

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

FEATURES

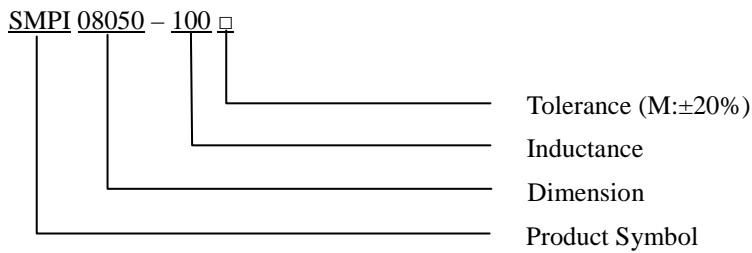
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.



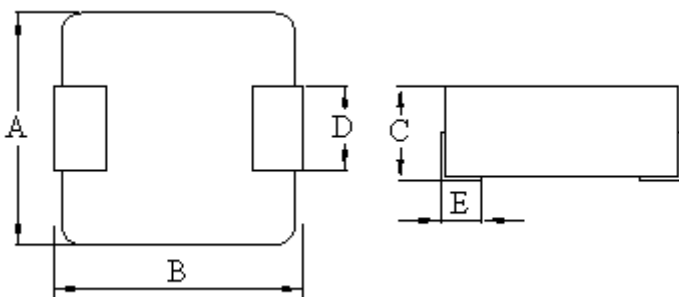
APPLICATIONS

- ◆ 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	8.0 ± 0.3	m/m
B	8.6 ± 0.6	m/m
C	5.0 (MAX)	m/m
D	3.0 (REF)	m/m
E	1.8 (REF)	m/m

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ELECTRICAL CHARACTERISTICS FOR SMPI 08050

Part No.	Inductance (uH) @(0A)	Test Frequency	Heat Rating Current Irms(A)	Saturation Current Isat (A) drop30%	RDC (mΩ) MAX
SMPI08050-R22M	0.22	100KHz/1V	20	35	1.2
SMPI08050-R68M	0.68	100KHz/1V	16	21	4.3
SMPI08050-R82M	0.82	100KHz/1V	15	20	4.8
SMPI08050-1R0M	1.00	100KHz/1V	14	19	5.8
SMPI08050-1R5M	1.50	100KHz/1V	13	18	6.5
SMPI08050-2R2M	2.20	100KHz/1V	11	17	9.0
SMPI08050-3R3M	3.30	100KHz/1V	10	15	12.5
SMPI08050-4R7M	4.70	100KHz/1V	9.0	13	19.0
SMPI08050-5R6M	5.60	100KHz/1V	8.0	12	23.5
SMPI08050-6R8M	6.80	100KHz/1V	7.0	11	25.0
SMPI08050-8R2M	8.20	100KHz/1V	6.0	10	36.0
SMPI08050-100M	10	100KHz/1V	5.5	9.0	37.0
SMPI08050-150M	15	100KHz/1V	5.0	8.0	60.0
SMPI08050-220M	22	100KHz/1V	4.0	7.0	79.0
SMPI08050-330M	33	100KHz/1V	3.5	5.0	142
SMPI08050-470M	47	100KHz/1V	3.0	4.0	165
SMPI08050-560M	56	100KHz/1V	2.0	3.5	176
SMPI08050-680M	68	100KHz/1V	1.8	2.5	206
SMPI08050-101M	100	100KHz/1V	1.5	2.0	285
SMPI08050-151M	150	100KHz/1V	1.2	1.8	430

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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