

Power Choke Coil PCMB042T type

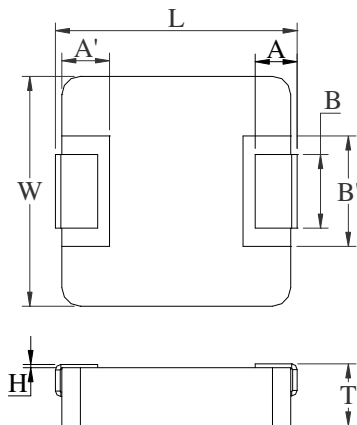
■ Features

High performance (Isat) realized by metal dust core.
 Low profile : Thickness max. 2.0mm
 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

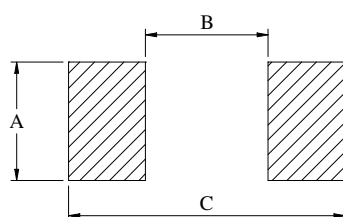
■ Outline Dimensions



Code	Dimensions (mm)
L	4.15 ± 0.35
W	4.0 ± 0.3
T	1.8 ± 0.2
A	0.8 ± 0.3
A'	1.0 ± 0.1
B	1.5 ± 0.3
B'	2.2 ± 0.2
H	0 ~ +0.15

■ Recommend Land Pattern Dimensions

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



A	2.5
B	2.2
C	5.2

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
PCMB042T-R10MS	0.10	3.5	4.0	12.0	22.0
PCMB042T-R22MS	0.22	6.0	6.6	9.0	12.5
PCMB042T-R47MS	0.47	12.5	14.0	7.0	9.5
PCMB042T-1R0MS	1.0	24.0	27.0	4.5	7.0
PCMB042T-1R5MS	1.5	38.0	46.0	4.0	6.0
PCMB042T-2R2MS	2.2	52.0	58.0	3.0	5.0
PCMB042T-3R3MS	3.3	74.0	87.0	2.5	4.0

* : 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. : I_{dc} : DC current (A) that will cause an approximate ΔT of 40°C

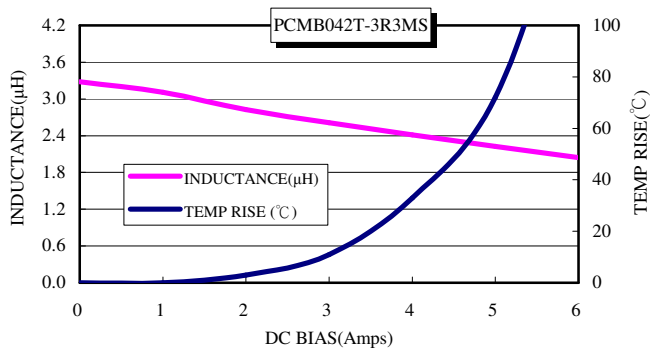
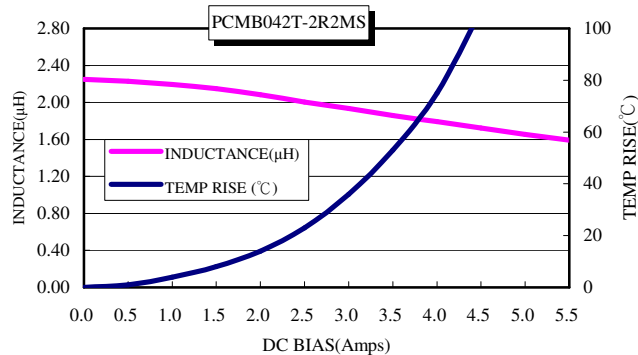
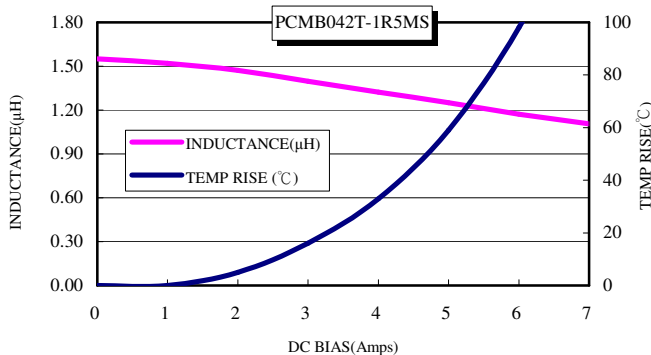
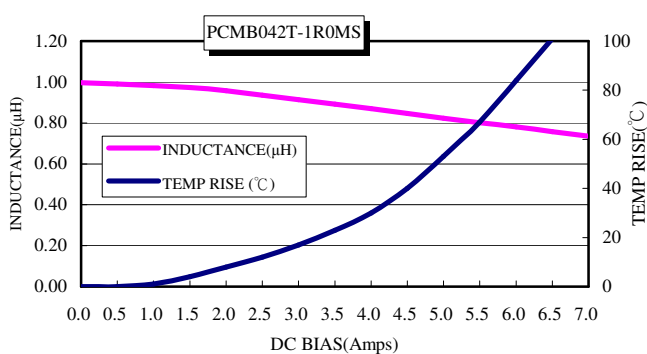
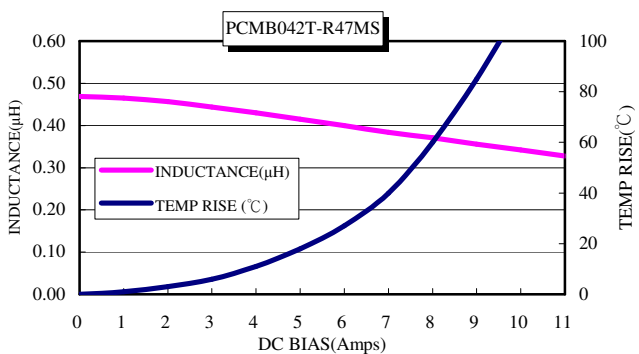
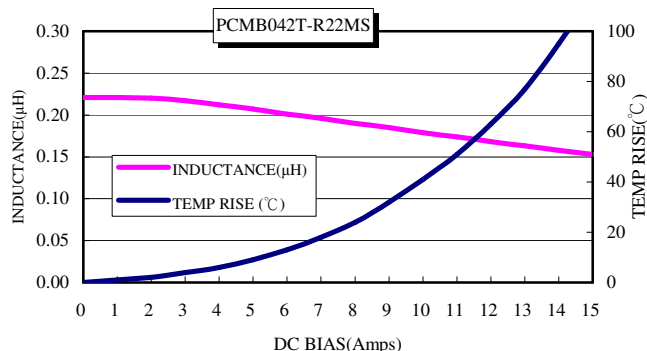
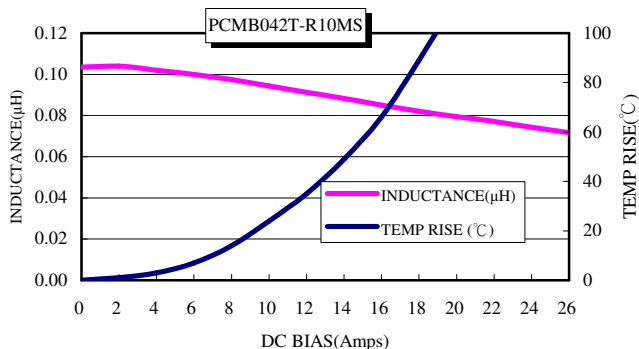
Note 3. : I_{sat} : DC current (A) that will cause L₀ to drop approximately 30%

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.

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