ORITAC

Rod Choke Power Inductor > RC0630

2022

## Features

- RC Series is available I 120 standard values.
  covering a wide range of inductance and cureent.
- The use of high saturation flux density material makes these coils
  ideal for use in switching regulated power supply applixation and
  wherever high current choke values in a smal  physical size are needed.

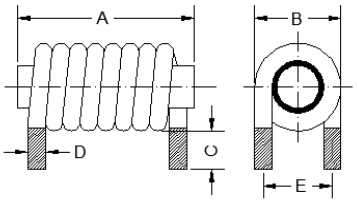
## Applications

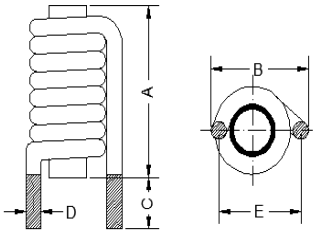
- Excellent for poer line DC-DC conversion applications used in
  Power Switching, personal computers and electronic eqquipments

## Shapes and Dimensions

Horizontal type

Vertical type




| Type | A | B | C | D | E |
|---|---|---|---|---|---|
| RC0630H | 30.0 ± 0.5 | 10.5 max. | 5.0 ± 0.5 | 0.5~2.0 | 7.0~9.5 |
| RC0630V | 30.0 ± 0.5 | 12.5 max. | 5.0 ± 0.5 | 0.5~2.0 | 7.5~10.5 |

## Electrical Characteristics

| Part Number | Inductance (uH) | Measuring Freq. (KHz) | D.C.R ( Ω) max. | Irms (A) max. |
|---|---|---|---|---|
| RC0630H/V-4R7MB | 4.7 ± 20% | 1 | 0.005 | 16.50 |
| RC0630H/V-5R6MB | 5.6 ± 20% | 1 | 0.006 | 16.00 |
| RC0630H/V-6R8MB | 6.8 ± 20% | 1 | 0.008 | 10.50 |
| RC0630H/V-8R2MB | 8.2 ± 20% | 1 | 0.009 | 9.00 |
| RC0630H/V-100MB | 10.0 ± 20% | 1 | 0.010 | 8.00 |
| RC0630H/V-120MB | 12.0 ± 20% | 1 | 0.018 | 6.50 |
| RC0630H/V-150MB | 15.0 ± 20% | 1 | 0.023 | 5.00 |
| RC0630H/V-180MB | 18.0 ± 20% | 1 | 0.030 | 4.00 |
| RC0630H/V-220MB | 22.0 ± 20% | 1 | 0.045 | 3.00 |
| RC0630H/V-270MB | 27.0 ± 20% | 1 | 0.050 | 2.70 |
| RC0630H/V-330MB | 33.0 ± 20% | 1 | 0.060 | 2.50 |
| RC0630H/V-390MB | 39.0 ± 20% | 1 | 0.080 | 2.30 |
| RC0630H/V-470MB | 47.0 ± 20% | 1 | 0.110 | 1.90 |
| RC0630H/V-560MB | 56.0 ± 20% | 1 | 0.140 | 1.60 |

NOTES:

Isat: DC current at which the inductance drops approximately 30% from its value without current.

Irms: DC current that causes the temperature rise (ΔT=40°C) from 20°C ambient