



Features

- Formerly J.W. Miller® model
- Current rating up to 3.71 A
- Inductance range: 1 μ H to 1000 μ H
- RoHS compliant*

Applications

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

RL822 Series - Radial Lead RF Choke

Electrical Specifications (@ 25 °C)

| Part Number | Inductance (μ H) | Tol. | Q | Test Frequency | | SRF (MHz) Min. | DCR (Ω) Max. | I dc (A) |
|---------------|-----------------------|------------|----|----------------|----------|----------------|-----------------------|----------|
| | | | | L | Q | | | |
| RL822-1R0K-RC | 1.0 | $\pm 10\%$ | 20 | 1.0 KHz | 7.96 MHz | 150 | 0.013 | 3.71 |
| RL822-1R5K-RC | 1.5 | $\pm 10\%$ | 20 | 1.0 KHz | 7.96 MHz | 130 | 0.016 | 3.32 |
| RL822-2R2K-RC | 2.2 | $\pm 10\%$ | 20 | 1.0 KHz | 7.96 MHz | 100 | 0.021 | 3.15 |
| RL822-3R3K-RC | 3.3 | $\pm 10\%$ | 20 | 1.0 KHz | 7.96 MHz | 79 | 0.025 | 2.66 |
| RL822-4R7K-RC | 4.7 | $\pm 10\%$ | 20 | 1.0 KHz | 7.96 MHz | 51 | 0.030 | 2.27 |
| RL822-6R8K-RC | 6.8 | $\pm 10\%$ | 20 | 1.0 KHz | 7.96 MHz | 29 | 0.035 | 2.10 |
| RL822-100K-RC | 10 | $\pm 10\%$ | 50 | 1.0 KHz | 2.52 MHz | 14 | 0.045 | 1.96 |
| RL822-120K-RC | 12 | $\pm 10\%$ | 50 | 1.0 KHz | 2.52 MHz | 13 | 0.050 | 1.82 |
| RL822-150K-RC | 15 | $\pm 10\%$ | 40 | 1.0 KHz | 2.52 MHz | 12 | 0.058 | 1.75 |
| RL822-180K-RC | 18 | $\pm 10\%$ | 40 | 1.0 KHz | 2.52 MHz | 11 | 0.061 | 1.54 |
| RL822-220K-RC | 22 | $\pm 10\%$ | 40 | 1.0 KHz | 2.52 MHz | 9.2 | 0.070 | 1.29 |
| RL822-270K-RC | 27 | $\pm 10\%$ | 30 | 1.0 KHz | 2.52 MHz | 8.5 | 0.080 | 1.22 |
| RL822-330K-RC | 33 | $\pm 10\%$ | 30 | 1.0 KHz | 2.52 MHz | 7.8 | 0.090 | 1.17 |
| RL822-390K-RC | 39 | $\pm 10\%$ | 30 | 1.0 KHz | 2.52 MHz | 6.9 | 0.10 | 1.14 |
| RL822-470K-RC | 47 | $\pm 10\%$ | 30 | 1.0 KHz | 2.52 MHz | 6.5 | 0.17 | 0.79 |
| RL822-560K-RC | 56 | $\pm 10\%$ | 30 | 1.0 KHz | 2.52 MHz | 5.4 | 0.20 | 0.76 |
| RL822-680K-RC | 68 | $\pm 10\%$ | 30 | 1.0 KHz | 2.52 MHz | 4.9 | 0.22 | 0.70 |
| RL822-820K-RC | 82 | $\pm 10\%$ | 30 | 1.0 KHz | 2.52 MHz | 4.1 | 0.25 | 0.67 |
| RL822-101K-RC | 100 | $\pm 10\%$ | 20 | 1.0 KHz | 796 KHz | 3.7 | 0.28 | 0.58 |
| RL822-121K-RC | 120 | $\pm 10\%$ | 20 | 1.0 KHz | 796 KHz | 3.4 | 0.32 | 0.56 |
| RL822-151K-RC | 150 | $\pm 10\%$ | 20 | 1.0 KHz | 796 KHz | 3.2 | 0.54 | 0.42 |
| RL822-181K-RC | 180 | $\pm 10\%$ | 20 | 1.0 KHz | 796 KHz | 2.8 | 0.60 | 0.40 |
| RL822-221K-RC | 220 | $\pm 10\%$ | 20 | 1.0 KHz | 796 KHz | 2.7 | 0.68 | 0.38 |
| RL822-271K-RC | 270 | $\pm 10\%$ | 20 | 1.0 KHz | 796 KHz | 2.4 | 0.80 | 0.35 |
| RL822-331K-RC | 330 | $\pm 10\%$ | 20 | 1.0 KHz | 796 KHz | 2.3 | 0.90 | 0.33 |
| RL822-391K-RC | 390 | $\pm 10\%$ | 20 | 1.0 KHz | 796 KHz | 2.1 | 1.20 | 0.28 |
| RL822-471K-RC | 470 | $\pm 10\%$ | 20 | 1.0 KHz | 796 KHz | 1.9 | 1.37 | 0.25 |
| RL822-561K-RC | 560 | $\pm 10\%$ | 20 | 1.0 KHz | 796 KHz | 1.8 | 1.53 | 0.23 |
| RL822-681K-RC | 680 | $\pm 10\%$ | 20 | 1.0 KHz | 796 KHz | 1.6 | 2.00 | 0.21 |
| RL822-821K-RC | 820 | $\pm 10\%$ | 20 | 1.0 KHz | 796 KHz | 1.5 | 2.70 | 0.18 |
| RL822-102K-RC | 1000 | $\pm 10\%$ | 50 | 1.0 KHz | 252 KHz | 1.3 | 2.96 | 0.16 |

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

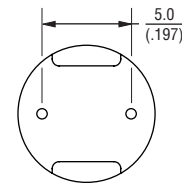
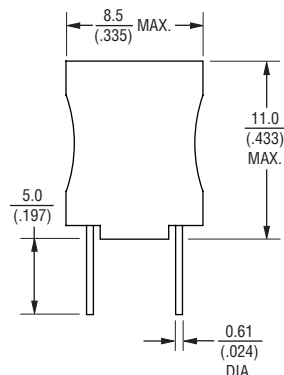
Marking

..... Value code on side of inductor

Packaging

Standard..... 100 pcs. per bag

Product Dimensions



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

How To Order

RL822 - 102K - RC

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

Example:

RL822-102K-RC = 1000 μ H, $\pm 10\%$

Electrical Schematic

