

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI-E TYPE

FEATURES

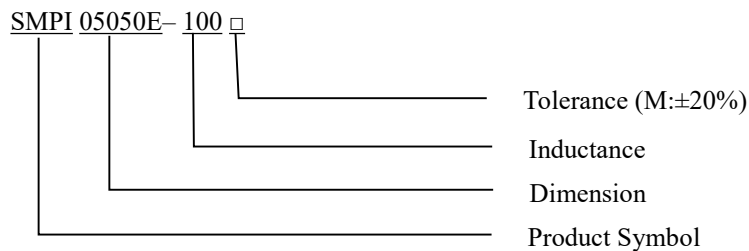
- ◆ Magnetic shielding structure: excellent resistance to electromagnetic interference (EMI).
- ◆ Die-casting by low loss alloy powder: low impedance.
- ◆ High efficiency, wide application frequency and application scope.



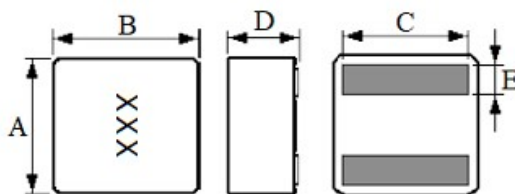
APPLICATIONS

- ◆ Industrial Control Motherboards
- ◆ Graphics Cards
- ◆ Tablet PCs / Notebooks
- ◆ Power Distribution
- ◆ DC/DC Converters
- ◆ LED Lighting
- ◆ Communication Equipment
- ◆ Medical Devices

ORDERING CODE



DIMENSIONS UNIT: mm



A	5.5± 0.3	m/m
B	5.6 ± 0.3	m/m
C	4.3 (REF)	m/m
D	5.0 (MAX)	m/m
E	1.2 (REF)	m/m



CORE MASTER ENTERPRISE CO., LTD.

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ELECTRICAL CHARACTERISTICS FOR SMPI 05050E

Part No.	Inductance (uH) @0A	Test Frequency	Heat Rating Current Irms(A)	Saturation Current Isat (A) drop30%	RDC (mΩ) MAX
SMPI05050E-1R5M	1.5	100KHz/1V	17.1	13.1	5.7
SMPI05050E-4R7M	4.7	100KHz/1V	9.7	7.0	16.0
SMPI05050E-5R6M	5.6	100KHz/1V	7.2	7.2	24.2
SMPI05050E-6R8M	6.8	100KHz/1V	6.4	6.6	28.6
SMPI05050E-8R2M	8.2	100KHz/1V	6.1	6.1	32.5
SMPI05050E-100M	10	100KHz/1V	5.0	5.4	43.0

Notes:

- 1) You require another part number please contact with us.
- 2) Inductance Tolerance $\pm 20\%$; Frequency Test : 100KHz/1.0v
- 3) All test data is referenced to 25°C ambient.
- 4) Irms : DC current (A) that will cause an approximate ΔT of 40°C
- 5) Isat : DC current (A) that will cause Lo to drop approximately 30%
- 6) We can design according to customer's request.



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