

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

FEATURES

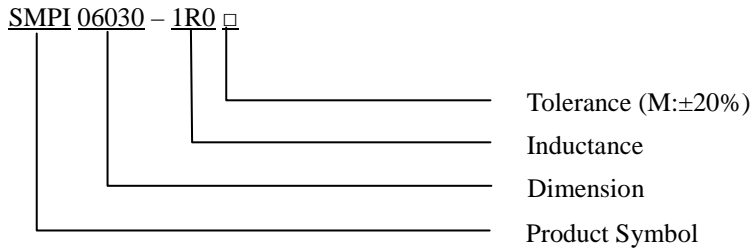
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.



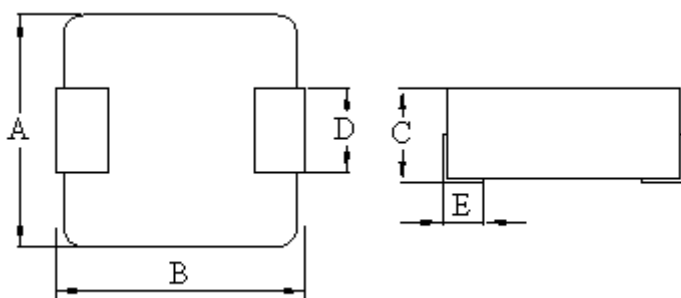
APPLICATIONS

- ◆ PDA / Notebook / Desktop, and server applications.
- ◆ DC/DC converters in distributed power systems.
- ◆ DC/DC converter for Field Programmable Gate Array(FPGA).

ORDERING CODE



DIMENSIONS UNIT: mm



A	6.6 ± 0.3	m/m
B	7.2 ± 0.5	m/m
C	3.0 (MAX)	m/m
D	3.0 (REF)	m/m
E	1.6 (REF)	m/m

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

ELECTRICAL CHARACTERISTICS FOR SMPI 06030

Part No.	Inductance (uH) @(0A)	Test Frequency	Heat Rating Current Irms(A)	Saturation Current Isat (A) drop30%	RDC (mΩ) MAX
SMPI06030-R10M	0.10	100KHz/1V	30	40.0	1.6
SMPI06030-R15M	0.15	100KHz/1V	26	35.0	2.1
SMPI06030-R22M	0.22	100KHz/1V	24	30.0	2.6
SMPI06030-R33M	0.33	100KHz/1V	21	27.0	3.5
SMPI06030-R47M	0.47	100KHz/1V	18	20.0	4.2
SMPI06030-R56M	0.56	100KHz/1V	16	18.0	4.2
SMPI06030-R68M	0.68	100KHz/1V	15	16.0	6.0
SMPI06030-R82M	0.82	100KHz/1V	14	15.5	8.5
SMPI06030-1R0M	1.00	100KHz/1V	11	15.0	11.0
SMPI06030-1R2M	1.20	100KHz/1V	10	14.0	12.5
SMPI06030-1R5M	1.50	100KHz/1V	9.0	13.0	12.5
SMPI06030-2R2M	2.20	100KHz/1V	8.0	10.0	19.0
SMPI06030-3R3M	3.30	100KHz/1V	6.0	9.0	27.6
SMPI06030-4R7M	4.70	100KHz/1V	5.0	8.0	45.0
SMPI06030-5R6M	5.60	100KHz/1V	4.5	7.0	48.0
SMPI06030-6R8M	6.80	100KHz/1V	4.0	6.5	63.0
SMPI06030-8R2M	8.20	100KHz/1V	3.5	6.0	63.0
SMPI06030-100M	10	100KHz/1V	3.0	5.0	95.0
SMPI06030-150M	15	100KHz/1V	2.8	4.0	128

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.

CORE MASTER ENTERPRISE CO., LTD.



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