



## Features

- High mechanical stability
- High saturation currents
- Custom design on request

## Applications

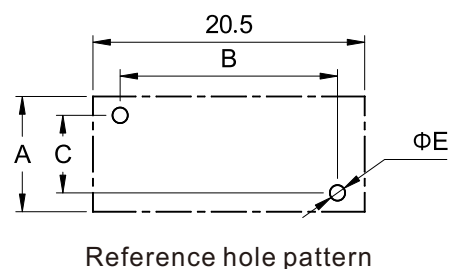
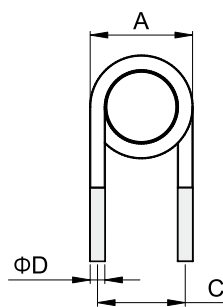
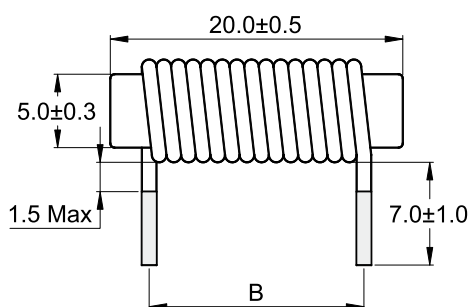
- Motors
- Switching regulators
- Power supplies, Broadband filtering

## General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



## Shape and Dimensions (Unit:mm)



| Part Number | A (max) | B (±1.0) | C (±0.5) | D (±0.15) | E (Ref) |
|-------------|---------|----------|----------|-----------|---------|
| RC0520-2R2M | 8.50    | 14.5     | 6.45     | 1.40      | 1.90    |
| RC0520-3R3M | 8.00    | 16.5     | 6.25     | 1.20      | 1.60    |
| RC0520-4R7M | 7.50    | 14.5     | 5.95     | 0.90      | 1.30    |
| RC0520-5R6M | 7.50    | 17.0     | 5.95     | 0.90      | 1.30    |
| RC0520-6R8M | 7.20    | 16.0     | 5.85     | 0.80      | 1.20    |
| RC0520-100M | 6.90    | 18.0     | 5.75     | 0.70      | 1.10    |
| RC0520-150M | 6.80    | 15.0     | 5.55     | 0.50      | 0.90    |

## Electrical Characteristics For RC0520 Series

| Part Number | Inductance [uH] | DCR (max) [mΩ] | Isat (max) [A] | Irms (max) [A] |
|-------------|-----------------|----------------|----------------|----------------|
| RC0520-2R2M | 2.2 ±20%        | 3.13           | 15.0           | 19.5           |
| RC0520-3R3M | 3.3 ±20%        | 5.48           | 11.0           | 14.8           |
| RC0520-4R7M | 4.7 ±20%        | 10.60          | 10.5           | 10.6           |
| RC0520-5R6M | 5.6 ±20%        | 11.90          | 9.50           | 10.0           |
| RC0520-6R8M | 6.8 ±20%        | 15.5           | 9.00           | 8.8            |
| RC0520-100M | 10 ±20%         | 27.4           | 7.00           | 6.6            |
| RC0520-150M | 15 ±20%         | 53.9           | 5.80           | 4.7            |

- Inductance test at 1kHz, 0.25V
- Saturation Current (Isat): The DC current at which the inductance decrease 20% of its initial value without current.
- Temperature rise current (Irms): The DC current when the temperature rise is  $\Delta t = 40^{\circ}\text{C}$  ( $T_a = 25^{\circ}\text{C}$ )