

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI-E TYPE

FEATURES

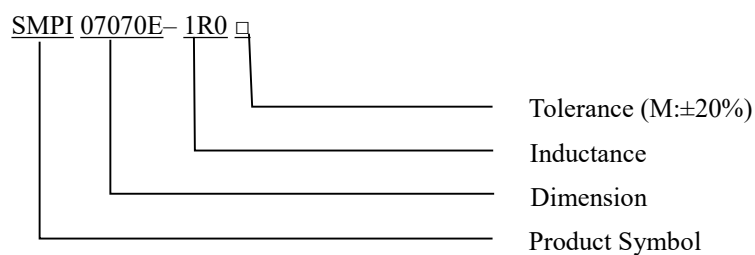
- ◆ Magnetic shielding structure: excellent resistance to electromagnetic interference (EMI).
- ◆ Die-casting by low loss alloy powder: low impedance.
- ◆ High efficiency, wide application frequency and application scope.



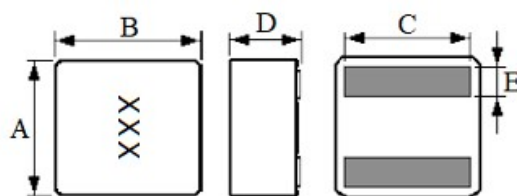
APPLICATIONS

- ◆ 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	7.2± 0.5	m/m
B	7.5 ± 0.5	m/m
C	6.2 (REF)	m/m
D	7.1 (MAX)	m/m
E	1.7 (REF)	m/m



CORE MASTER ENTERPRISE CO., LTD.

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

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ELECTRICAL CHARACTERISTICS FOR SMPI 07070E

Part No.	Inductance (uH) @(0A)	Test Frequency	Heat Rating Current Irms(A)	Saturation Current Isat (A) drop30%	RDC (mΩ) MAX
SMPI07070E-1R0M	1.0	100KHz/1V	25.0	34.8	2.81
SMPI07070E-2R2M	2.2	100KHz/1V	17.8	19.6	6.50
SMPI07070E-3R3M	3.3	100KHz/1V	15.1	19.4	9.42
SMPI07070E-4R7M	4.7	100KHz/1V	13.6	15.2	14.26
SMPI07070E-5R6M	5.6	100KHz/1V	11.4	13.0	15.03
SMPI07070E-6R8M	6.8	100KHz/1V	9.2	12.8	19.62
SMPI07070E-100M	10.0	100KHz/1V	9.3	7.5	20.17
SMPI07070E-120M	12.0	100KHz/1V	8.2	7.4	22.23
SMPI07070E-150M	15.0	100KHz/1V	7.4	7.0	29.52
SMPI07070E-180M	18.0	100KHz/1V	6.8	6.3	32.82
SMPI07070E-220M	22.0	100KHz/1V	6.5	5.6	39.69
SMPI07070E-330M	33.0	100KHz/1V	4.9	4.4	62.08
SMPI07070E-470M	47.0	100KHz/1V	4.1	4.2	97.07

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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