



**THE DATASHEET OF  
RL622-3R3K-RC**





## Features

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



This series is currently available but not recommended for new designs. The Model RLB0913 Series is the recommended alternative.

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

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## 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

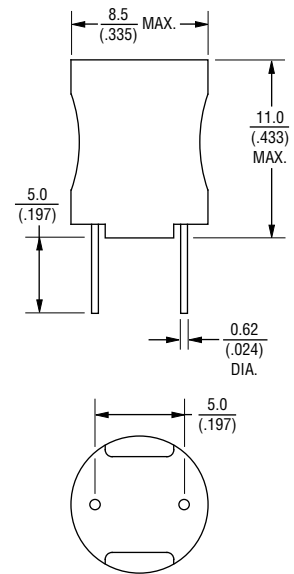
## Marking

..... Value code on side of inductor

## Packaging

Standard..... 100 pcs. per bag

## Product Dimensions



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

## Electrical Schematic



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*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. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf).

## Applications

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

# 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 %*

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REV. 04/17

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