



## Features

- Formerly J.W. Miller® model
- Current rating up to 10 A
- Inductance range: 1  $\mu$ H to 100,000  $\mu$ H
- RoHS compliant\*

## Applications

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

# RL622 Series - Radial Lead RF Choke

## Electrical Specifications (@ 25 °C)

| Part Number   | Inductance ( $\mu$ H) | Tol.  | Q (Min.) | Test Frequency |          | SRF (MHz) Typ. | DCR ( $\Omega$ ) Max. | I <sub>dc</sub> (A) |
|---------------|-----------------------|-------|----------|----------------|----------|----------------|-----------------------|---------------------|
|               |                       |       |          | L              | Q        |                |                       |                     |
| RL622-1R0K-RC | 1.0                   | ±10 % | 20       | 7.96 MHz       | 7.96 MHz | 150            | 0.013                 | 10                  |
| RL622-1R5K-RC | 1.5                   | ±10 % | 20       | 7.96 MHz       | 7.96 MHz | 130            | 0.016                 | 8.5                 |
| RL622-2R2K-RC | 2.2                   | ±10 % | 20       | 7.96 MHz       | 7.96 MHz | 100            | 0.021                 | 6.5                 |
| RL622-3R3K-RC | 3.3                   | ±10 % | 20       | 7.96 MHz       | 7.96 MHz | 79             | 0.025                 | 5.5                 |
| RL622-4R7K-RC | 4.7                   | ±10 % | 20       | 7.96 MHz       | 7.96 MHz | 51             | 0.030                 | 4.3                 |
| RL622-6R8K-RC | 6.8                   | ±10 % | 20       | 7.96 MHz       | 7.96 MHz | 29             | 0.035                 | 3.7                 |
| RL622-100K-RC | 10                    | ±10 % | 50       | 2.52 MHz       | 2.52 MHz | 14             | 0.045                 | 3.0                 |
| RL622-120K-RC | 12                    | ±10 % | 50       | 2.52 MHz       | 2.52 MHz | 13             | 0.050                 | 2.7                 |
| RL622-150K-RC | 15                    | ±10 % | 40       | 2.52 MHz       | 2.52 MHz | 12             | 0.056                 | 2.3                 |
| RL622-180K-RC | 18                    | ±10 % | 40       | 2.52 MHz       | 2.52 MHz | 11             | 0.061                 | 2.2                 |
| RL622-220K-RC | 22                    | ±10 % | 40       | 2.52 MHz       | 2.52 MHz | 9.2            | 0.070                 | 2.0                 |
| RL622-270K-RC | 27                    | ±10 % | 30       | 2.52 MHz       | 2.52 MHz | 8.5            | 0.080                 | 1.7                 |
| RL622-330K-RC | 33                    | ±10 % | 30       | 2.52 MHz       | 2.52 MHz | 7.8            | 0.090                 | 1.6                 |
| RL622-390K-RC | 39                    | ±10 % | 30       | 2.52 MHz       | 2.52 MHz | 6.9            | 0.10                  | 1.5                 |
| RL622-470K-RC | 47                    | ±10 % | 30       | 2.52 MHz       | 2.52 MHz | 6.5            | 0.16                  | 1.4                 |
| RL622-560K-RC | 56                    | ±10 % | 30       | 2.52 MHz       | 2.52 MHz | 5.4            | 0.18                  | 1.3                 |
| RL622-680K-RC | 68                    | ±10 % | 30       | 2.52 MHz       | 2.52 MHz | 4.9            | 0.21                  | 1.2                 |
| RL622-820K-RC | 82                    | ±10 % | 30       | 2.52 MHz       | 2.52 MHz | 4.1            | 0.23                  | 1.1                 |
| RL622-101K-RC | 100                   | ±10 % | 20       | 796 KHz        | 796 KHz  | 3.7            | 0.28                  | 0.91                |
| RL622-121K-RC | 120                   | ±10 % | 20       | 796 KHz        | 796 KHz  | 3.4            | 0.32                  | 0.84                |
| RL622-151K-RC | 150                   | ±10 % | 20       | 796 KHz        | 796 KHz  | 3.2            | 0.37                  | 0.75                |
| RL622-181K-RC | 180                   | ±10 % | 20       | 796 KHz        | 796 KHz  | 2.8            | 0.58                  | 0.69                |
| RL622-221K-RC | 220                   | ±10 % | 20       | 796 KHz        | 796 KHz  | 2.7            | 0.65                  | 0.64                |
| RL622-271K-RC | 270                   | ±10 % | 20       | 796 KHz        | 796 KHz  | 2.4            | 0.75                  | 0.57                |
| RL622-331K-RC | 330                   | ±10 % | 20       | 796 KHz        | 796 KHz  | 2.3            | 0.85                  | 0.54                |
| RL622-391K-RC | 390                   | ±10 % | 20       | 796 KHz        | 796 KHz  | 2.1            | 1.0                   | 0.48                |
| RL622-471K-RC | 470                   | ±10 % | 20       | 796 KHz        | 796 KHz  | 1.9            | 1.1                   | 0.46                |
| RL622-561K-RC | 560                   | ±10 % | 20       | 796 KHz        | 796 KHz  | 1.8            | 1.4                   | 0.41                |
| RL622-681K-RC | 680                   | ±10 % | 20       | 796 KHz        | 796 KHz  | 1.6            | 1.6                   | 0.38                |
| RL622-821K-RC | 820                   | ±10 % | 20       | 796 KHz        | 796 KHz  | 1.5            | 1.8                   | 0.38                |
| RL622-102K-RC | 1000                  | ±10 % | 50       | 252 KHz        | 252 KHz  | 1.3            | 2.9                   | 0.29                |
| RL622-122K-RC | 1200                  | ±10 % | 50       | 252 KHz        | 252 KHz  | 1.1            | 4.0                   | 0.13                |
| RL622-152K-RC | 1500                  | ±10 % | 20       | 252 KHz        | 252 KHz  | 1.0            | 6.1                   | 0.08                |
| RL622-182K-RC | 1800                  | ±10 % | 20       | 252 KHz        | 252 KHz  | 1.0            | 6.4                   | 0.08                |
| RL622-222K-RC | 2200                  | ±10 % | 20       | 252 KHz        | 252 KHz  | 0.9            | 6.8                   | 0.08                |
| RL622-272K-RC | 2700                  | ±10 % | 20       | 252 KHz        | 252 KHz  | 0.9            | 7.7                   | 0.08                |
| RL622-332K-RC | 3300                  | ±10 % | 20       | 252 KHz        | 252 KHz  | 0.7            | 9.0                   | 0.08                |
| RL622-392K-RC | 3900                  | ±10 % | 20       | 252 KHz        | 252 KHz  | 0.6            | 14                    | 0.08                |
| RL622-472K-RC | 4700                  | ±10 % | 20       | 252 KHz        | 252 KHz  | 0.5            | 16                    | 0.05                |
| RL622-562K-RC | 5600                  | ±10 % | 20       | 252 KHz        | 252 KHz  | 0.4            | 18                    | 0.05                |
| RL622-682K-RC | 6800                  | ±10 % | 20       | 252 KHz        | 252 KHz  | 0.4            | 19                    | 0.05                |
| RL622-822K-RC | 8200                  | ±10 % | 20       | 252 KHz        | 252 KHz  | 0.3            | 21                    | 0.05                |
| RL622-103K-RC | 10,000                | ±10 % | 40       | 79.6 KHz       | 79.6 KHz | 0.3            | 25                    | 0.05                |
| RL622-123K-RC | 12,000                | ±10 % | 40       | 79.6 KHz       | 79.6 KHz | 0.3            | 33                    | 0.04                |
| RL622-153K-RC | 15,000                | ±10 % | 40       | 79.6 KHz       | 79.6 KHz | 0.2            | 37                    | 0.04                |
| RL622-183K-RC | 18,000                | ±10 % | 30       | 79.6 KHz       | 79.6 KHz | 0.2            | 40                    | 0.04                |
| RL622-223K-RC | 22,000                | ±10 % | 30       | 79.6 KHz       | 79.6 KHz | 0.1            | 56                    | 0.03                |
| RL622-273K-RC | 27,000                | ±10 % | 30       | 79.6 KHz       | 79.6 KHz | 0.1            | 62                    | 0.03                |

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

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications

## 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

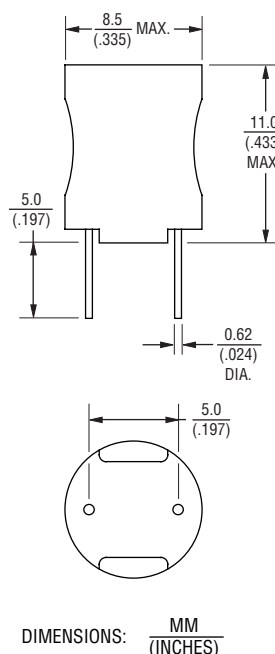
## Marking

..... Value code on side of inductor

## Packaging

Standard..... 100 pcs. per bag

## Product Dimensions



## Electrical Schematic



# RL622 Series - Radial Lead RF Choke

**BOURNS®**

## Electrical Specifications (@ 25 °C) - Continued

| Part Number   | Inductance ( $\mu$ H) | Tol.       | Q (Min.) | Test Frequency |          | SRF (MHz) Typ. | DCR ( $\Omega$ ) Max. | I dc (A) |
|---------------|-----------------------|------------|----------|----------------|----------|----------------|-----------------------|----------|
|               |                       |            |          | L              | Q        |                |                       |          |
| RL622-333K-RC | 33,000                | $\pm 10\%$ | 30       | 79.6 KHz       | 79.6 KHz | 0.1            | 70                    | 0.03     |
| RL622-393K-RC | 39,000                | $\pm 10\%$ | 30       | 79.6 KHz       | 79.6 KHz | 0.1            | 80                    | 0.03     |
| RL622-473K-RC | 47,000                | $\pm 10\%$ | 20       | 79.6 KHz       | 79.6 KHz | 0.1            | 99                    | 0.03     |
| RL622-563K-RC | 56,000                | $\pm 10\%$ | 20       | 79.6 KHz       | 79.6 KHz | 0.1            | 135                   | 0.02     |
| RL622-683K-RC | 68,000                | $\pm 10\%$ | 20       | 79.6 KHz       | 79.6 KHz | 0.1            | 150                   | 0.02     |
| RL622-823K-RC | 82,000                | $\pm 10\%$ | 20       | 79.6 KHz       | 79.6 KHz | 0.1            | 212                   | 0.02     |
| RL622-104K-RC | 100,000               | $\pm 10\%$ | 20       | 25.2 KHz       | 25.2 KHz | 0.1            | 235                   | 0.02     |

## How To Order

**RL622 - 102K - RC**

Model \_\_\_\_\_

Value/Tolerance Code (see table) \_\_\_\_\_

Compliance Code \_\_\_\_\_  
RC = RoHS Compliant

Example:  
RL622-102K-RC = 1000  $\mu$ H,  $\pm 10\%$