

# SURFACE MOUNT HIGH CURRENT POWER INDUCTORS /SMPI TYPE

## FEATURES

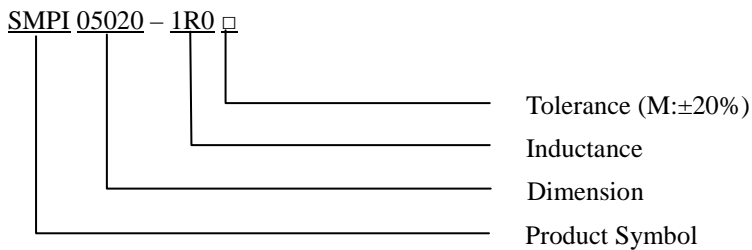
- ◆ Performance low resistance , high current rating.
- ◆ Low loss realized with low RDC.
- ◆ Low core loss.

## APPLICATIONS

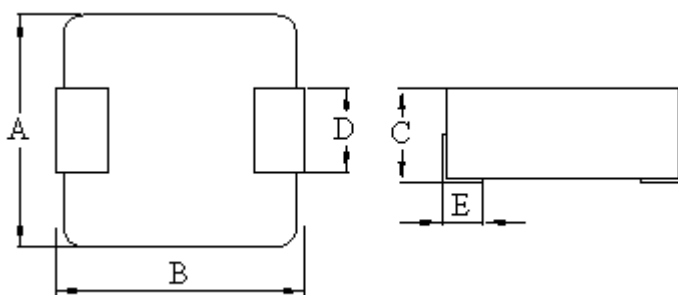
- ◆ High density DC/DC converters
- ◆ POL converters
- ◆ High current VRM/VRD for notebook/ Server/ desktop CPUs
- ◆ High speed charger



## ORDERING CODE



## DIMENSIONS UNIT: mm



|   |               |     |
|---|---------------|-----|
| A | $4.7 \pm 0.3$ | m/m |
| B | $5.3 \pm 0.4$ | m/m |
| C | 2.0 (MAX)     | m/m |
| D | $2.0 \pm 0.5$ | m/m |
| E | $1.0 \pm 0.5$ | m/m |



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### ELECTRICAL CHARACTERISTICS FOR SMPI 05020

| Part No.       | Inductance<br>(uH) | Test Frequency<br>(KHz) | RDC<br>(mΩ) Max | IDC<br>(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: -55°C to +125°C



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