

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

FEATURES

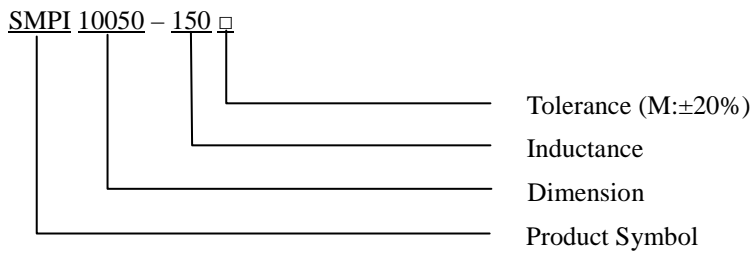
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.



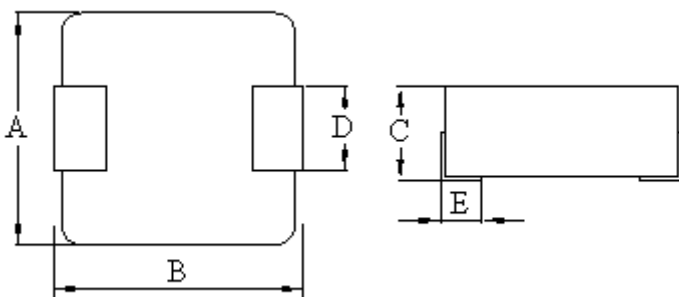
APPLICATIONS

- ◆ 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	10.0 ± 0.5	m/m
B	10.5 ± 1.0	m/m
C	5.0 (MAX)	m/m
D	3.0 (REF)	m/m
E	2.2 (REF)	m/m

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ELECTRICAL CHARACTERISTICS FOR SMPI 10050

Part No.	Inductance (uH) @(0A)	Test Frequency	Heat Rating Current Irms(A)	Saturation Current Isat (A) drop30%	RDC (mΩ) MAX
SMPI10050-R36M	0.36	100KHz/1V	36	52	1.1
SMPI10050-R68M	0.68	100KHz/1V	20	35	1.9
SMPI10050-R82M	0.82	100KHz/1V	18	30	2.5
SMPI10050-1R0M	1.00	100KHz/1V	16	28	2.5
SMPI10050-1R2M	1.20	100KHz/1V	15	25	2.8
SMPI10050-1R5M	1.50	100KHz/1V	13	21	3.1
SMPI10050-2R2M	2.20	100KHz/1V	11	20	6.2
SMPI10050-3R3M	3.30	100KHz/1V	10	15	7
SMPI10050-4R7M	4.70	100KHz/1V	9.0	15	12
SMPI10050-5R6M	5.60	100KHz/1V	8.5	14	16
SMPI10050-6R8M	6.80	100KHz/1V	8.0	13	16
SMPI10050-8R2M	8.20	100KHz/1V	7.0	12	27
SMPI10050-100M	10	100KHz/1V	7.0	11	28
SMPI10050-150M	15	100KHz/1V	6.0	10.0	42
SMPI10050-220M	22	100KHz/1V	5.0	8.0	65
SMPI10050-330M	33	100KHz/1V	4.0	6.0	95
SMPI10050-470M	47	100KHz/1V	3.5	5.5	142
SMPI10050-680M	68	100KHz/1V	3.0	5.0	218
SMPI10050-820M	82	100KHz/1V	2.5	4.5	240
SMPI10050-101M	100	100KHz/1V	2.0	4.0	250
SMPI10050-151M	150	100KHz/1V	1.8	3.5	425
SMPI10050-181M	180	100KHz/1V	1.5	3.0	460
SMPI10050-201M	200	100KHz/1V	1.2	2.5	470

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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