

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

FEATURES

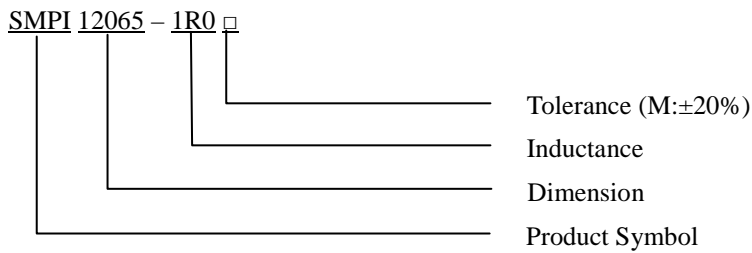
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.



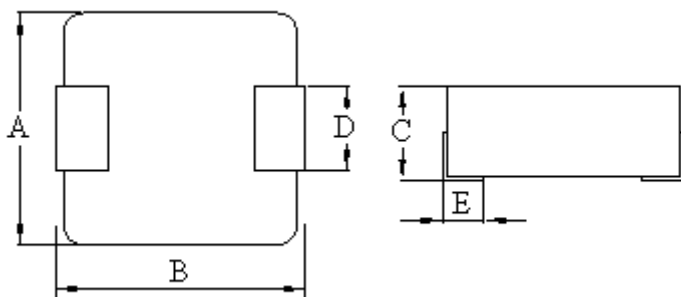
APPLICATIONS

- ◆ 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	6.5 (MAX)	m/m
D	3.8 (REF)	m/m
E	2.5 (REF)	m/m

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ELECTRICAL CHARACTERISTICS FOR SMPI 12065

Part No.	Inductance (uH) @(0A)	Test Frequency	Heat Rating Current Irms(A)	Saturation Current Isat (A) drop30%	RDC (mΩ) MAX
SMPI12065-R47M	0.47	100KHz/1V	36	50	1.1
SMPI12065-1R0M	1.00	100KHz/1V	25	36	1.8
SMPI12065-1R2M	1.20	100KHz/1V	22	34	2.6
SMPI12065-1R5M	1.50	100KHz/1V	20	32	3.3
SMPI12065-2R2M	2.20	100KHz/1V	18	26	4.5
SMPI12065-3R3M	3.30	100KHz/1V	16	24	6.5
SMPI12065-4R7M	4.70	100KHz/1V	14	22	8.5
SMPI12065-5R6M	5.60	100KHz/1V	12	20	10.5
SMPI12065-6R8M	6.80	100KHz/1V	11	18	10.5
SMPI12065-8R2M	8.20	100KHz/1V	10	16	12.5
SMPI12065-100M	10	100KHz/1V	9.0	14	13.5
SMPI12065-150M	15	100KHz/1V	7.0	13	21.0
SMPI12065-220M	22	100KHz/1V	6.5	11	38.0
SMPI12065-330M	33	100KHz/1V	6.0	9.0	57.0
SMPI12065-470M	47	100KHz/1V	5.0	7.0	68.0
SMPI12065-560M	56	100KHz/1V	4.5	6.5	95.0
SMPI12065-680M	68	100KHz/1V	4.0	5.0	95.0
SMPI12065-101M	100	100KHz/1V	3.5	4.0	110
SMPI12065-151M	150	100KHz/1V	3.0	3.5	280
SMPI12065-201M	200	100KHz/1V	2.5	3.0	290
SMPI12065-221M	220	100KHz/1V	2.0	2.8	290
SMPI12065-331M	330	100KHz/1V	1.5	2.5	485
SMPI12065-401M	400	100KHz/1V	1.3	2.0	700

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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