

SURFACE MOUNT HIGH CURRENT POWER INDUCTORS / SMG TYPE

FEATURES

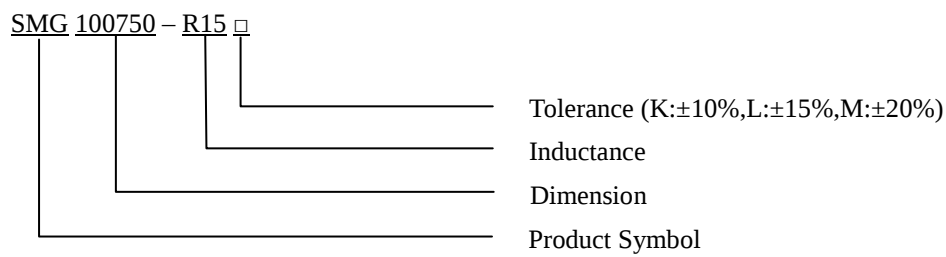
- ◆ High saturation current up to 60 A.
- ◆ Lowest core losses (MnZn).
- ◆ Extremely low DCR.
- ◆ Recommended solder profile: Reflow.
- ◆ Magnetically shielded.



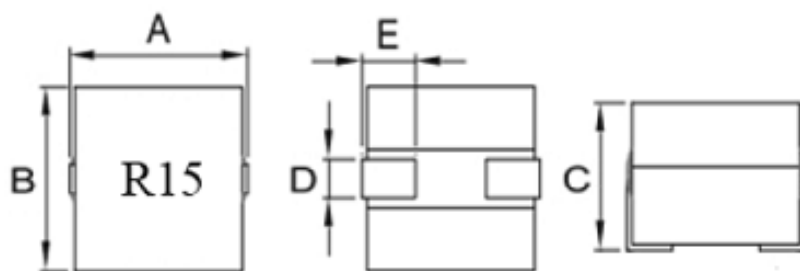
APPLICATIONS

- ◆ Multiphase switching regulator.
- ◆ CPU/RAM power supply.
- ◆ Power PC.
- ◆ Filter.

ORDERING CODE



DIMENSIONS UNIT: mm



|   |            |     |
|---|------------|-----|
| A | 10.2 (MAX) | m/m |
| B | 7.00 (MAX) | m/m |
| C | 5.00 (MAX) | m/m |
| D | 2.50 (REF) | m/m |
| E | 1.52 (REF) | m/m |

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### ELECTRICAL CHARACTERISTICS FOR SMG 100750

| Part No.        | Inductance<br>(uH) | Test Frequency<br>(KHz) | RDC<br>(mΩ) | IDC<br>(A) Max |
|-----------------|--------------------|-------------------------|-------------|----------------|
| SMG 100750-R12□ | 0.12               | 100KHz/1.0V             | 0.29 ± 7%   | 60             |
| SMG 100750-R15□ | 0.15               | 100KHz/1.0V             | 0.29 ± 7%   | 40             |
| SMG 100750-R20□ | 0.20               | 100KHz/1.0V             | 0.29 ± 7%   | 27             |

Notes:

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