

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

FEATURES

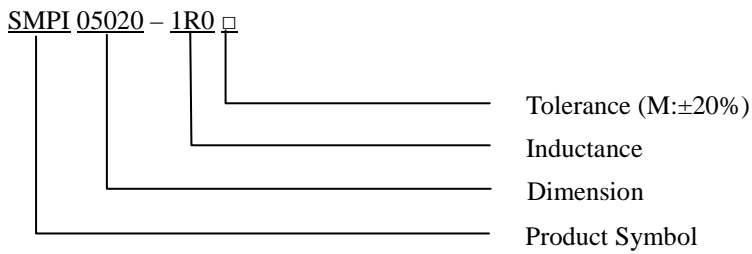
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.



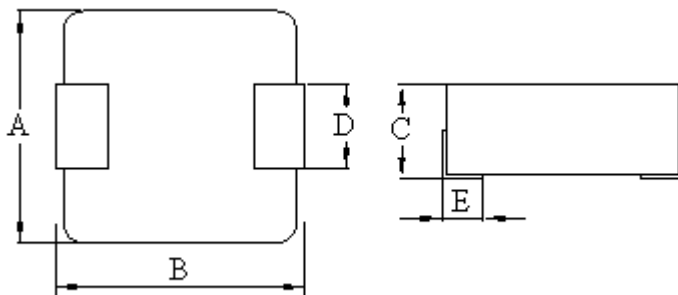
APPLICATIONS

- ◆ 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	4.7 ± 0.3	m/m
B	5.3 ± 0.4	m/m
C	2.0 (MAX)	m/m
D	2.0 ± 0.5	m/m
E	1.0 ± 0.5	m/m

CORE MASTER ENTERPRISE CO., LTD.

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ELECTRICAL CHARACTERISTICS FOR SMPI 05020

Part No.	Inductance (uH)	Test Frequency (KHz)	RDC (mΩ) Max	IDC (A) Max
SMPI05020-R47M	0.47	100KHz/0.1V	15	12.5
SMPI05020-R68M	0.68	100KHz/0.1V	20	10.0
SMPI05020-1R0M	1.00	100KHz/0.1V	21	8.0
SMPI05020-1R2M	1.20	100KHz/0.1V	27	8.0
SMPI05020-1R5M	1.50	100KHz/0.1V	26	6.0
SMPI05020-2R2M	2.20	100KHz/0.1V	42	6.0
SMPI05020-3R3M	3.30	100KHz/0.1V	58	5.5
SMPI05020-4R7M	4.70	100KHz/0.1V	90	4.5
SMPI05020-5R6M	5.60	100KHz/0.1V	97	4.0
SMPI05020-6R8M	6.80	100KHz/0.1V	130	3.5
SMPI05020-100M	10.0	100KHz/0.1V	221	3.0

Notes:

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