

### Power Choke Coil PCMB063T type

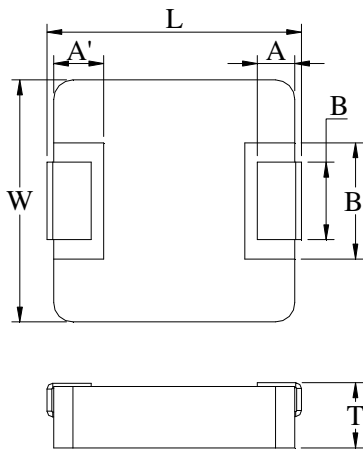
#### ■ Features

- High performance (Isat) realized by metal dust core.
- Low profile : Thickness max. 3.0mm
- Low loss realized with low DCR
- Capable of corresponding high frequency (3MHz)
- 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

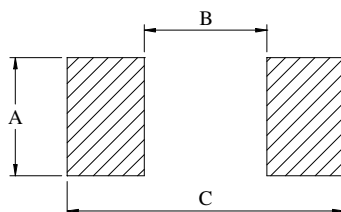
#### ■ Outline Dimensions



Code	Dimensions (mm)
L	6.95 ± 0.35
W	6.6 ± 0.2
T	2.8 ± 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 ( $\mu\text{H}$ ) @ (0A)	$R_{dc}$ ( $\text{m}\Omega$ )		Heat Rating Current DC Amps. Idc ( A )	Saturation Current DC Amps. Isat ( A )
		Typical	Maximum	Typical	Typical
PCMB063T-R10MS	0.10	1.5	1.7	32.5	60.0
PCMB063T-R15MS	0.15	1.9	2.5	30.0	45.0
PCMB063T-R20MS	0.20	2.4	3.0	24.0	41.0
PCMB063T-R22MS	0.22	2.5	2.8	23.0	40.0
PCMB063T-R33MS	0.33	3.0	3.5	21.0	25.0
PCMB063T-R36MS	0.36	2.6	3.9	20.0	26.0
PCMB063T-R47MS	0.47	3.5	4.1	18.0	20.0
PCMB063T-R56MS	0.56	4.7	5.0	16.5	25.5
PCMB063T-R68MS	0.68	4.5	5.0	16.0	17.0
PCMB063T-R82MS	0.82	7.0	7.5	14.0	16.0
PCMB063T-1R0MS	1.0	8.5	9.0	12.0	15.0
PCMB063T-1R2MS	1.2	10.0	12.0	10.0	20.0
PCMB063T-1R5MS	1.5	10.6	12.1	10.0	14.0
PCMB063T-2R2MS	2.2	18.0	20.0	8.0	10.0
PCMB063T-2R5MS	2.5	20.0	22.0	7.0	14.0
PCMB063T-3R3MS	3.3	25.0	28.0	6.5	10.0
PCMB063T-4R7MS	4.7	32.5	35.0	5.5	6.5
PCMB063T-5R6MS	5.6	39.0	42.0	5.5	6.0
PCMB063T-6R8MS	6.8	54.0	60.0	4.5	8.0
PCMB063T-8R2MS	8.2	54.0	60.0	4.5	6.0
PCMB063T-100MS	10.0	62.0	68.0	4.0	5.5

\*: 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. : Idc : DC current (A) that will cause an approximate  $\Delta T$  of 40°C

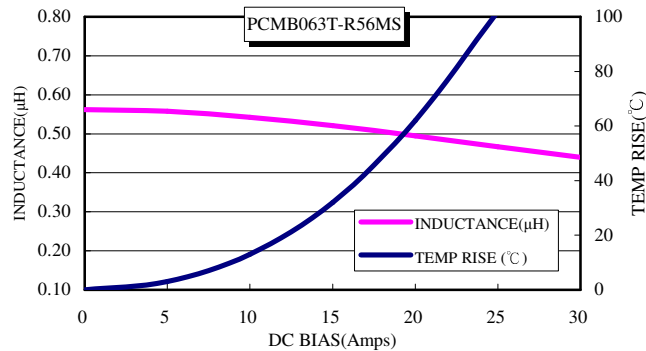
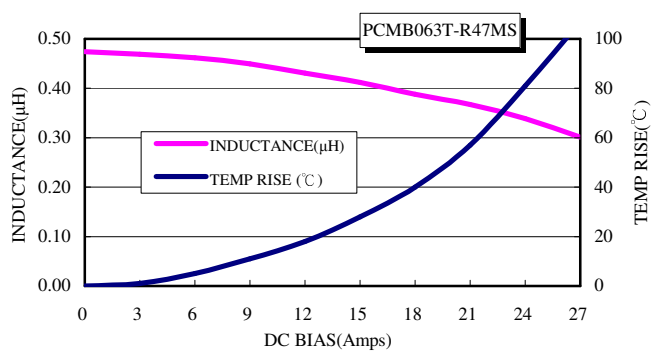
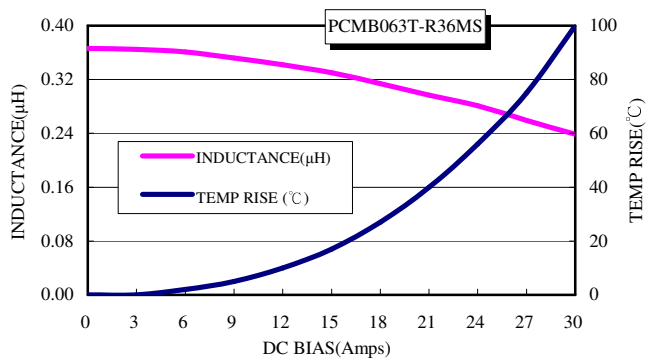
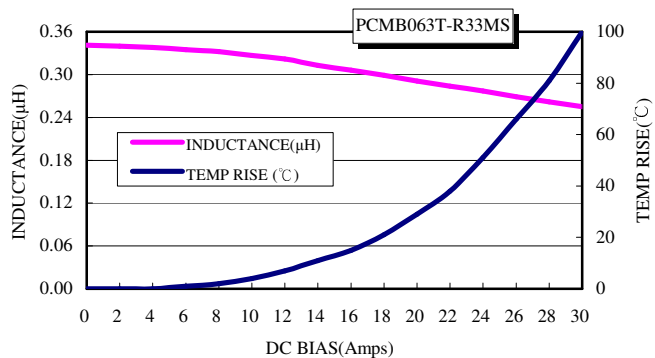
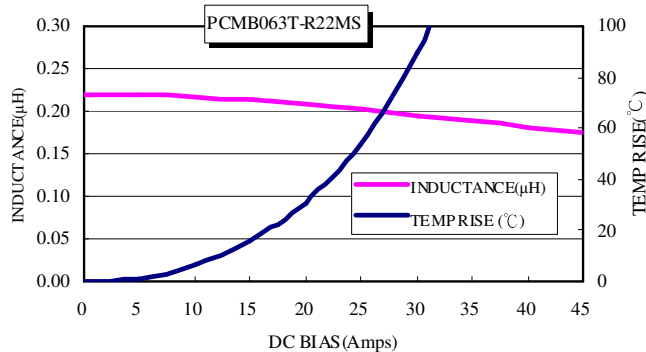
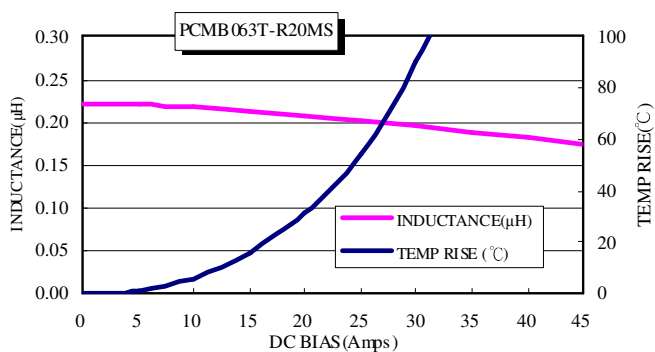
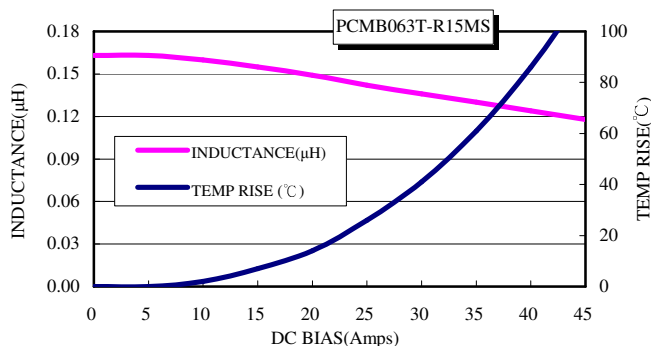
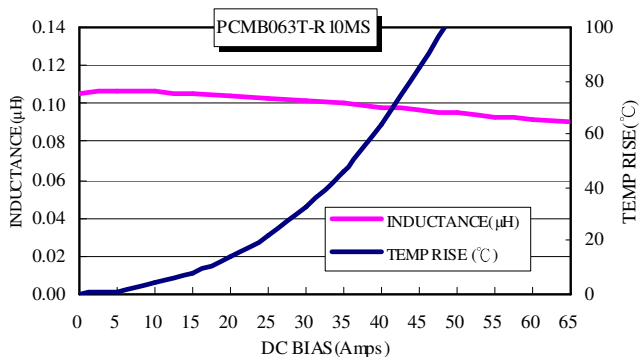
Note 3. : Isat : DC current (A) that will cause Lo to drop approximately 30%

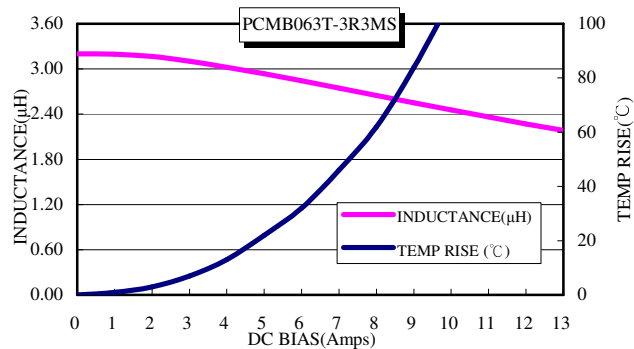
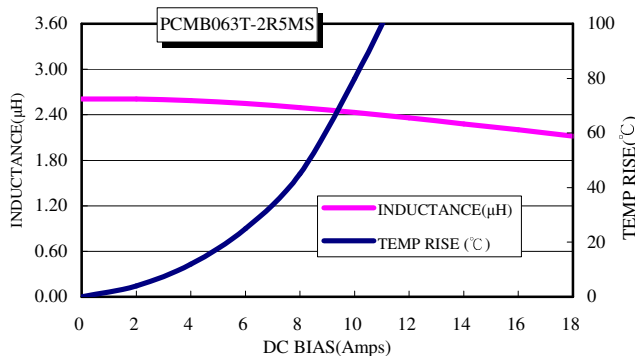
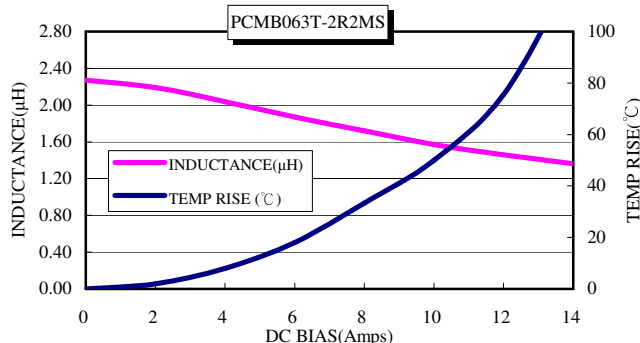
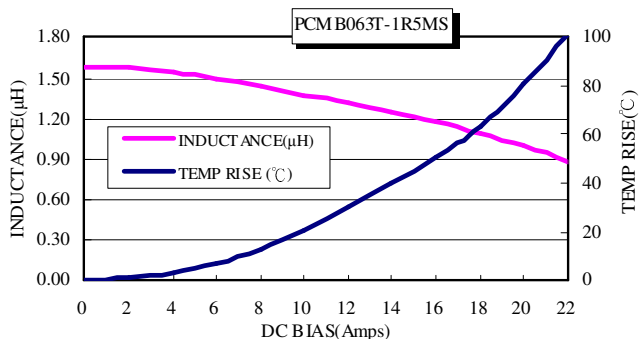
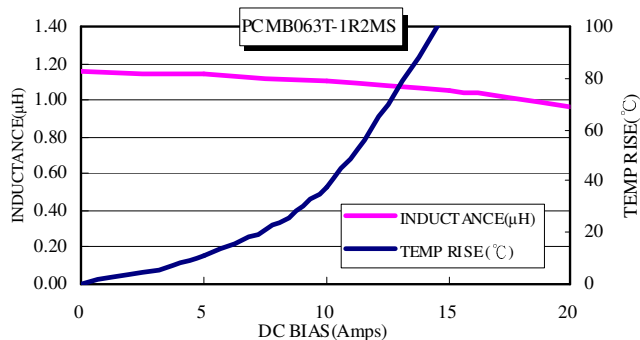
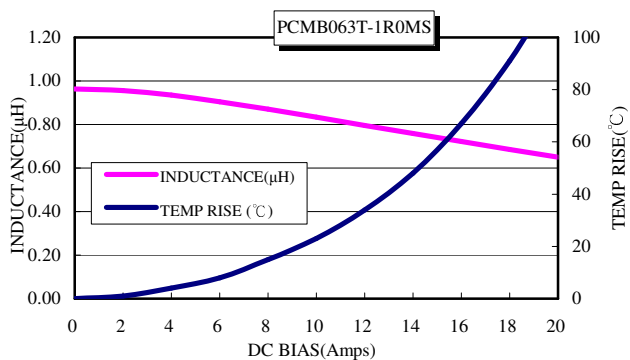
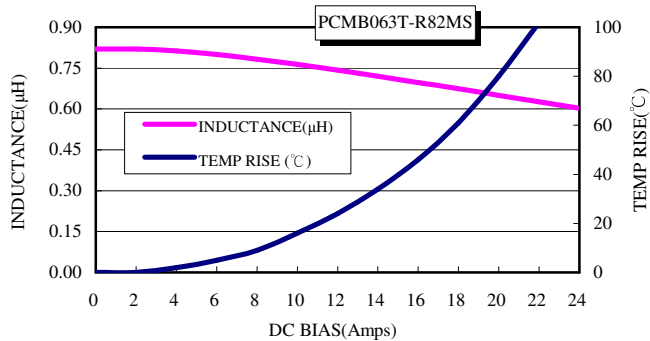
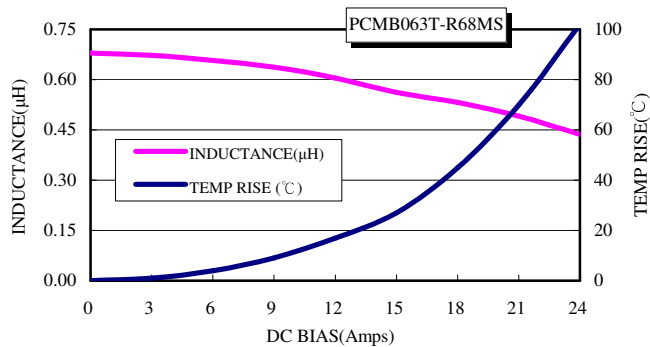
Note 4. : Operating Temperature Range -55°C to + 125°C

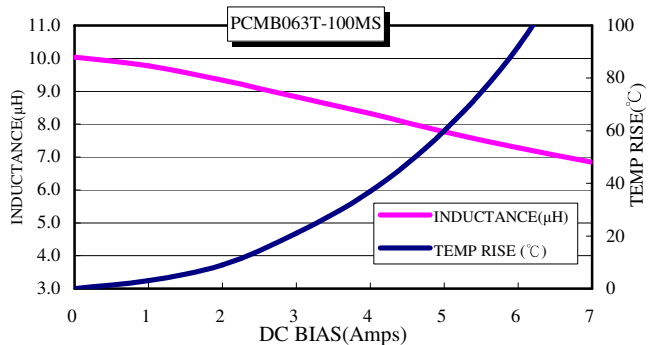
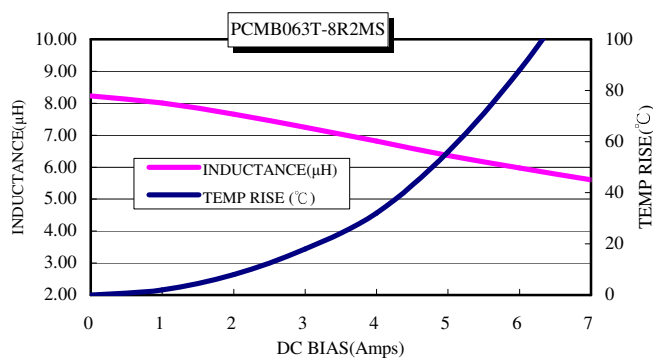
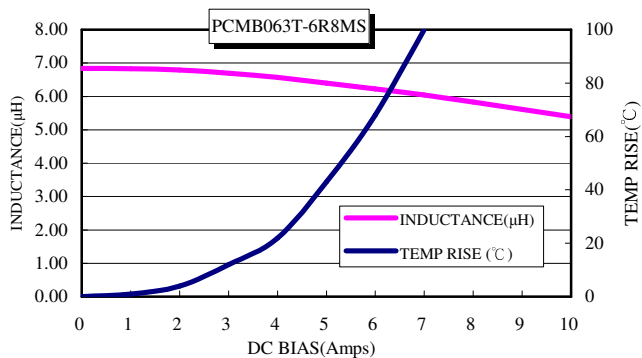
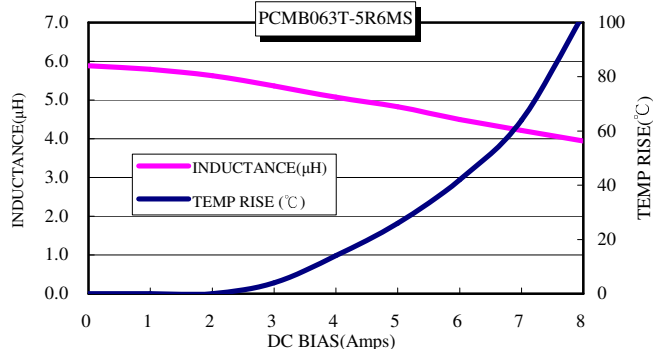
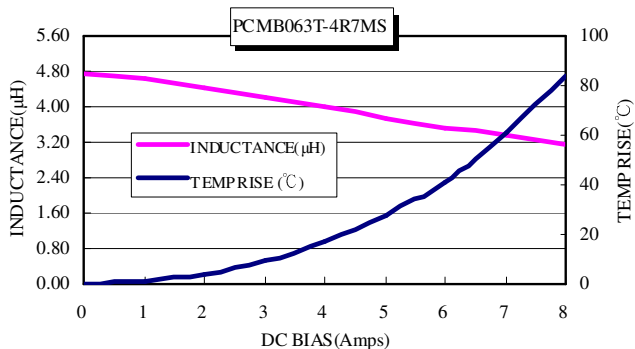
Note 5. : The part temperature (ambient + temp rise ) should not exceed 125°C under worse case operating conditions. Circuit design , component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

Note 6. : The rated current as listed is either the saturation current or the heating current depending on which value is lower.

### Current Characteristic







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