

Power Choke Coil PIME104T type

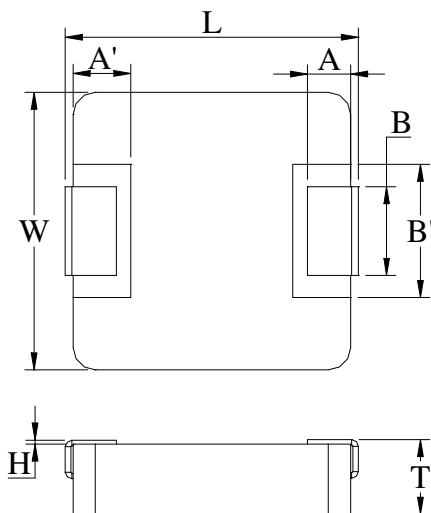
■ Features

High performance (Isat) realized by metal dust core.
 Low profile : Thickness max. 4.0mm
 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

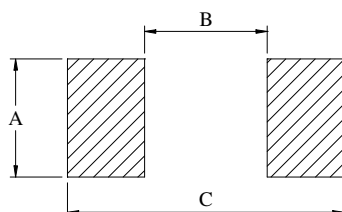
■ Outline Dimensions



Code	Dimensions (mm)
L	11.15 ± 0.35
W	10 ± 0.3
T	3.8 ± 0.2
A	2.0 ± 0.5
A'	2.5 ± 0.1
B	3.0 ± 0.5
B'	5.0 ± 0.2
H	0 ~ +0.15

■ Recommend Land Pattern Dimensions

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



A	4.1
B	5.4
C	13.6

Unit : mm

■ Specifications

Part Number	L0 Inductance (μ H) @ (0A)	R _{dc} (m Ω)	Heat Rating Current DC Amps. I _{dc} (A)	Saturation Current DC Amps. I _{sat} (A)
			Typical	Typical
PIME104T-R36MS0R765	0.36	0.76 \pm 5%	40.0	40.0
PIME104T-R36MS0R825	0.36	0.82 \pm 5%	37.0	40.0
PIME104T-R45MS1R007	0.45	1.0 \pm 7%	35.0	38.0
PIME104T-R56MS1R407	0.56	1.4 \pm 7%	30.0	35.0
PIME104TR68MS1R607	0.68	1.6 \pm 7%	28.0	33.0
PIME104T-R88MS2R307	0.88	2.3 \pm 7%	27.0	32.0
PIME104T1R0MS2R307	1.0	2.3 \pm 7%	25.0	30.0

* : 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. : Test Condition:100KHz, 1.0Vrms

Note 3. : I_{dc} : DC current (A) that will cause an approximate Δ T of 40°C

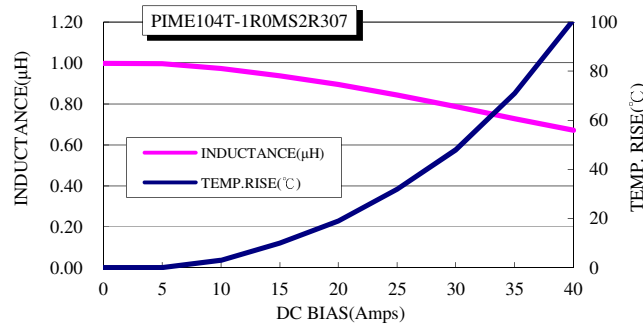
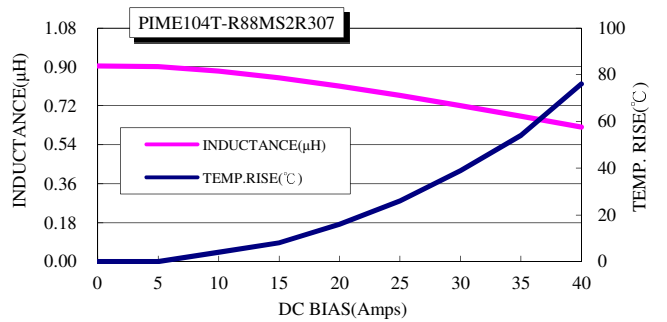
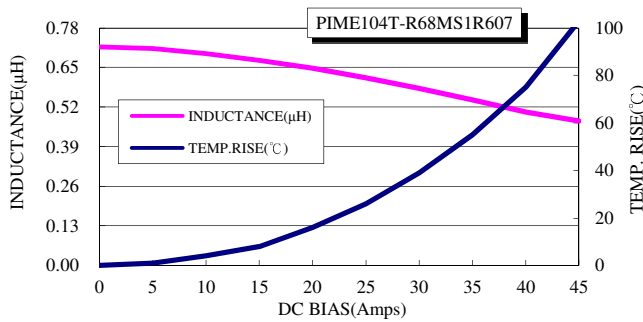
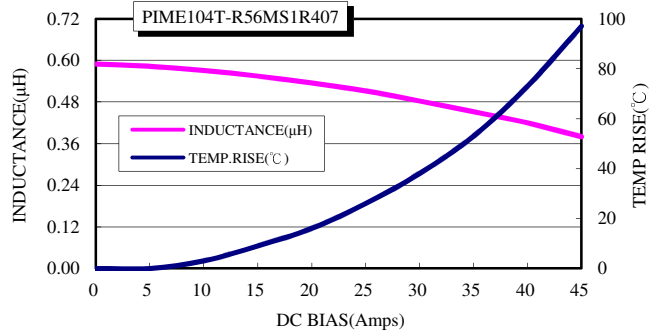
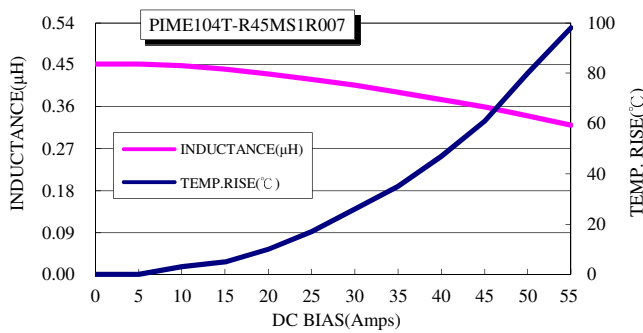
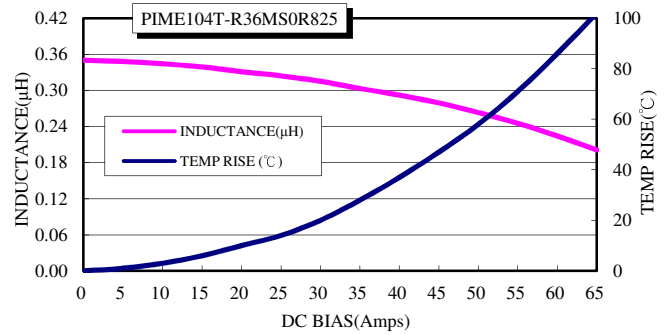
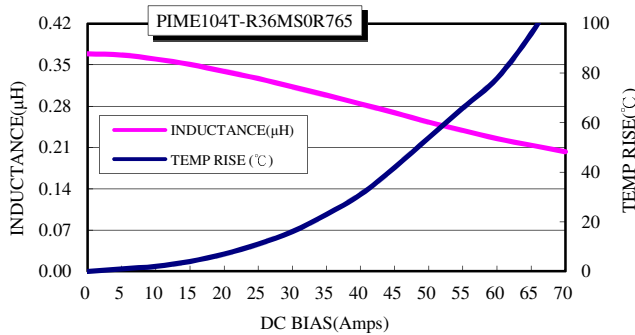
Note 4. : I_{sat} : DC current (A) that will cause Lo to drop approximately 30%

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

Note 6. : 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 7. : The rated current as listed is either the saturation current or the heating current depending on which value is lower.

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