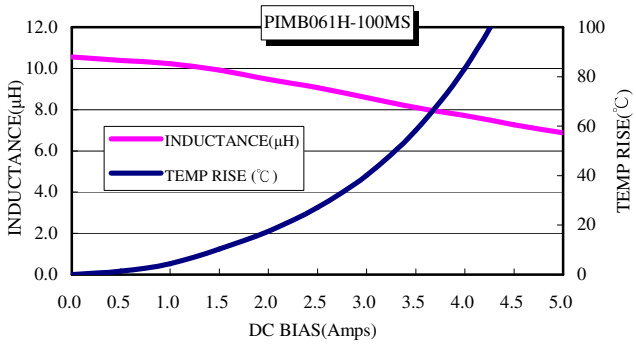


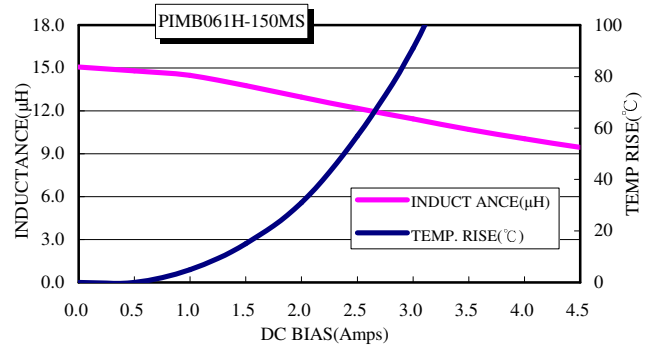

PIMB061H-2R2MS
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)
INDUCTANCE(μH)
TEMP RISE (℃)


PIMB061H-3R3MS
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)
INDUCTANCE(μH)
TEMP.RISE(℃)


PIMB061H-4R7MS
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)
INDUCTANCE(μH)
TEMP RISE (℃)


PIMB061H-6R8MS
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)
INDUCTANCE(μH)
TEMP RISE (℃)


PIMB061H-100MS
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)
INDUCTANCE(μH)
TEMP RISE (℃)


PIMB061H-150MS
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)
INDUCT ANCE(μH)
TEMP. RISE(℃)