



BOURNS®

Features

- Formerly *JW.Miller* model
- Current rating up to 10 A
- Inductance range: 1 μ H to 100,000 μ 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 (μ H) | Tol. | Q (Min.) | Test Frequency | | SRF (MHz) Typ. | DCR (Ω) Max. | I dc (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 |

~ Continued on page 2 ~

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex. 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

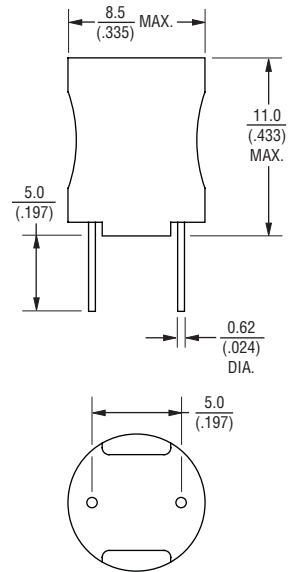
Marking

..... Value code on side of inductor

Packaging

Standard..... 100 pcs. per bag

Product Dimensions



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

Electrical Schematic



RL622 Series - Radial Lead RF Choke

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Electrical Specifications (@ 25 °C) - Continued

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

REV. 08/10

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Customers should verify actual device performance in their specific applications.