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

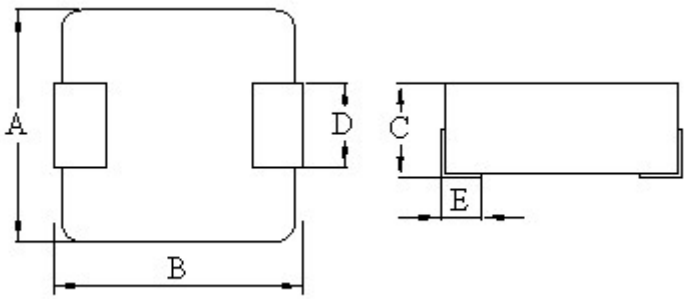
- PDA / Notebook / Desktop, and server applications.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array(FPGA).

ORDERING CODE

SMPI 12065 – 1R0 □

- Tolerance (M:±20%)
- Inductance
- Dimension
- Product Symbol

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	36.0	50	1.0
SMPI12065-1R0M	1.00	100KHz/1V	25.0	36	1.8
SMPI12065-1R2M	1.20	100KHz/1V	22.0	34	2.7
SMPI12065-1R5M	1.50	100KHz/1V	20.0	30	4.5
SMPI12065-2R2M	2.20	100KHz/1V	18.0	26	6.0
SMPI12065-3R3M	3.30	100KHz/1V	15.0	24	7.0
SMPI12065-4R7M	4.70	100KHz/1V	14.0	22	8.5
SMPI12065-5R6M	5.60	100KHz/1V	12.5	20	10.5
SMPI12065-6R8M	6.80	100KHz/1V	11.0	18	11.5
SMPI12065-8R2M	8.20	100KHz/1V	10.0	16	12.5
SMPI12065-100M	10	100KHz/1V	9.0	14	20.7
SMPI12065-150M	15	100KHz/1V	7.0	12	23.0
SMPI12065-220M	22	100KHz/1V	6.5	10	38.0
SMPI12065-330M	33	100KHz/1V	6.0	9.0	52.0
SMPI12065-470M	47	100KHz/1V	5.0	6.0	68.0
SMPI12065-560M	56	100KHz/1V	4.5	5.5	93.0
SMPI12065-680M	68	100KHz/1V	4.0	5.0	98.0
SMPI12065-820M	82	100KHz/1V	3.2	4.5	108
SMPI12065-101M	100	100KHz/1V	3.0	4.2	118
SMPI12065-121M	120	100KHz/1V	2.8	4.0	180
SMPI12065-151M	150	100KHz/1V	2.5	3.8	329
SMPI12065-201M	200	100KHz/1V	2.0	3.2	365
SMPI12065-221M	220	100KHz/1V	1.8	3.0	370
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 ± 20% ；Frequency Test：100KHz/1.0v
3) All test data is referenced to 25℃ ambient.
4) Irms : DC current (A) that will cause an approximate△T of 40℃
5) Isat : DC current (A) that will cause Lo to drop approximately 30%
6) We can design according to customer's request.