

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS / SMPI TYPE

FEATURES

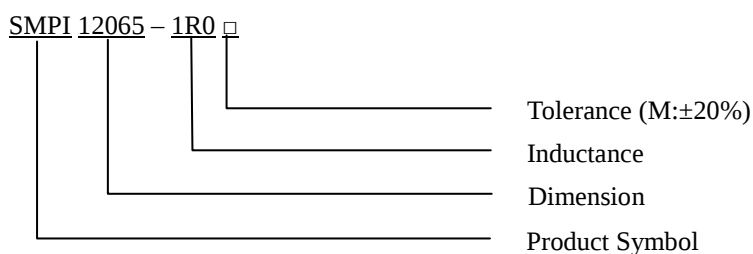
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.

APPLICATIONS

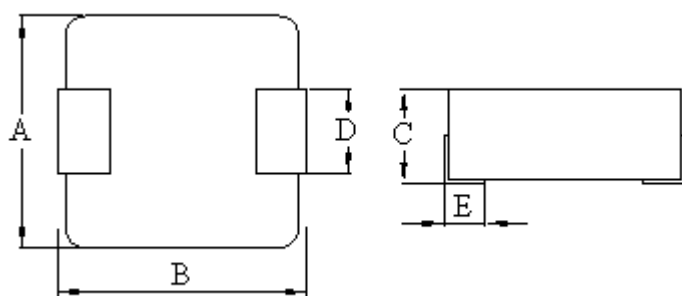
- ◆ PDA / Notebook / Desktop, and server applications.
- ◆ DC/DC converters in distributed power systems.
- ◆ DC/DC converter for Field Programmable Gate Array(FPGA).



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 ± 0.5	m/m
E	2.5 ± 0.5	m/m

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ELECTRICAL CHARACTERISTICS FOR SMPI 12065

Part No.	Inductance (uH)	Test Frequency (KHz)	RDC (mΩ) Max	IDC (A) Max
SMPI12065-R10M	0.10	100KHz/0.1V	0.52	120
SMPI12065-R15M	0.15	100KHz/0.1V	0.6	118
SMPI12065-R22M	0.22	100KHz/0.1V	0.72	112
SMPI12065-R30M	0.30	100KHz/0.1V	0.8	72.0
SMPI12065-R33M	0.33	100KHz/0.1V	0.92	65.0
SMPI12065-R36M	0.36	100KHz/0.1V	0.95	64.5
SMPI12065-R40M	0.40	100KHz/0.1V	1.00	64.0
SMPI12065-R47M	0.47	100KHz/0.1V	1.20	63.0
SMPI12065-R56M	0.56	100KHz/0.1V	1.40	62.0
SMPI12065-R68M	0.68	100KHz/0.1V	1.60	60.0
SMPI12065-R80M	0.80	100KHz/0.1V	1.85	52.0
SMPI12065-R82M	0.82	100KHz/0.1V	1.90	50.0
SMPI12065-1R0M	1.00	100KHz/0.1V	2.00	49.0
SMPI12065-1R2M	1.20	100KHz/0.1V	2.50	48.0
SMPI12065-1R5M	1.50	100KHz/0.1V	3.00	45.0
SMPI12065-1R8M	1.80	100KHz/0.1V	3.20	40.0
SMPI12065-2R2M	2.20	100KHz/0.1V	4.60	36.0
SMPI12065-3R3M	3.30	100KHz/0.1V	7.10	32.0
SMPI12065-4R7M	4.70	100KHz/0.1V	8.90	30.0
SMPI12065-5R6M	5.60	100KHz/0.1V	11.5	24.0
SMPI12065-6R8M	6.80	100KHz/0.1V	14.0	16.5
SMPI12065-7R8M	7.80	100KHz/0.1V	15.0	16.3
SMPI12065-8R2M	8.20	100KHz/0.1V	15.5	16.0
SMPI12065-100M	10.0	100KHz/0.1V	17.5	15.0
SMPI12065-150M	15.0	100KHz/0.1V	31.0	9.5
SMPI12065-180M	18.0	100KHz/0.1V	38.0	9.0
SMPI12065-220M	22.0	100KHz/0.1V	36.0	8.0
SMPI12065-330M	33.0	100KHz/0.1V	57.0	6.0
SMPI12065-470M	47.0	100KHz/0.1V	75.0	5.0
SMPI12065-560M	56.0	100KHz/0.1V	95.0	4.5
SMPI12065-680M	68.0	100KHz/0.1V	148	4.0
SMPI12065-101M	100.0	100KHz/0.1V	310	3.8
SMPI12065-151M	150.0	100KHz/0.1V	340	3.5

CORE MASTER ENTERPRISE CO., LTD.

<http://www.coremaster.com.tw>



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Notes:

- 1) All test Data is referenced to 25°C ambient
- 2) Operating Temperature Range: -40°C to +125°C