

# RCR1616

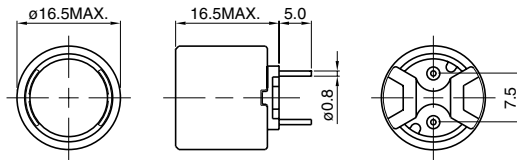
## OUTLINE

RCR1616 is  $\phi 16$  Pin type power inductor is used for strong currents and is magnetically shielded.



(4.7 $\mu$ H – 1.00mH)

## DIMENSIONS(mm)



## CONSTRUCTION



## SPECIFICATIONS

| Parts No.    | Stamp | Inductance(Within)<br>(at 1 kHz) | D.C.R.( $\Omega$ )<br>*1<br>(at 20°C) | Saturation Rated<br>Current(A)<br>*A | Temperature Rise<br>Rated Current<br>*I |
|--------------|-------|----------------------------------|---------------------------------------|--------------------------------------|---|
| RCR1616-4R7M | 4R7M  | 4.7 $\mu$ H $\pm$ 20%            | 6.70m(5.15m)                          | 12.60                                | 9.2                                     |
| RCR1616-6R8M | 6R8M  | 6.8 $\mu$ H $\pm$ 20%            | 9.35m(7.20m)                          | 9.80                                 | 8.0                                     |
| RCR1616-100M | 100M  | 10 $\mu$ H $\pm$ 20%             | 10.5m(8.25m)                          | 9.30                                 | 7.8                                     |
| RCR1616-120M | 120M  | 12 $\mu$ H $\pm$ 20%             | 11.0m(8.47m)                          | 8.50                                 | 7.4                                     |
| RCR1616-150M | 150M  | 15 $\mu$ H $\pm$ 20%             | 14.5m(11.2m)                          | 7.10                                 | 6.2                                     |
| RCR1616-180M | 180M  | 18 $\mu$ H $\pm$ 20%             | 16.5m(12.7m)                          | 6.70                                 | 6.0                                     |
| RCR1616-220M | 220M  | 22 $\mu$ H $\pm$ 20%             | 17.0m(13.0m)                          | 6.20                                 | 5.7                                     |
| RCR1616-270M | 270M  | 27 $\mu$ H $\pm$ 20%             | 20.0m(15.2m)                          | 5.60                                 | 5.2                                     |
| RCR1616-330M | 330M  | 33 $\mu$ H $\pm$ 20%             | 27.0m(20.5m)                          | 5.00                                 | 4.8                                     |
| RCR1616-390M | 390M  | 39 $\mu$ H $\pm$ 20%             | 33.0m(25.4m)                          | 4.60                                 | 4.5                                     |
| RCR1616-470M | 470M  | 47 $\mu$ H $\pm$ 20%             | 37.0m(28.4m)                          | 4.20                                 | 4.1                                     |
| RCR1616-560M | 560M  | 56 $\mu$ H $\pm$ 20%             | 45.0m(34.5m)                          | 3.80                                 | 3.8                                     |
| RCR1616-680M | 680M  | 68 $\mu$ H $\pm$ 20%             | 56.0m(43.0m)                          | 3.30                                 | 3.4                                     |
| RCR1616-820M | 820M  | 82 $\mu$ H $\pm$ 20%             | 64.5m(49.5m)                          | 2.90                                 | 3.1                                     |
| RCR1616-101K | 101K  | 100 $\mu$ H $\pm$ 10%            | 68.0m(52.5m)                          | 2.70                                 | 2.9                                     |
| RCR1616-121K | 121K  | 120 $\mu$ H $\pm$ 10%            | 80.0m(61.7m)                          | 2.50                                 | 2.6                                     |
| RCR1616-151K | 151K  | 150 $\mu$ H $\pm$ 10%            | 91.0m(70.0m)                          | 2.30                                 | 2.4                                     |
| RCR1616-181K | 181K  | 180 $\mu$ H $\pm$ 10%            | 135m(104m)                            | 2.00                                 | 2.0                                     |
| RCR1616-221K | 221K  | 220 $\mu$ H $\pm$ 10%            | 155m(119m)                            | 1.80                                 | 1.8                                     |
| RCR1616-271K | 271K  | 270 $\mu$ H $\pm$ 10%            | 180m(140m)                            | 1.70                                 | 1.7                                     |
| RCR1616-331K | 331K  | 330 $\mu$ H $\pm$ 10%            | 240m(183m)                            | 1.50                                 | 1.4                                     |
| RCR1616-391K | 391K  | 390 $\mu$ H $\pm$ 10%            | 255m(196m)                            | 1.30                                 | 1.3                                     |
| RCR1616-471K | 471K  | 470 $\mu$ H $\pm$ 10%            | 280m(215m)                            | 1.20                                 | 1.3                                     |
| RCR1616-561K | 561K  | 560 $\mu$ H $\pm$ 10%            | 380m(291m)                            | 1.10                                 | 1.1                                     |
| RCR1616-681K | 681K  | 680 $\mu$ H $\pm$ 10%            | 515m(397m)                            | 1.00                                 | 1.0                                     |
| RCR1616-821K | 821K  | 820 $\mu$ H $\pm$ 10%            | 575m(443m)                            | 960m                                 | 990m                                    |
| RCR1616-102K | 102K  | 1.00mH $\pm$ 10%                 | 665m(513m)                            | 850m                                 | 930m                                    |

\*1:( ) is typical. value.

Other

\*A Saturation Rated Current : The current when the inductance becomes 10% lower than its initial value.(Ta=20°C)

\*I Temperature Rise Rated Current : The current when temperature of coil increases up to Max. $\Delta$ T=40°C.(Ta=20°C)