

Features

- Four types available
- High rated current for high current circuits
- Available in E12 series
- RoHS compliant*

Applications

- Power supplies
- DC/DC converters
- General use

RLB Series Radial Inductors

General Specifications

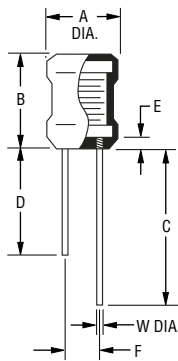
| | |
|-----------------------------|-----------------------------|
| Temperature Rise | 20 °C max. at rated current |
| Operating Temperature | -20 °C to +80 °C |
| Storage Temperature | -25 °C to +85 °C |

Materials

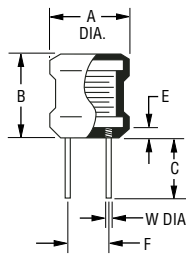
| | |
|---------------------|-------------------------------|
| Core Material | Ferrite DR core |
| Wire | Enameled copper wire |
| Terminal | Cu/Sn |
| Tube | Shrinkable tube 125 °C, 600 V |

Product Dimensions

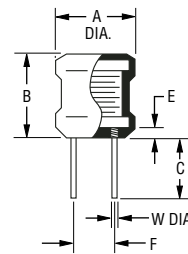
RLB0608, RLB0812, RLB1014,
RLB0712, RLB0914 Series



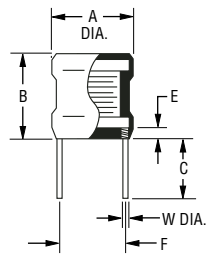
RLB0912 Series



RLB1314-680K
thru RLB1314-153K



RLB1314-3R3M
thru RLB1314-470K



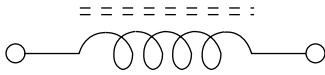
| Series | A | B | C | D | E | F | W (DIA.) | Inductance Range |
|---------|--|---|---|--|------------------------------|---------------------------------------|-----------------------|----------------------------|
| RLB0608 | $\frac{5.0 \pm 0.5}{(.197 \pm .020)}$ | $\frac{6.5 + 1.0 / - 0.5}{(.256 + .039 / -.020)}$ | $\frac{28.0 \pm 5.0}{(1.102 \pm .197)}$ | $\frac{20.0 \pm 5.0}{(.787 \pm .197)}$ | $\frac{2.5 + 0}{(.098 + 0)}$ | $\frac{2.0 \pm 0.5}{(.079 \pm .020)}$ | $\frac{0.50}{(.020)}$ | 1.0 μ H — 1000 μ H |
| RLB0812 | $\frac{6.7 \pm 0.5}{(.264 \pm .020)}$ | $\frac{10.0 \pm 1.0}{(.394 \pm .039)}$ | $\frac{25.0 \pm 5.0}{(.984 \pm .197)}$ | $\frac{18.0 \pm 5.0}{(.709 \pm .197)}$ | $\frac{2.5 + 0}{(.098 + 0)}$ | $\frac{3.0 \pm 0.5}{(.118 \pm .020)}$ | $\frac{0.65}{(.026)}$ | 47 μ H — 47 mH |
| RLB1014 | $\frac{8.7 \pm 0.5}{(.343 \pm .020)}$ | $\frac{12.0 \pm 1.0}{(.472 \pm .039)}$ | $\frac{25.0 \pm 5.0}{(.984 \pm .197)}$ | $\frac{18.0 \pm 5.0}{(.709 \pm .197)}$ | $\frac{2.5 + 0}{(.098 + 0)}$ | $\frac{5.0 \pm 0.8}{(.197 \pm .031)}$ | $\frac{0.65}{(.026)}$ | 100 μ H — 82 mH |
| RLB0712 | $\frac{6.7 \pm 0.5}{(.264 \pm .020)}$ | $\frac{10.0 \pm 1.0}{(.394 \pm .039)}$ | $\frac{25.0 \pm 5.0}{(.984 \pm .197)}$ | $\frac{18.0 \pm 5.0}{(.709 \pm .197)}$ | $\frac{2.5 + 0}{(.098 + 0)}$ | $\frac{3.0 \pm 0.5}{(.118 \pm .020)}$ | $\frac{0.65}{(.026)}$ | 10 μ H — 560 μ H |
| RLB0912 | $\frac{8.7 \pm 0.5}{(.343 \pm .020)}$ | $\frac{10.0 \pm 1.0}{(.394 \pm .039)}$ | $\frac{5.0 \pm 1.0}{(.197 \pm .039)}$ | — | $\frac{2.5 + 0}{(.098 + 0)}$ | $\frac{5.0 \pm 0.8}{(.197 \pm .031)}$ | $\frac{0.65}{(.026)}$ | 1.5 μ H — 1000 μ H |
| RLB0914 | $\frac{8.7 \pm 0.5}{(.343 \pm .020)}$ | $\frac{12.0 \pm 1.0}{(.472 \pm .039)}$ | $\frac{25.0 \pm 5.0}{(.984 \pm .197)}$ | $\frac{18.0 \pm 5.0}{(.709 \pm .197)}$ | $\frac{2.5 + 0}{(.098 + 0)}$ | $\frac{5.0 \pm 0.8}{(.197 \pm .031)}$ | $\frac{0.65}{(.026)}$ | 3.3 μ H — 1000 μ H |
| RLB1314 | $\frac{11.7 \pm 0.8}{(.461 \pm .031)}$ | $\frac{12.0 \pm 1.0}{(.472 \pm .039)}$ | $\frac{15.0 \pm 5.0}{(.591 \pm .197)}$ | — | $\frac{2.5 + 0}{(.098 + 0)}$ | $\frac{9.0 \pm 1.0}{(.354 \pm .039)}$ | Per Specs. | 3.3 μ H — 47 μ H |
| | $\frac{11.7 \pm 0.8}{(.461 \pm .031)}$ | $\frac{12.0 \pm 1.0}{(.472 \pm .039)}$ | $\frac{15.0 \pm 5.0}{(.591 \pm .197)}$ | — | $\frac{2.5 + 0}{(.098 + 0)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .031)}$ | $\frac{0.80}{(.031)}$ | 68 μ H — 15 mH |

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

*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.

RLB Series Radial Inductors

Electrical Schematic



Typical Part Marking



- Inductance Code:
- First two digits are significant
 - Third digit represents the number of zeroes to follow
- = Start

RLB0608 Series Electrical Characteristics

| BOURNS Part No. | Inductance (μ H) | Q ref. | Test freq. (MHz) | | SRF (MHz) min. | RDC (ohms) max. | IDC (mA) max. |
|-----------------|--------------------------|-----------|------------------|--|-------------------|--------------------|------------------|
| | | | L, Q | | | | |
| RLB0608-1R0ML | 1.0 \pm 20 % | 60 | 7.96 | | 105.0 | 0.10 | 1030 |
| RLB0608-1R2ML | 1.2 \pm 20 % | 60 | 7.96 | | 90.0 | 0.15 | 980 |
| RLB0608-1R5ML | 1.5 \pm 20 % | 60 | 7.96 | | 75.0 | 0.20 | 920 |
| RLB0608-1R8ML | 1.8 \pm 20 % | 60 | 7.96 | | 70.0 | 0.22 | 880 |
| RLB0608-2R2ML | 2.2 \pm 20 % | 60 | 7.96 | | 65.0 | 0.24 | 830 |
| RLB0608-2R7ML | 2.7 \pm 20 % | 60 | 7.96 | | 60.0 | 0.27 | 790 |
| RLB0608-3R3ML | 3.3 \pm 20 % | 60 | 7.96 | | 50.0 | 0.30 | 750 |
| RLB0608-3R9ML | 3.9 \pm 20 % | 60 | 7.96 | | 45.0 | 0.30 | 720 |
| RLB0608-4R7ML | 4.7 \pm 20 % | 60 | 7.96 | | 40.0 | 0.35 | 670 |
| RLB0608-5R6KL | 5.6 \pm 10 % | 60 | 7.96 | | 35.0 | 0.35 | 640 |
| RLB0608-6R8KL | 6.8 \pm 10 % | 60 | 7.96 | | 30.0 | 0.40 | 620 |
| RLB0608-8R2KL | 8.2 \pm 10 % | 60 | 7.96 | | 25.0 | 0.40 | 590 |
| RLB0608-100KL | 10.0 \pm 10 % | 60 | 2.52 | | 20.0 | 0.45 | 550 |
| RLB0608-120KL | 12.0 \pm 10 % | 60 | 2.52 | | 15.0 | 0.50 | 530 |
| RLB0608-150KL | 15.0 \pm 10 % | 60 | 2.52 | | 13.0 | 0.55 | 500 |
| RLB0608-180KL | 18.0 \pm 10 % | 60 | 2.52 | | 11.0 | 0.60 | 480 |
| RLB0608-220KL | 22.0 \pm 10 % | 60 | 2.52 | | 10.0 | 0.65 | 460 |
| RLB0608-270KL | 27.0 \pm 10 % | 50 | 2.52 | | 9.0 | 0.75 | 430 |
| RLB0608-330KL | 33.0 \pm 10 % | 50 | 2.52 | | 8.0 | 0.85 | 410 |
| RLB0608-390KL | 39.0 \pm 10 % | 50 | 2.52 | | 7.5 | 0.90 | 390 |
| RLB0608-470KL | 47.0 \pm 10 % | 50 | 2.52 | | 7.0 | 1.00 | 370 |
| RLB0608-560KL | 56.0 \pm 10 % | 50 | 2.52 | | 6.5 | 1.20 | 350 |
| RLB0608-680KL | 68.0 \pm 10 % | 50 | 2.52 | | 6.0 | 1.30 | 340 |
| RLB0608-820KL | 82.0 \pm 10 % | 50 | 2.52 | | 5.5 | 1.50 | 320 |
| RLB0608-101KL | 100.0 \pm 10 % | 50 | 0.796 | | 5.0 | 1.70 | 305 |
| RLB0608-121KL | 120.0 \pm 10 % | 50 | 0.796 | | 4.8 | 1.90 | 290 |
| RLB0608-151KL | 150.0 \pm 10 % | 50 | 0.796 | | 4.4 | 2.10 | 275 |
| RLB0608-181KL | 180.0 \pm 10 % | 50 | 0.796 | | 4.2 | 2.30 | 235 |
| RLB0608-221KL | 220.0 \pm 10 % | 45 | 0.796 | | 3.8 | 2.50 | 200 |
| RLB0608-271KL | 270.0 \pm 10 % | 45 | 0.796 | | 3.6 | 2.75 | 180 |
| RLB0608-331KL | 330.0 \pm 10 % | 45 | 0.796 | | 3.3 | 4.68 | 165 |
| RLB0608-391KL | 390.0 \pm 10 % | 45 | 0.796 | | 3.0 | 6.00 | 150 |
| RLB0608-471KL | 470.0 \pm 10 % | 55 | 0.796 | | 2.8 | 6.50 | 140 |
| RLB0608-561KL | 560.0 \pm 10 % | 55 | 0.796 | | 2.4 | 8.50 | 135 |
| RLB0608-681KL | 680.0 \pm 10 % | 55 | 0.796 | | 2.2 | 9.00 | 125 |
| RLB0608-821KL | 820.0 \pm 10 % | 55 | 0.796 | | 2.0 | 9.60 | 120 |
| RLB0608-102KL | 1000.0 \pm 10 % | 55 | 0.252 | | 1.8 | 11.50 | 100 |

Packaging: 800 pieces per bag

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

RLB Series Radial Inductors

RLB0812 Series Electrical Characteristics

| BOURNS Part No. | Inductance (μ H) | Q ref. | Test freq. (MHz) L, Q | SRF (MHz) min. | RDC (ohms) max. | IDC (mA) max. |
|-----------------|--------------------------|-----------|--------------------------|-------------------|--------------------|------------------|
| RLB0812-470KL | 47 \pm 10 % | 30 | 2.52 | 6.00 | 0.40 | 450 |
| RLB0812-560KL | 56 \pm 10 % | 30 | 2.52 | 5.50 | 0.45 | 400 |
| RLB0812-680KL | 68 \pm 10 % | 30 | 2.52 | 5.00 | 0.50 | 360 |
| RLB0812-820KL | 82 \pm 10 % | 30 | 2.52 | 4.50 | 0.50 | 340 |
| RLB0812-101KL | 100 \pm 10 % | 45 | 0.796 | 4.20 | 0.60 | 320 |
| RLB0812-121KL | 120 \pm 10 % | 45 | 0.796 | 3.60 | 0.70 | 300 |
| RLB0812-151KL | 150 \pm 10 % | 45 | 0.796 | 3.40 | 0.90 | 280 |
| RLB0812-181KL | 180 \pm 10 % | 45 | 0.796 | 3.20 | 1.00 | 260 |
| RLB0812-221KL | 220 \pm 10 % | 45 | 0.796 | 3.00 | 1.20 | 240 |
| RLB0812-271KL | 270 \pm 10 % | 45 | 0.796 | 2.80 | 1.40 | 220 |
| RLB0812-331KL | 330 \pm 10 % | 45 | 0.796 | 2.50 | 1.60 | 200 |
| RLB0812-391KL | 390 \pm 10 % | 45 | 0.796 | 2.30 | 1.80 | 180 |
| RLB0812-471KL | 470 \pm 10 % | 45 | 0.796 | 2.20 | 2.00 | 160 |
| RLB0812-561KL | 560 \pm 10 % | 45 | 0.796 | 2.00 | 2.50 | 150 |
| RLB0812-681KL | 680 \pm 10 % | 45 | 0.796 | 1.70 | 2.90 | 140 |
| RLB0812-821KL | 820 \pm 10 % | 45 | 0.796 | 1.50 | 3.10 | 130 |
| RLB0812-102KL | 1000 \pm 10 % | 45 | 0.252 | 1.40 | 3.90 | 120 |
| RLB0812-122KL | 1200 \pm 10 % | 60 | 0.252 | 1.10 | 4.40 | 110 |
| RLB0812-152KL | 1500 \pm 10 % | 60 | 0.252 | 0.90 | 6.00 | 100 |
| RLB0812-182KL | 1800 \pm 10 % | 60 | 0.252 | 0.80 | 7.00 | 90 |
| RLB0812-222KL | 2200 \pm 10 % | 60 | 0.252 | 0.75 | 8.00 | 80 |
| RLB0812-272KL | 2700 \pm 10 % | 60 | 0.252 | 0.70 | 9.00 | 70 |
| RLB0812-332KL | 3300 \pm 10 % | 60 | 0.252 | 0.60 | 12.00 | 60 |
| RLB0812-392KL | 3900 \pm 10 % | 60 | 0.252 | 0.55 | 14.00 | 55 |
| RLB0812-472KL | 4700 \pm 10 % | 60 | 0.252 | 0.50 | 16.00 | 50 |
| RLB0812-562KL | 5600 \pm 10 % | 60 | 0.252 | 0.48 | 18.00 | 45 |
| RLB0812-682KL | 6800 \pm 10 % | 60 | 0.252 | 0.44 | 24.00 | 40 |
| RLB0812-822KL | 8200 \pm 10 % | 60 | 0.252 | 0.40 | 30.00 | 36 |
| RLB0812-103KL | 10000 \pm 10 % | 60 | 0.0796 | 0.36 | 39.00 | 34 |
| RLB0812-123KL | 12000 \pm 10 % | 60 | 0.0796 | 0.32 | 46.00 | 32 |
| RLB0812-153KL | 15000 \pm 10 % | 60 | 0.0796 | 0.30 | 54.00 | 30 |
| RLB0812-183KL | 18000 \pm 10 % | 60 | 0.0796 | 0.28 | 76.00 | 27 |
| RLB0812-223KL | 22000 \pm 10 % | 60 | 0.0796 | 0.24 | 92.00 | 25 |
| RLB0812-273KL | 27000 \pm 10 % | 60 | 0.0796 | 0.20 | 102.00 | 22 |
| RLB0812-333KL | 33000 \pm 10 % | 60 | 0.0796 | 0.16 | 140.00 | 20 |
| RLB0812-393KL | 39000 \pm 10 % | 60 | 0.0796 | 0.13 | 150.00 | 18 |
| RLB0812-473KL | 47000 \pm 10 % | 60 | 0.0796 | 0.10 | 162.00 | 16 |

Packaging: 400 pieces per bag

RLB Series Radial Inductors

RLB1014 Series Electrical Characteristics

| BOURNS Part No. | Inductance (μ H) | Q ref. | Test freq. (KHz) L, Q | SRF (MHz) min. | RDC (ohms) max. | IDC (mA) max. |
|-----------------|--------------------------|-----------|--------------------------|-------------------|--------------------|------------------|
| RLB1014-101KL | 100 \pm 10 % | 45 | 796.0 | 3.20 | 0.85 | 350 |
| RLB1014-121KL | 120 \pm 10 % | 45 | 796.0 | 3.00 | 0.95 | 330 |
| RLB1014-151KL | 150 \pm 10 % | 45 | 796.0 | 2.80 | 1.05 | 310 |
| RLB1014-181KL | 180 \pm 10 % | 45 | 796.0 | 2.50 | 1.15 | 300 |
| RLB1014-221KL | 220 \pm 10 % | 40 | 796.0 | 2.10 | 1.30 | 280 |
| RLB1014-271KL | 270 \pm 10 % | 40 | 796.0 | 2.00 | 1.50 | 260 |
| RLB1014-331KL | 330 \pm 10 % | 40 | 796.0 | 1.95 | 1.70 | 240 |
| RLB1014-391KL | 390 \pm 10 % | 40 | 796.0 | 1.85 | 1.85 | 230 |
| RLB1014-471KL | 470 \pm 10 % | 35 | 796.0 | 1.55 | 2.30 | 210 |
| RLB1014-561KL | 560 \pm 10 % | 35 | 796.0 | 1.30 | 2.55 | 200 |
| RLB1014-681KL | 680 \pm 10 % | 35 | 796.0 | 1.15 | 2.85 | 190 |
| RLB1014-821KL | 820 \pm 10 % | 35 | 796.0 | 1.00 | 3.10 | 180 |
| RLB1014-102KL | 1000 \pm 10 % | 50 | 252.0 | 0.90 | 4.10 | 160 |
| RLB1014-122KL | 1200 \pm 10 % | 50 | 252.0 | 0.80 | 4.70 | 150 |
| RLB1014-152KL | 1500 \pm 10 % | 50 | 252.0 | 0.70 | 5.80 | 130 |
| RLB1014-182KL | 1800 \pm 10 % | 50 | 252.0 | 0.60 | 7.40 | 115 |
| RLB1014-222KL | 2200 \pm 10 % | 50 | 252.0 | 0.55 | 8.40 | 110 |
| RLB1014-272KL | 2700 \pm 10 % | 50 | 252.0 | 0.50 | 9.60 | 95 |
| RLB1014-332KL | 3300 \pm 10 % | 50 | 252.0 | 0.45 | 10.50 | 80 |
| RLB1014-392KL | 3900 \pm 10 % | 50 | 252.0 | 0.40 | 12.00 | 70 |
| RLB1014-472KL | 4700 \pm 10 % | 45 | 252.0 | 0.38 | 14.00 | 65 |
| RLB1014-562KL | 5600 \pm 10 % | 45 | 252.0 | 0.36 | 16.00 | 60 |
| RLB1014-682KL | 6800 \pm 10 % | 40 | 252.0 | 0.34 | 18.00 | 55 |
| RLB1014-822KL | 8200 \pm 10 % | 40 | 252.0 | 0.32 | 24.50 | 50 |
| RLB1014-103KL | 10000 \pm 10 % | 50 | 79.6 | 0.30 | 32.00 | 45 |
| RLB1014-123KL | 12000 \pm 10 % | 50 | 79.6 | 0.28 | 36.00 | 40 |
| RLB1014-153KL | 15000 \pm 10 % | 50 | 79.6 | 0.26 | 48.00 | 35 |
| RLB1014-183KL | 18000 \pm 10 % | 45 | 79.6 | 0.24 | 52.00 | 30 |
| RLB1014-223KL | 22000 \pm 10 % | 45 | 79.6 | 0.22 | 58.00 | 28 |
| RLB1014-273KL | 27000 \pm 10 % | 45 | 79.6 | 0.20 | 62.00 | 26 |
| RLB1014-333KL | 33000 \pm 10 % | 45 | 79.6 | 0.18 | 90.00 | 24 |
| RLB1014-393KL | 39000 \pm 10 % | 40 | 79.6 | 0.17 | 100.00 | 22 |
| RLB1014-473KL | 47000 \pm 10 % | 35 | 79.6 | 0.16 | 150.00 | 20 |
| RLB1014-563KL | 56000 \pm 10 % | 35 | 79.6 | 0.15 | 200.00 | 18 |
| RLB1014-683KL | 68000 \pm 10 % | 35 | 79.6 | 0.14 | 220.00 | 16 |
| RLB1014-823KL | 82000 \pm 10 % | 30 | 79.6 | 0.12 | 240.00 | 14 |

Packaging: 150 pieces per bag

RLB Series Radial Inductors

RLB0712 Series Electrical Characteristics

| BOURNS Part No. | Inductance (μ H) | Q ref. | Test freq. (Hz) | | SRF (MHz) min. | RDC (ohms) max. | IDC (mA) max. |
|-----------------|-----------------------|--------|-----------------|---------|----------------|-----------------|---------------|
| | | | L | Q | | | |
| RLB0712-100KL | 10 \pm 10 % | 20 | 1 k | 2.520 M | 16.0 | 0.07 | 1100 |
| RLB0712-120KL | 12 \pm 10 % | 20 | 1 k | 2.520 M | 12.0 | 0.08 | 1000 |
| RLB0712-150KL | 15 \pm 10 % | 20 | 1 k | 2.520 M | 10.0 | 0.09 | 900 |
| RLB0712-180KL | 18 \pm 10 % | 20 | 1 k | 2.520 M | 10.0 | 0.10 | 750 |
| RLB0712-220KL | 22 \pm 10 % | 20 | 1 k | 2.520 M | 9.0 | 0.12 | 700 |
| RLB0712-270KL | 27 \pm 10 % | 20 | 1 k | 2.520 M | 8.0 | 0.13 | 650 |
| RLB0712-330KL | 33 \pm 10 % | 20 | 1 k | 2.520 M | 7.0 | 0.15 | 600 |
| RLB0712-390KL | 39 \pm 10 % | 20 | 1 k | 2.520 M | 6.0 | 0.16 | 550 |
| RLB0712-470KL | 47 \pm 10 % | 20 | 1 k | 2.520 M | 6.0 | 0.18 | 450 |
| RLB0712-560KL | 56 \pm 10 % | 20 | 1 k | 2.520 M | 5.0 | 0.21 | 400 |
| RLB0712-680KL | 68 \pm 10 % | 20 | 1 k | 2.520 M | 5.0 | 0.24 | 360 |
| RLB0712-820KL | 82 \pm 10 % | 20 | 1 k | 2.520 M | 5.0 | 0.35 | 340 |
| RLB0712-101KL | 100 \pm 10 % | 20 | 1 k | 0.796 M | 4.0 | 0.40 | 320 |
| RLB0712-121KL | 120 \pm 10 % | 20 | 1 k | 0.796 M | 4.0 | 0.45 | 300 |
| RLB0712-151KL | 150 \pm 10 % | 20 | 1 k | 0.796 M | 3.5 | 0.50 | 280 |
| RLB0712-181KL | 180 \pm 10 % | 20 | 1 k | 0.796 M | 3.0 | 0.75 | 260 |
| RLB0712-221KL | 220 \pm 10 % | 20 | 1 k | 0.796 M | 3.0 | 0.90 | 240 |
| RLB0712-271KL | 270 \pm 10 % | 20 | 1 k | 0.796 M | 2.5 | 1.00 | 220 |
| RLB0712-331KL | 330 \pm 10 % | 20 | 1 k | 0.796 M | 2.5 | 1.10 | 200 |
| RLB0712-391KL | 390 \pm 10 % | 20 | 1 k | 0.796 M | 2.0 | 1.20 | 180 |
| RLB0712-471KL | 470 \pm 10 % | 20 | 1 k | 0.796 M | 2.0 | 1.50 | 160 |
| RLB0712-561KL | 560 \pm 10 % | 20 | 1 k | 0.796 M | 2.0 | 1.80 | 150 |

Packaging: 400 pieces per bag

RLB0912 Series Electrical Characteristics

| BOURNS Part No. | Inductance (μ H) | Q ref. | Test freq. (Hz) | | SRF (MHz) min. | RDC (ohms) max. | IDC (A) max. |
|-----------------|-----------------------|--------|-----------------|---------|----------------|-----------------|--------------|
| | | | L | Q | | | |
| RLB0912-1R5ML | 1.5 \pm 20 % | 30 | 1 k | 7.960 M | 78.0 | 0.008 | 5.4 |
| RLB0912-2R2ML | 2.2 \pm 20 % | 30 | 1 k | 7.960 M | 63.0 | 0.010 | 4.5 |
| RLB0912-3R3ML | 3.3 \pm 20 % | 30 | 1 k | 7.960 M | 50.0 | 0.018 | 3.6 |
| RLB0912-4R7ML | 4.7 \pm 20 % | 30 | 1 k | 7.960 M | 41.0 | 0.022 | 3.1 |
| RLB0912-6R8ML | 6.8 \pm 20 % | 30 | 1 k | 7.960 M | 33.0 | 0.028 | 2.5 |
| RLB0912-100KL | 10.0 \pm 10 % | 60 | 1 k | 2.520 M | 27.0 | 0.043 | 2.1 |
| RLB0912-150KL | 15.0 \pm 10 % | 50 | 1 k | 2.520 M | 21.0 | 0.056 | 1.7 |
| RLB0912-220KL | 22.0 \pm 10 % | 50 | 1 k | 2.520 M | 17.0 | 0.086 | 1.4 |
| RLB0912-330KL | 33.0 \pm 10 % | 45 | 1 k | 2.520 M | 13.0 | 0.140 | 1.1 |
| RLB0912-470KL | 47.0 \pm 10 % | 40 | 1 k | 2.520 M | 11.0 | 0.170 | 0.96 |
| RLB0912-680KL | 68.0 \pm 10 % | 35 | 1 k | 2.520 M | 9.0 | 0.280 | 0.79 |
| RLB0912-101KL | 100.0 \pm 10 % | 55 | 1 k | 0.796 M | 7.2 | 0.330 | 0.66 |
| RLB0912-151KL | 150.0 \pm 10 % | 40 | 1 k | 0.796 M | 5.7 | 0.560 | 0.53 |
| RLB0912-221KL | 220.0 \pm 10 % | 30 | 1 k | 0.796 M | 4.5 | 0.720 | 0.44 |
| RLB0912-331KL | 330.0 \pm 10 % | 25 | 1 k | 0.796 M | 3.6 | 1.100 | 0.36 |
| RLB0912-471KL | 470.0 \pm 10 % | 25 | 1 k | 0.796 M | 2.9 | 1.700 | 0.30 |
| RLB0912-681KL | 680.0 \pm 10 % | 25 | 1 k | 0.796 M | 2.3 | 2.300 | 0.25 |
| RLB0912-102KL | 1000.0 \pm 10 % | 55 | 1 k | 0.252 M | 1.9 | 4.300 | 0.20 |

Packaging: 300 pieces per bag; available in ammo-pak (use Model RLH0912) - 1000 pieces per box

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

RLB Series Radial Inductors

RLB0914 Series Electrical Characteristics

| BOURNS Part No. | Inductance (μ H) | Q ref. | Test freq. (MHz) L, Q | SRF (MHz) min. | RDC (ohms) max. | IDC (A) max. |
|-----------------|--------------------------|-----------|--------------------------|-------------------|--------------------|-----------------|
| RLB0914-3R3ML | 3.3 \pm 20 % | 20 | 7.960 | 70.0 | 0.027 | 3.60 |
| RLB0914-4R7ML | 4.7 \pm 20 % | 20 | 7.960 | 50.0 | 0.033 | 3.20 |
| RLB0914-6R8ML | 6.8 \pm 20 % | 20 | 7.960 | 30.0 | 0.039 | 3.00 |
| RLB0914-100KL | 10.0 \pm 10 % | 50 | 2.520 | 20.0 | 0.048 | 2.70 |
| RLB0914-120KL | 12.0 \pm 10 % | 50 | 2.520 | 15.0 | 0.055 | 2.50 |
| RLB0914-150KL | 15.0 \pm 10 % | 50 | 2.520 | 10.0 | 0.060 | 2.40 |
| RLB0914-180KL | 18.0 \pm 10 % | 40 | 2.520 | 9.5 | 0.065 | 2.30 |
| RLB0914-220KL | 22.0 \pm 10 % | 40 | 2.520 | 9.0 | 0.090 | 1.90 |
| RLB0914-270KL | 27.0 \pm 10 % | 40 | 2.520 | 8.5 | 0.110 | 1.80 |
| RLB0914-330KL | 33.0 \pm 10 % | 40 | 2.520 | 8.0 | 0.120 | 1.70 |
| RLB0914-390KL | 39.0 \pm 10 % | 30 | 2.520 | 7.0 | 0.130 | 1.60 |
| RLB0914-470KL | 47.0 \pm 10 % | 30 | 2.520 | 6.0 | 0.140 | 1.50 |
| RLB0914-560KL | 56.0 \pm 10 % | 30 | 2.520 | 5.0 | 0.200 | 1.30 |
| RLB0914-680KL | 68.0 \pm 10 % | 30 | 2.520 | 4.5 | 0.210 | 1.20 |
| RLB0914-820KL | 82.0 \pm 10 % | 30 | 2.520 | 4.0 | 0.230 | 1.10 |
| RLB0914-101KL | 100.0 \pm 10 % | 30 | 0.796 | 3.5 | 0.280 | 1.00 |
| RLB0914-121KL | 120.0 \pm 10 % | 30 | 0.796 | 3.0 | 0.320 | 0.90 |
| RLB0914-151KL | 150.0 \pm 10 % | 30 | 0.796 | 2.8 | 0.370 | 0.80 |
| RLB0914-181KL | 180.0 \pm 10 % | 30 | 0.796 | 2.6 | 0.540 | 0.75 |
| RLB0914-221KL | 220.0 \pm 10 % | 20 | 0.796 | 2.4 | 0.600 | 0.70 |
| RLB0914-271KL | 270.0 \pm 10 % | 20 | 0.796 | 2.2 | 0.680 | 0.65 |
| RLB0914-331KL | 330.0 \pm 10 % | 20 | 0.796 | 2.0 | 0.760 | 0.60 |
| RLB0914-391KL | 390.0 \pm 10 % | 20 | 0.796 | 1.9 | 0.850 | 0.55 |
| RLB0914-471KL | 470.0 \pm 10 % | 20 | 0.796 | 1.8 | 1.300 | 0.50 |
| RLB0914-561KL | 560.0 \pm 10 % | 20 | 0.796 | 1.7 | 1.400 | 0.45 |
| RLB0914-681KL | 680.0 \pm 10 % | 20 | 0.796 | 1.6 | 1.600 | 0.40 |
| RLB0914-821KL | 820.0 \pm 10 % | 20 | 0.796 | 1.5 | 1.800 | 0.35 |
| RLB0914-102KL | 1000.0 \pm 10 % | 40 | 0.252 | 1.3 | 2.100 | 0.30 |

Packaging: 200 pieces per bag

RLB Series Radial Inductors

RLB1314 Series Electrical Characteristics

| BOURNS Part No. | Inductance (μ H) | Q Ref. | Test freq. (Hz) | | SRF (MHz) Typ. | RDC (ohms) max. | IDC (A) max. | W Dia. | F |
|-----------------|--------------------------|-----------|-----------------|--------|-------------------|--------------------|-----------------|--|---------------------------------------|
| | | | L | Q | | | | | |
| RLB1314-3R3ML | 3.3 \pm 20 % | 90 | 1 k | 7.96 M | 59.00 | 0.008 | 5.600 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{9.0 \pm 1.0}{(.354 \pm .04)}$ |
| RLB1314-4R7ML | 4.7 \pm 20 % | 100 | 1 k | 7.96 M | 45.00 | 0.009 | 4.700 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{9.0 \pm 1.0}{(.354 \pm .04)}$ |
| RLB1314-6R8ML | 6.8 \pm 20 % | 80 | 1 k | 7.96 M | 34.00 | 0.012 | 3.900 | $\frac{0.7 \pm 0.05}{(.028 \pm .002)}$ | $\frac{9.0 \pm 1.0}{(.354 \pm .04)}$ |
| RLB1314-100ML | 10.0 \pm 20 % | 140 | 1 k | 2.52 M | 26.00 | 0.015 | 3.200 | $\frac{0.7 \pm 0.05}{(.028 \pm .002)}$ | $\frac{9.0 \pm 1.0}{(.354 \pm .04)}$ |
| RLB1314-150ML | 15.0 \pm 20 % | 120 | 1 k | 2.52 M | 19.00 | 0.019 | 2.600 | $\frac{0.7 \pm 0.05}{(.028 \pm .002)}$ | $\frac{9.0 \pm 1.0}{(.354 \pm .04)}$ |
| RLB1314- 220KL | 22.0 \pm 10 % | 110 | 1 k | 2.52 M | 14.00 | 0.026 | 2.200 | $\frac{0.7 \pm 0.05}{(.028 \pm .002)}$ | $\frac{9.0 \pm 1.0}{(.354 \pm .04)}$ |
| RLB1314-330KL | 33.0 \pm 10 % | 100 | 1 k | 2.52 M | 10.00 | 0.045 | 1.800 | $\frac{0.6 \pm 0.05}{(.024 \pm .002)}$ | $\frac{9.0 \pm 1.0}{(.354 \pm .04)}$ |
| RLB1314-470KL | 47.0 \pm 10 % | 90 | 1 k | 2.52 M | 8.30 | 0.056 | 1.500 | $\frac{0.6 \pm 0.05}{(.024 \pm .002)}$ | $\frac{9.0 \pm 1.0}{(.354 \pm .04)}$ |
| RLB1314-680KL | 68.0 \pm 10 % | 80 | 1 k | 2.52 M | 6.70 | 0.092 | 1.200 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-101KL | 100.0 \pm 10 % | 70 | 1 k | 796 K | 5.40 | 0.120 | 1.000 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-151KL | 150.0 \pm 10 % | 70 | 1 k | 796 K | 4.30 | 0.200 | 0.820 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-221KL | 220.0 \pm 10 % | 40 | 1 k | 796 K | 3.40 | 0.250 | 0.680 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-331KL | 330.0 \pm 10 % | 40 | 1 k | 796 K | 2.70 | 0.420 | 0.550 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-471KL | 470.0 \pm 10 % | 30 | 1 k | 796 K | 2.30 | 0.510 | 0.460 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-681KL | 680.0 \pm 10 % | 30 | 1 k | 796 K | 1.90 | 0.790 | 0.380 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-102KL | 1000.0 \pm 10 % | 40 | 1 k | 252 K | 1.60 | 1.300 | 0.310 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-152KL | 1500.0 \pm 10 % | 30 | 1 k | 252 K | 1.30 | 1.700 | 0.250 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-222KL | 2200.0 \pm 10 % | 60 | 1 k | 252 K | 1.10 | 2.900 | 0.210 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-332KL | 3300.0 \pm 10 % | 50 | 1 k | 252 K | 0.90 | 3.700 | 0.170 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-472KL | 4700.0 \pm 10 % | 50 | 1 k | 252 K | 0.76 | 5.600 | 0.140 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-682KL | 6800.0 \pm 10 % | 60 | 1 k | 252 K | 0.65 | 9.400 | 0.120 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-103KL | 10000.0 \pm 10 % | 80 | 1 k | 79.6 K | 0.53 | 12.000 | 0.100 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |
| RLB1314-153KL | 15000.0 \pm 10 % | 70 | 1 k | 79.6 K | 0.41 | 15.000 | 0.082 | $\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ | $\frac{7.0 \pm 0.8}{(.276 \pm .032)}$ |

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

Packaging: RLB1314 (3R3M to 470K) = 150 pieces per bag; RLB1314 (680K to 153K) = 130 pieces per bag.

REV. 05/05

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.