



### Features

- Formerly *JW.Miller* model
- Current rating up to 2.2 A
- Inductance range: 10  $\mu$ H to 3900  $\mu$ H
- RoHS compliant\*

### Applications

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

## RL824 Series - Radial Lead RF Choke

### Electrical Specifications (@ 25 °C)

| Part Number   | Inductance ( $\mu$ H) | Tol.       | Q   | Test Frequency |         | SRF (MHz) Min. | DCR ( $\Omega$ ) Max. | I dc (A) |
|---------------|-----------------------|------------|-----|----------------|---------|----------------|-----------------------|----------|
|               |                       |            |     | L (KHz)        | Q (MHz) |                |                       |          |
| RL824-100K-RC | 10                    | $\pm 10\%$ | 135 | 1.0            | 2.5     | 44             | 0.052                 | 2.20     |
| RL824-120K-RC | 12                    | $\pm 10\%$ | 135 | 1.0            | 2.5     | 33             | 0.059                 | 2.00     |
| RL824-150K-RC | 15                    | $\pm 10\%$ | 135 | 1.0            | 2.5     | 25             | 0.065                 | 1.93     |
| RL824-180K-RC | 18                    | $\pm 10\%$ | 135 | 1.0            | 2.5     | 18             | 0.071                 | 1.77     |
| RL824-220K-RC | 22                    | $\pm 10\%$ | 135 | 1.0            | 2.5     | 12             | 0.076                 | 1.72     |
| RL824-270K-RC | 27                    | $\pm 10\%$ | 90  | 1.0            | 2.5     | 8.3            | 0.082                 | 1.56     |
| RL824-330K-RC | 33                    | $\pm 10\%$ | 90  | 1.0            | 2.5     | 5.9            | 0.086                 | 1.49     |
| RL824-390K-RC | 39                    | $\pm 10\%$ | 90  | 1.0            | 2.5     | 4.9            | 0.10                  | 1.40     |
| RL824-470K-RC | 47                    | $\pm 10\%$ | 58  | 1.0            | 2.5     | 4.1            | 0.11                  | 1.29     |
| RL824-560K-RC | 56                    | $\pm 10\%$ | 58  | 1.0            | 2.5     | 4.0            | 0.12                  | 1.25     |
| RL824-680K-RC | 68                    | $\pm 10\%$ | 58  | 1.0            | 2.5     | 3.9            | 0.13                  | 1.24     |
| RL824-820K-RC | 82                    | $\pm 10\%$ | 58  | 1.0            | 2.5     | 3.6            | 0.14                  | 1.04     |
| RL824-101K-RC | 100                   | $\pm 10\%$ | 58  | 1.0            | 0.79    | 2.8            | 0.18                  | 1.02     |
| RL824-121K-RC | 120                   | $\pm 10\%$ | 58  | 1.0            | 0.79    | 2.6            | 0.19                  | 0.94     |
| RL824-151K-RC | 150                   | $\pm 10\%$ | 58  | 1.0            | 0.79    | 2.2            | 0.22                  | 0.92     |
| RL824-181K-RC | 180                   | $\pm 10\%$ | 58  | 1.0            | 0.79    | 2.1            | 0.25                  | 0.85     |
| RL824-221K-RC | 220                   | $\pm 10\%$ | 35  | 1.0            | 0.79    | 1.9            | 0.28                  | 0.82     |
| RL824-271K-RC | 270                   | $\pm 10\%$ | 35  | 1.0            | 0.79    | 1.6            | 0.48                  | 0.60     |
| RL824-331K-RC | 330                   | $\pm 10\%$ | 35  | 1.0            | 0.79    | 1.5            | 0.50                  | 0.56     |
| RL824-391K-RC | 390                   | $\pm 10\%$ | 35  | 1.0            | 0.79    | 1.4            | 0.56                  | 0.52     |
| RL824-471K-RC | 470                   | $\pm 10\%$ | 35  | 1.0            | 0.79    | 1.3            | 0.62                  | 0.48     |
| RL824-561K-RC | 560                   | $\pm 10\%$ | 26  | 1.0            | 0.79    | 1.2            | 0.69                  | 0.45     |
| RL824-681K-RC | 680                   | $\pm 10\%$ | 26  | 1.0            | 0.79    | 1.1            | 0.79                  | 0.44     |
| RL824-821K-RC | 820                   | $\pm 10\%$ | 26  | 1.0            | 0.79    | 1.0            | 0.86                  | 0.40     |
| RL824-102K-RC | 1000                  | $\pm 10\%$ | 26  | 1.0            | 0.25    | 0.87           | 1.60                  | 0.31     |
| RL824-122K-RC | 1200                  | $\pm 10\%$ | 45  | 1.0            | 0.25    | 0.83           | 1.80                  | 0.28     |
| RL824-152K-RC | 1500                  | $\pm 10\%$ | 45  | 1.0            | 0.25    | 0.77           | 2.10                  | 0.27     |
| RL824-182K-RC | 1800                  | $\pm 10\%$ | 45  | 1.0            | 0.25    | 0.71           | 2.30                  | 0.24     |
| RL824-222K-RC | 2200                  | $\pm 10\%$ | 35  | 1.0            | 0.25    | 0.66           | 2.80                  | 0.24     |
| RL824-272K-RC | 2700                  | $\pm 10\%$ | 35  | 1.0            | 0.25    | 0.61           | 3.35                  | 0.19     |
| RL824-332K-RC | 3300                  | $\pm 10\%$ | 35  | 1.0            | 0.25    | 0.52           | 4.00                  | 0.18     |
| RL824-392K-RC | 3900                  | $\pm 10\%$ | 35  | 1.0            | 0.25    | 0.48           | 4.50                  | 0.18     |

### General Specifications

Rated Current.....Inductance drop 10 %  
 Operating Temperature  
 ..... -55 °C to +105 °C  
 Storage Temperature  
 ..... -55 °C to +105 °C

### Materials

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

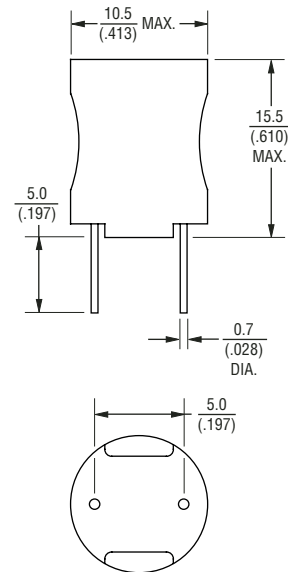
### Marking

..... Value code on side of inductor

### Packaging

Standard..... 100 pcs. per bag

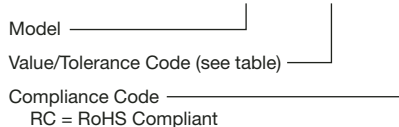
### Product Dimensions



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

### How To Order

#### RL824 - 152K - RC



Example:  
 RL824-152K-RC = 1500  $\mu$ H,  $\pm 10\%$

### Electrical Schematic

