

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

FEATURES

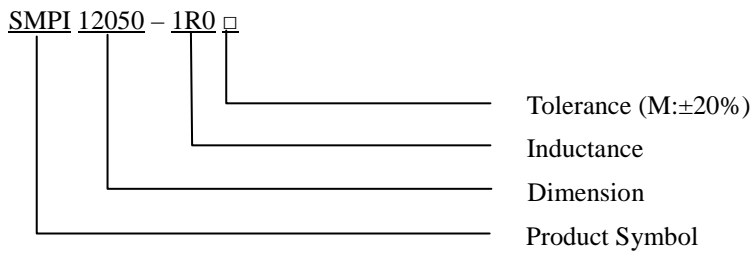
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.



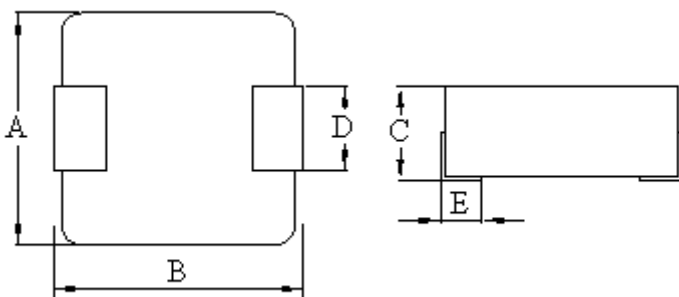
APPLICATIONS

- ◆ 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	12.8 ± 0.5	m/m
B	13.5 ± 1.0	m/m
C	5.0 (MAX)	m/m
D	3.8 (REF)	m/m
E	2.5 (REF)	m/m

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ELECTRICAL CHARACTERISTICS FOR SMPI 12050

Part No.	Inductance (uH) @(0A)	Test Frequency	Heat Rating Current Irms(A)	Saturation Current Isat (A) drop30%	RDC (mΩ) MAX
SMPI12050-R33M	0.33	100KHz/1V	40	60	1.0
SMPI12050-R36M	0.36	100KHz/1V	35	48	1.2
SMPI12050-R47M	0.47	100KHz/1V	25	45	1.2
SMPI12050-R56M	0.56	100KHz/1V	24	42	1.3
SMPI12050-R68M	0.68	100KHz/1V	23	38	1.3
SMPI12050-R82M	0.82	100KHz/1V	22	36	2.1
SMPI12050-1R0M	1.00	100KHz/1V	20	32	2.6
SMPI12050-1R2M	1.20	100KHz/1V	18	30	2.6
SMPI12050-1R5M	1.50	100KHz/1V	15	28	3.1
SMPI12050-2R2M	2.20	100KHz/1V	14	23	6.0
SMPI12050-3R3M	3.30	100KHz/1V	13	20	8.0
SMPI12050-4R7M	4.70	100KHz/1V	12	18	9.0
SMPI12050-5R6M	5.60	100KHz/1V	9.0	15	10.5
SMPI12050-6R8M	6.80	100KHz/1V	8.0	14	15.0
SMPI12050-8R2M	8.20	100KHz/1V	7.5	13	22.0
SMPI12050-100M	10	100KHz/1V	7.0	12	24.0
SMPI12050-150M	15	100KHz/1V	5.0	10	30.0
SMPI12050-220M	22	100KHz/1V	4.5	7	40.0
SMPI12050-330M	33	100KHz/1V	3.5	6	60.0
SMPI12050-470M	47	100KHz/1V	3.0	5	80.0
SMPI12050-680M	68	100KHz/1V	2.5	4	106

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.



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