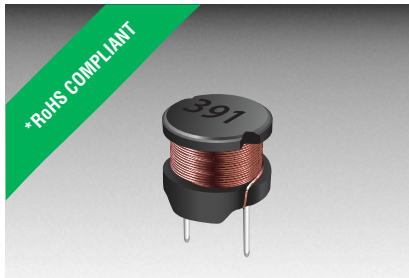




**THE DATASHEET OF  
RL875-681K-RC**





**BOURNS®**

## Features

- Formerly J. W. Miller® model
- Current rating up to 2.9 A
- Inductance range: 10  $\mu$ H to 10,000  $\mu$ H
- RoHS compliant\*

## Applications

- DC/DC converters
- Power supplies
- Desktop notebooks
- Output chokes

# RL875 Series - Radial Lead RF Choke

### Electrical Specifications (@ 25 °C)

| Part Number   | Inductance ( $\mu$ H) | Tol.       | Q  | Test Frequency |         | SRF (MHz) Typ. | DCR ( $\Omega$ ) Max. | I dc (mA) |
|---------------|-----------------------|------------|----|----------------|---------|----------------|-----------------------|-----------|
|               |                       |            |    | L              | Q       |                |                       |           |
| RL875-100M-RC | 10                    | $\pm 20$ % | 35 | 2.52 MHz       | 2.52M   | 25             | 0.05                  | 2900      |
| RL875-120M-RC | 12                    | $\pm 20$ % | 35 | 2.52 MHz       | 2.52M   | 18             | 0.06                  | 2500      |
| RL875-150K-RC | 15                    | $\pm 10$ % | 30 | 2.52 MHz       | 2.52M   | 17             | 0.07                  | 2200      |
| RL875-180K-RC | 18                    | $\pm 10$ % | 30 | 2.52 MHz       | 2.52M   | 15             | 0.08                  | 1900      |
| RL875-220K-RC | 22                    | $\pm 10$ % | 30 | 2.52 MHz       | 2.52M   | 14             | 0.09                  | 1800      |
| RL875-270K-RC | 27                    | $\pm 10$ % | 30 | 2.52 MHz       | 2.52M   | 13             | 0.11                  | 1700      |
| RL875-330K-RC | 33                    | $\pm 10$ % | 30 | 2.52 MHz       | 2.52M   | 12             | 0.13                  | 1500      |
| RL875-390K-RC | 39                    | $\pm 10$ % | 30 | 2.52 MHz       | 2.52M   | 10             | 0.14                  | 1300      |
| RL875-470K-RC | 47                    | $\pm 10$ % | 26 | 2.52 MHz       | 2.52M   | 10             | 0.15                  | 1300      |
| RL875-560K-RC | 56                    | $\pm 10$ % | 26 | 2.52 MHz       | 2.52M   | 10             | 0.18                  | 1200      |
| RL875-680K-RC | 68                    | $\pm 10$ % | 26 | 2.52 MHz       | 2.52M   | 9.0            | 0.20                  | 1100      |
| RL875-820K-RC | 82                    | $\pm 10$ % | 20 | 2.52 MHz       | 2.52M   | 8.0            | 0.24                  | 1000      |
| RL875-101K-RC | 100                   | $\pm 10$ % | 20 | 1.0 KHz        | 0.796M  | 7.0            | 0.28                  | 890       |
| RL875-121K-RC | 120                   | $\pm 10$ % | 18 | 1.0 KHz        | 0.796M  | 6.5            | 0.36                  | 810       |
| RL875-151K-RC | 150                   | $\pm 10$ % | 18 | 1.0 KHz        | 0.796M  | 5.5            | 0.42                  | 720       |
| RL875-181K-RC | 180                   | $\pm 10$ % | 18 | 1.0 KHz        | 0.796M  | 5.5            | 0.57                  | 660       |
| RL875-221K-RC | 220                   | $\pm 10$ % | 18 | 1.0 KHz        | 0.796M  | 5.0            | 0.63                  | 570       |
| RL875-271K-RC | 270                   | $\pm 10$ % | 18 | 1.0 KHz        | 0.796M  | 4.5            | 0.88                  | 510       |
| RL875-331K-RC | 330                   | $\pm 10$ % | 20 | 1.0 KHz        | 0.796M  | 4.5            | 1.05                  | 460       |
| RL875-391K-RC | 390                   | $\pm 10$ % | 20 | 1.0 KHz        | 0.796M  | 3.5            | 1.17                  | 440       |
| RL875-471K-RC | 470                   | $\pm 10$ % | 20 | 1.0 KHz        | 0.796M  | 3.0            | 1.34                  | 410       |
| RL875-561K-RC | 560                   | $\pm 10$ % | 20 | 1.0 KHz        | 0.796M  | 3.0            | 1.72                  | 360       |
| RL875-681K-RC | 680                   | $\pm 10$ % | 20 | 1.0 KHz        | 0.796M  | 2.5            | 1.96                  | 330       |
| RL875-821K-RC | 820                   | $\pm 10$ % | 20 | 1.0 KHz        | 0.796M  | 2.5            | 2.56                  | 300       |
| RL875-102K-RC | 1000                  | $\pm 10$ % | 35 | 1.0 KHz        | 0.252M  | 2.0            | 2.94                  | 270       |
| RL875-122K-RC | 1200                  | $\pm 10$ % | 35 | 1.0 KHz        | 0.252M  | 2.0            | 4.04                  | 240       |
| RL875-152K-RC | 1500                  | $\pm 10$ % | 35 | 1.0 KHz        | 0.252M  | 1.5            | 4.70                  | 220       |
| RL875-182K-RC | 1800                  | $\pm 10$ % | 35 | 1.0 KHz        | 0.252M  | 1.5            | 5.05                  | 200       |
| RL875-222K-RC | 2200                  | $\pm 10$ % | 35 | 1.0 KHz        | 0.252M  | 1.5            | 6.25                  | 180       |
| RL875-272K-RC | 2700                  | $\pm 10$ % | 35 | 1.0 KHz        | 0.252M  | 1.5            | 8.72                  | 160       |
| RL875-332K-RC | 3300                  | $\pm 10$ % | 35 | 1.0 KHz        | 0.252M  | 1.0            | 10.6                  | 150       |
| RL875-392K-RC | 3900                  | $\pm 10$ % | 35 | 1.0 KHz        | 0.252M  | 1.0            | 14.2                  | 140       |
| RL875-472K-RC | 4700                  | $\pm 10$ % | 35 | 1.0 KHz        | 0.252M  | 1.0            | 16.7                  | 120       |
| RL875-562K-RC | 5600                  | $\pm 10$ % | 35 | 1.0 KHz        | 0.252M  | 1.0            | 18.7                  | 110       |
| RL875-682K-RC | 6800                  | $\pm 10$ % | 35 | 1.0 KHz        | 0.252M  | 1.0            | 21.8                  | 100       |
| RL875-822K-RC | 8200                  | $\pm 10$ % | 32 | 1.0 KHz        | 0.252M  | 0.50           | 28.7                  | 93        |
| RL875-103K-RC | 10,000                | $\pm 10$ % | 32 | 1.0 KHz        | 0.0796M | 0.50           | 33.0                  | 84        |

### General Specifications

Rated Current..... Inductance drop 10 %, or temperature rise of 40 °C at I dc  
 Operating Temperature ..... -40 °C to +105 °C  
 Storage Temperature ..... -40 °C to +105 °C

### Materials

Core Material..... Ferrite  
 Wire ..... Enameled copper  
 Terminal Coating..... Sn

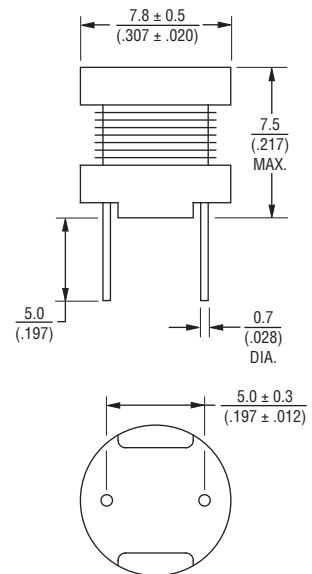
### Marking

..... Value code on top of inductor

### Packaging

Standard..... 100 pcs. per bag

### Product Dimensions



DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

### How To Order

**RL875 - 152K - RC**

Model \_\_\_\_\_  
 Value/Tolerance Code (see table) \_\_\_\_\_  
 Compliance Code \_\_\_\_\_  
 RC = RoHS Compliant

Example:  
 RL875-152K-RC = 1500  $\mu$ H,  $\pm 10$  %

### Electrical Schematic



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
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