

# SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

## FEATURES

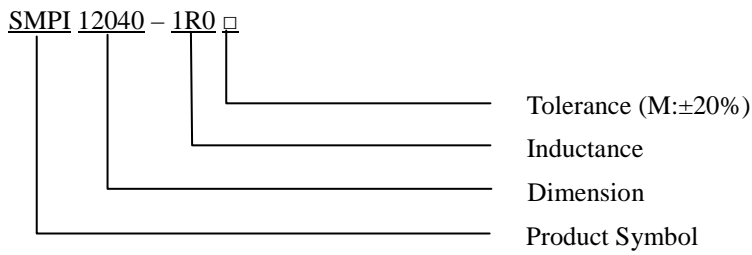
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.



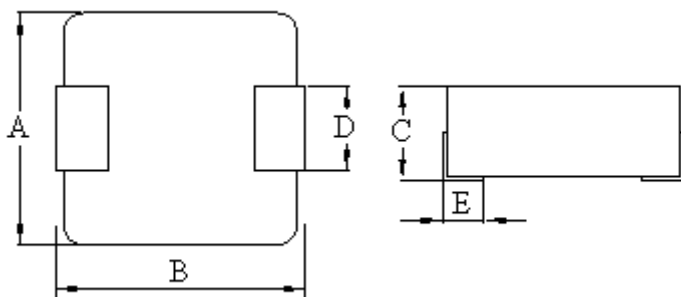
## APPLICATIONS

- ◆ 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	$12.8 \pm 0.5$	m/m
B	$13.5 \pm 1.0$	m/m
C	4.0 (MAX)	m/m
D	3.8 (REF)	m/m
E	2.5 (REF)	m/m

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## ELECTRICAL CHARACTERISTICS FOR SMPI 12040

Part No.	Inductance (uH) @(0A)	Test Frequency	Heat Rating Current Irms(A)	Saturation Current Isat ( A ) drop30%	RDC (mΩ) MAX
SMPI12040-R22M	0.22	100KHz/1V	32	50	0.9
SMPI12040-R33M	0.33	100KHz/1V	26	45	1.5
SMPI12040-R47M	0.47	100KHz/1V	23	40	1.6
SMPI12040-R68M	0.68	100KHz/1V	21	35	2.1
SMPI12040-1R0M	1.00	100KHz/1V	18	30	4.0
SMPI12040-1R5M	1.50	100KHz/1V	13	22	5.5
SMPI12040-2R2M	2.20	100KHz/1V	11	18	5.5
SMPI12040-3R3M	3.30	100KHz/1V	9	14	8.5
SMPI12040-4R7M	4.70	100KHz/1V	8	12	17.5
SMPI12040-6R8M	6.80	100KHz/1V	6	10	25
SMPI12040-8R2M	8.20	100KHz/1V	5	9	26
SMPI12040-100M	10	100KHz/1V	4	8	32

### 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  $\Delta T$  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.