

## THROUGH-HOLE HIGH CURRENT RADIAL ROD CHOKES

# RC- SERIES

### 0205,0310,0415,0520,0630

#### FEATURES:

- Low cost design general Purpose inductor
- High Saturation current
- Easy construction that uses Ferrite rod cores

#### OPTIONS:

- Packaging:Tape & Reel is standard (Qty:2000pcs)  
Bulk packaging available for smaller quantities
- Tolerance:10% and 5% is standard,  
tighter tolerances available

#### COMMON APPLICATIONS:

- Switching Regulators
- Automotive Systems
- Power Amplifiers
- Power Supplies
- EMI/RFI suppression
- DC line Filters

### ELECTRICAL CHARACTERISTICS :

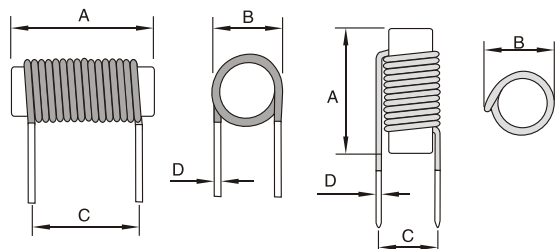
| Part Number | L<br>μH | DCR<br>Ω<br>Max | IDC<br>A<br>Max | SRF<br>(MHz)<br>Min | Wire size<br>(mm) | Turns |
|-------------|---------|-----------------|-----------------|---------------------|-------------------|-------|
| RC0205-1R0K | 1.0     | 0.040           | 0.56            | 200                 | 0.30              | 11.5  |
| RC0205-1R2K | 1.2     | 0.040           | 0.56            | 180                 | 0.30              | 12.5  |
| RC0310-1R8K | 1.8     | 0.026           | 1.90            | 160                 | 0.55              | 11.5  |
| RC0310-2R2K | 2.2     | 0.028           | 1.57            | 150                 | 0.50              | 13.5  |
| RC0310-2R7K | 2.7     | 0.030           | 1.57            | 140                 | 0.50              | 15.5  |
| RC0310-3R3K | 3.3     | 0.035           | 1.27            | 135                 | 0.45              | 17.5  |
| RC0310-3R9K | 3.9     | 0.050           | 1.00            | 110                 | 0.40              | 18.5  |
| RC0310-4R7K | 4.7     | 0.070           | 0.76            | 90                  | 0.35              | 19.5  |
| RC0415-4R7K | 4.7     | 0.024           | 2.26            | 90                  | 0.60              | 17.5  |
| RC0415-5R6K | 5.6     | 0.030           | 1.90            | 80                  | 0.55              | 18.5  |
| RC0415-6R8K | 6.8     | 0.040           | 1.57            | 80                  | 0.50              | 18.5  |
| RC0415-8R2K | 8.2     | 0.060           | 1.27            | 80                  | 0.45              | 21.5  |
| RC0415-100K | 10      | 0.080           | 1.00            | 70                  | 0.40              | 24.5  |
| RC0520-100K | 10      | 0.040           | 2.65            | 60                  | 0.65              | 22.5  |
| RC0520-120K | 12      | 0.044           | 2.26            | 55                  | 0.60              | 23.5  |
| RC0520-150K | 15      | 0.060           | 1.90            | 45                  | 0.55              | 27.5  |
| RC0520-180K | 18      | 0.080           | 1.57            | 40                  | 0.50              | 29.5  |
| RC0520-220K | 22      | 0.100           | 1.27            | 38                  | 0.45              | 32.5  |
| RC0520-270K | 27      | 0.150           | 1.00            | 36                  | 0.40              | 36.5  |
| RC0630-4R7K | 4.7     | 0.005           | 16.08           | 85                  | 1.60              | 12.5  |
| RC0630-5R6K | 5.6     | 0.005           | 16.08           | 80                  | 1.60              | 14.5  |
| RC0630-6R8K | 6.8     | 0.008           | 10.61           | 75                  | 1.30              | 15.5  |
| RC0630-8R2K | 8.2     | 0.009           | 9.04            | 67                  | 1.20              | 16.5  |
| RC0630-100K | 10      | 0.010           | 9.04            | 64                  | 1.20              | 19.5  |
| RC0630-120K | 12      | 0.018           | 6.28            | 57                  | 1.00              | 20.5  |
| RC0630-150K | 15      | 0.023           | 5.08            | 53                  | 0.90              | 23.5  |
| RC0630-180K | 18      | 0.030           | 4.02            | 49                  | 0.80              | 24.5  |
| RC0630-220K | 22      | 0.045           | 3.07            | 44                  | 0.70              | 27.5  |
| RC0630-270K | 27      | 0.050           | 3.07            | 42                  | 0.70              | 31.5  |
| RC0630-330K | 33      | 0.060           | 2.65            | 36                  | 0.65              | 35.5  |
| RC0630-390K | 39      | 0.080           | 2.26            | 34                  | 0.60              | 40.5  |
| RC0630-470K | 47      | 0.110           | 1.90            | 32                  | 0.55              | 44.5  |
| RC0630-560K | 56      | 0.140           | 1.57            | 30                  | 0.50              | 46.5  |

Note:1. K= ± 10%, M= ± 20%

### TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Inductance measured with zero D.C current
- Increment current reduces inductance by ≤ 10%
- Operating temperature: -20°C~+80°C
- Test Equipment

DIMENSIONS IN:mm



| Part number | A        | B       | C   | D   |
|-------------|----------|---------|-----|-----|
| RC0205      | 6.00Max  | 3.50Max | TBD | TBD |
| RC0310      | 11.00Max | 5.00Max | TBD | TBD |
| RC0415      | 16.00Max | 5.50Max | TBD | TBD |
| RC0520      | 21.00Max | 7.00Max | TBD | TBD |
| RC0630      | 31.00Max | 9.50Max | TBD | TBD |

Note:All specifications subject to change without notice.