

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

FEATURES

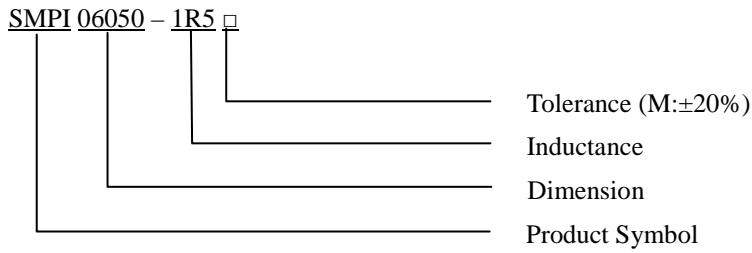
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.



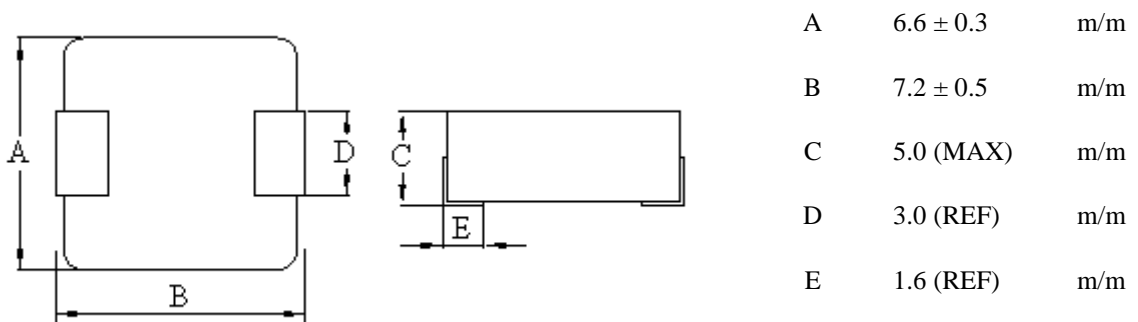
APPLICATIONS

- ◆ 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



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ELECTRICAL CHARACTERISTICS FOR SMPI 06050

Part No.	Inductance (uH) @(0A)	Test Frequency	Heat Rating Current Irms(A)	Saturation Current Isat (A) drop30%	RDC (mΩ) MAX
SMPI06050-R10M	0.10	100KHz/1V	35	50	1.6
SMPI06050-R22M	0.22	100KHz/1V	22	31	2.0
SMPI06050-R33M	0.33	100KHz/1V	23	28	2.8
SMPI06050-R47M	0.47	100KHz/1V	22	25	3.6
SMPI06050-R56M	0.56	100KHz/1V	19	22	4.5
SMPI06050-R68M	0.68	100KHz/1V	16	20	5.3
SMPI06050-R82M	0.82	100KHz/1V	14	19	6.0
SMPI06050-1R0M	1.00	100KHz/1V	13	18	6.8
SMPI06050-1R2M	1.20	100KHz/1V	12	16	6.8
SMPI06050-1R5M	1.50	100KHz/1V	11	14	8.0
SMPI06050-2R2M	2.20	100KHz/1V	10	13	12.5
SMPI06050-3R3M	3.30	100KHz/1V	9.0	11	15.5
SMPI06050-4R7M	4.70	100KHz/1V	7.5	10	20.0
SMPI06050-5R6M	5.60	100KHz/1V	6.5	8.0	23.0
SMPI06050-6R8M	6.80	100KHz/1V	5.5	7.5	28.0
SMPI06050-8R2M	8.20	100KHz/1V	5.0	7.5	41.0
SMPI06050-100M	10	100KHz/1V	4.5	7.0	41.0
SMPI06050-120M	12	100KHz/1V	4.2	6.5	53.0
SMPI06050-150M	15	100KHz/1V	4.0	6.0	62.0
SMPI06050-180M	18	100KHz/1V	3.5	5.5	88.0
SMPI06050-220M	22	100KHz/1V	3.0	5.0	93.0
SMPI06050-330M	33	100KHz/1V	2.5	4.0	145
SMPI06050-470M	47	100KHz/1V	2.0	3.0	208
SMPI06050-560M	56	100KHz/1V	1.8	2.5	248
SMPI06050-680M	68	100KHz/1V	1.5	2.0	310

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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