

Power Choke Coil PCME051E type

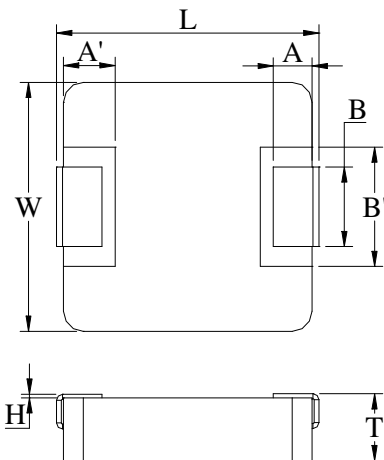
■ Features

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

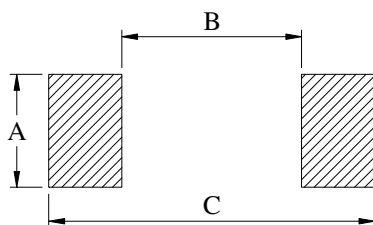
■ Outline Dimensions



Code	Dimensions(mm)
L	5.4 ± 0.35
W	5.2 ± 0.2
T	1.3 ± 0.2
A	1.0 ± 0.3
A'	1.5 ± 0.1
B	2.0 ± 0.3
B'	2.5 ± 0.2
H	+0.15/+0

■ Recommend Land Pattern Dimensions

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



A	2.5
B	2.2
C	5.99

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
PCME051E-1R0MS	1.0	20	23	6.5	9.0
PCME051E-2R2MS	2.2	58	64	3.3	6.0
PCME051E-3R3MS	3.3	65	72	3.2	5.0
PCME051E-4R7MS	4.7	95	106	3.0	4.0
PCME051E-6R8MS	6.8	120	130	2.5	3.2
PCME051E-100MS	10.0	153	170	2.0	3.0
PCME051E-150MS	15.0	310	350	1.3	2.3

*: 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 Δ T 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.

Current Characteristic

