

Power Choke Coil PIME061E type

■ Features

High performance (Isat) realized by metal dust core.

Low profile : Thickness max. 1.5mm

Low loss realized with low DCR

Capable of corresponding high frequency (3MHz)

100% lead (Pb) free meet RoHS standard

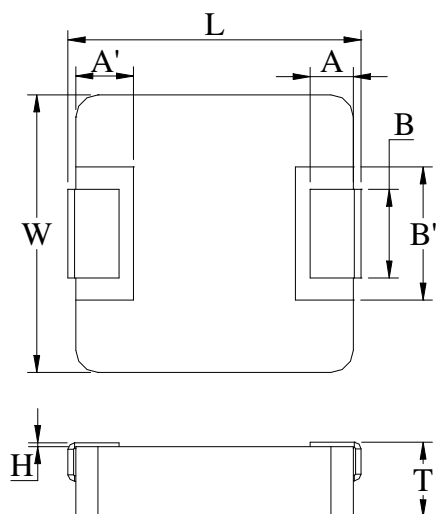
■ Application

DC/DC converter for CPU in Notebook PC

Thin type on-board power supply module for exchanger

VRM for server

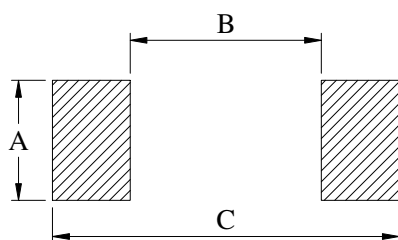
■ Outline Dimensions



Code	Dimensions(mm)
L	6.86 ± 0.381
W	6.47 ± 0.254
T	1.3 ± 0.2
A	1.6 ± 0.3
A'	2.0 ± 0.1
B	3.0 ± 0.3
B'	3.6 ± 0.2
H	$0 \sim +0.15$

■ 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 (μ H) @ (0A)	R _{dc} (m Ω)		Heat Rating Current DC Amps. I _{dc} (A)	Saturation Current DC Amps. I _{sat} (A)
		Typical	Maximum	Typical	Typical
PIME061E-R33MS	0.33	6.8	7.8	10.0	19.5
PIME061E-R47MS	0.47	7.3	8.5	9.8	16.0
PIME061E-R56MS	0.56	9.5	11.0	9.0	14.0
PIME061E-R68MS	0.68	10.5	12.0	8.5	12.0
PIME061E-R82MS	0.82	15.0	17.0	7.0	10.0
PIME061E-1R0MS	1.0	18.5	21.0	5.5	9.0
PIME061E-1R2MS	1.2	25.0	30.0	5.4	8.5
PIME061E-2R2MS	2.2	46.0	54.0	3.5	6.0
PIME061E-3R3MS	3.3	54.0	63.0	3.3	5.5
PIME061E-4R7MS	4.7	76.0	85.0	3.2	5.0
PIME061E-6R8MS	6.8	125.0	135.0	2.5	4.0
PIME061E-100MS	10.0	165.0	175.0	2.0	3.0

*: 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 ΔT of 40°C

Note 4. : I_{sat} : DC current (A) that will cause L₀ 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.

■ Current Characteristic

