

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI-E TYPE

FEATURES

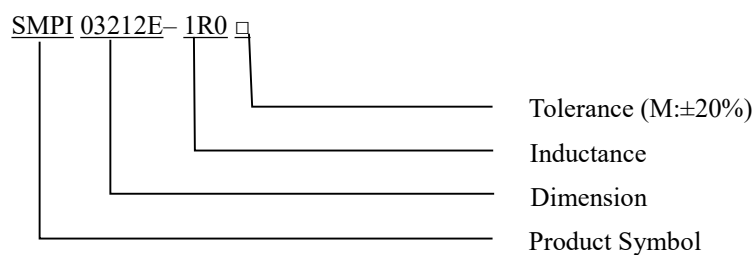
- ◆ Magnetic shielding structure: excellent resistance to electromagnetic interference (EMI).
- ◆ Die-casting by low loss alloy powder: low impedance.
- ◆ High efficiency, wide application frequency and application scope.



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	3.2± 0.3	m/m
B	2.5 ± 0.3	m/m
C	2.5 (REF)	m/m
D	1.3 (MAX)	m/m
E	1.0 (REF)	m/m



CORE MASTER ENTERPRISE CO., LTD.

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

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ELECTRICAL CHARACTERISTICS FOR SMPI 03212E

Part No.	Inductance (uH) @(0A)	Test Frequency	Heat Rating Current Irms(A)	Saturation Current Isat (A) drop30%	RDC (mΩ) MAX
SMPI03212E-R10M	0.10	100KHz/1V	8.5	16.0	13
SMPI03212E-R22M	0.22	100KHz/1V	8.0	14.0	14
SMPI03212E-R47M	0.47	100KHz/1V	6.0	12.0	24
SMPI03212E-R56M	0.56	100KHz/1V	5.0	10.0	30
SMPI03212E-R68M	0.68	100KHz/1V	4.5	8.0	32
SMPI03212E-1R0M	1.00	100KHz/1V	4.0	7.0	35
SMPI03212E-1R5M	1.50	100KHz/1V	3.5	6.0	62
SMPI03212E-2R2M	2.20	100KHz/1V	3.0	4.5	75
SMPI03212E-3R3M	3.30	100KHz/1V	2.5	3.5	127
SMPI03212E-4R7M	4.70	100KHz/1V	2.0	3.0	192
SMPI03212E-6R8M	6.80	100KHz/1V	2.0	2.8	210
SMPI03212E-100M	10.00	100KHz/1V	1.8	2.5	322

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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