

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

FEATURES

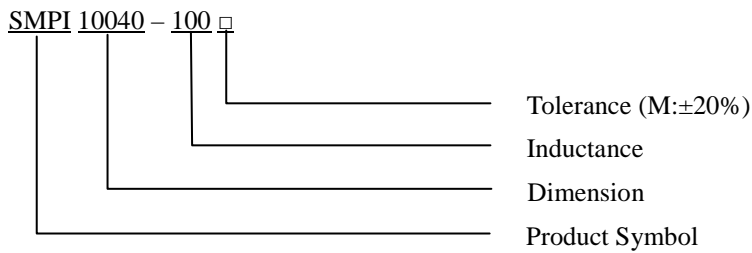
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.



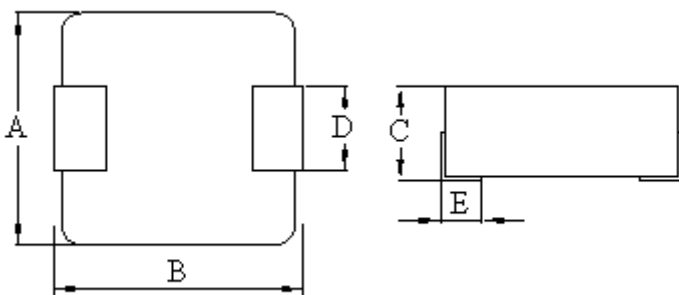
APPLICATIONS

- ◆ 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	4.0 (MAX)	m/m
D	3.0 (REF)	m/m
E	2.2 (REF)	m/m

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ELECTRICAL CHARACTERISTICS FOR SMPI 10040

Part No.	Inductance (uH) @(0A)	Test Frequency	Heat Rating Current Irms(A)	Saturation Current Isat (A) drop30%	RDC (mΩ) MAX
SMPI10040-R15M	0.15	100KHz/1V	40	70	0.75
SMPI10040-R22M	0.22	100KHz/1V	30	50	1.0
SMPI10040-R33M	0.33	100KHz/1V	28	49	1.3
SMPI10040-R36M	0.36	100KHz/1V	25	48	1.3
SMPI10040-R45M	0.45	100KHz/1V	23	40	1.5
SMPI10040-R47M	0.47	100KHz/1V	21	35	1.5
SMPI10040-R56M	0.56	100KHz/1V	19	32	2.0
SMPI10040-R68M	0.68	100KHz/1V	18	25	2.0
SMPI10040-R82M	0.82	100KHz/1V	16	22	2.5
SMPI10040-1R0M	1.00	100KHz/1V	15	20	2.5
SMPI10040-1R5M	1.50	100KHz/1V	12	18	5.2
SMPI10040-2R2M	2.20	100KHz/1V	9.0	15	7.5
SMPI10040-3R3M	3.30	100KHz/1V	8.5	14	11.5
SMPI10040-4R7M	4.70	100KHz/1V	8.0	13	14.5
SMPI10040-5R6M	5.60	100KHz/1V	7.0	12	19.0
SMPI10040-6R8M	6.80	100KHz/1V	6.0	10	21.0
SMPI10040-8R2M	8.20	100KHz/1V	5.5	9.0	32.0
SMPI10040-100M	10	100KHz/1V	5.0	8.0	36.0
SMPI10040-150M	15	100KHz/1V	4.0	7.0	60.0
SMPI10040-220M	22	100KHz/1V	3.5	6.0	68.0
SMPI10040-330M	33	100KHz/1V	3.0	5.0	100
SMPI10040-470M	47	100KHz/1V	2.0	3.5	145

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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