

MTMSC8070 Series Moulded Shielded Coils - 8070 Size



Features

- High current capability
- Low DCR and high current
- Iron powder and ferrite composite
- Magnetically shielded construction
- Operating temperature: -40 °C to 125 °C

Product Image

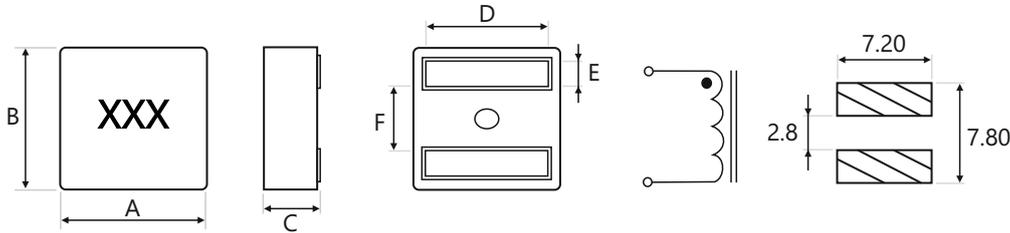


*Displayed image is only for reference purpose, original product may vary.

Applications

- POL-converters
- FPGA Power Supplies
- Battery powered devices
- Power supplies for Portable devices
- DC/DC-converter for high current power supplies

Dimensions



| A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |
|-------------|-------------|----------|-------------|-------------|-------------|
| 8.40 ± 0.30 | 8.00 ± 0.30 | 7.00 max | 6.70 ± 0.30 | 1.75 ± 0.20 | 3.15 ± 0.25 |

Electrical Specifications

| Part Number | Inductance L, (uH) | RDC (mΩ) | | Isat (A) | Irms (A) Typ. | |
|--------------|--------------------|----------|------|----------|---------------|----------|
| | | Typ. | Max. | 30% Typ. | ΔT: 20°C | ΔT: 40°C |
| MTMSC80701R0 | 1 | 2.55 | 2.81 | 34.8 | 20 | 25 |
| MTMSC80701R5 | 1.5 | 3.75 | 4.13 | 28.8 | 16.8 | 22 |
| MTMSC80701R8 | 1.8 | 4.05 | 4.46 | 25 | 15.8 | 21 |
| MTMSC80702R2 | 2.2 | 5.73 | 6.33 | 19.6 | 13.2 | 17.8 |
| MTMSC80703R3 | 3.3 | 8.56 | 9.42 | 19.4 | 11.5 | 15.1 |
| MTMSC80704R7 | 4.7 | 12.2 | 13.5 | 15.5 | 10.5 | 13.6 |
| MTMSC80706R8 | 6.8 | 17.8 | 19.6 | 12.8 | 7 | 9.5 |
| MTMSC8070100 | 10 | 24 | 26.4 | 10 | 5 | 7 |

Measurement frequency: at 100KHz/0.1V

Measurement ambient temperature: at 25°C

Isat: DC current at which the inductance drops 30%(typ) from its value without current

Inductance tolerance: ±20%

NOTE:

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