

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI-E TYPE

FEATURES

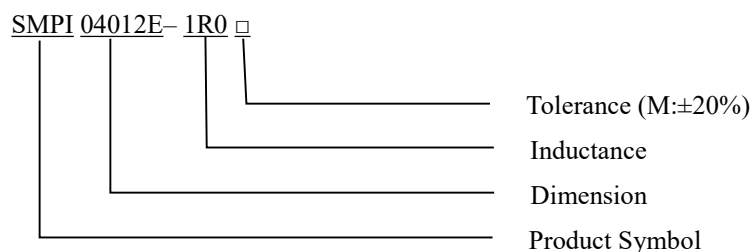
- ◆ Magnetic shielding structure: excellent resistance to electromagnetic interference (EMI).
- ◆ Die-casting by low loss alloy powder: low impedance.
- ◆ High efficiency, wide application frequency and application scope.



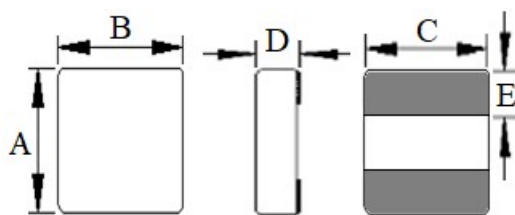
APPLICATIONS

- ◆ Servers.
- ◆ Graphics cards.
- ◆ Various categories of consumer electronics.

ORDERING CODE



DIMENSIONS UNIT: mm



A	4.0± 0.3	m/m
B	4.0 ± 0.3	m/m
C	4.0 (REF)	m/m
D	1.3 (MAX)	m/m
E	1.2 (REF)	m/m



CORE MASTER ENTERPRISE CO., LTD.

<http://www.coremaster.com.tw>

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ELECTRICAL CHARACTERISTICS FOR SMPI 04012E

Part No.	Inductance (uH) @0A)	Test Frequency	Heat Rating Current Irms(A)	Saturation Current Isat (A) drop30%	RDC (mΩ) MAX
SMPI04012E-R25M	0.25	100KHz/0.1V	8.0	11.0	10
SMPI04012E-R47M	0.47	100KHz/0.1V	7.0	9.5	25
SMPI04012E-R68M	0.68	100KHz/0.1V	6.0	8.0	30
SMPI04012E-1R0M	1.0	100KHz/0.1V	5.0	7.0	33
SMPI04012E-1R5M	1.5	100KHz/0.1V	4.2	6.5	55
SMPI04012E-2R2M	2.2	100KHz/0.1V	4.0	6.0	63
SMPI04012E-3R3M	3.3	100KHz/0.1V	3.5	5.0	90
SMPI04012E-4R7M	4.7	100KHz/0.1V	3.0	4.5	110
SMPI04012E-5R6M	5.6	100KHz/0.1V	2.5	4.0	140
SMPI04012E-6R8M	6.8	100KHz/0.1V	2.3	3.5	160
SMPI04012E-100M	10.0	100KHz/0.1V	1.8	2.5	240

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 L_o to drop approximately 30%
- 6) We can design according to customer's request.



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