



### Features

- Formerly J. W. Miller® model
- Current rating up to 5.3 A
- Inductance range: 10  $\mu$ H to 1000  $\mu$ H
- RoHS compliant\*

### Applications

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

## RL110 Series - Radial Lead RF Choke

### Electrical Specifications (@ 25 °C)

Part Number	Inductance ( $\mu$ H)	Tol.	Q (Ref.)	Test Frequency		SRF (MHz) Typ.	DCR ( $\Omega$ ) Max.	I dc (A)
				L	Q			
RL110-100M-RC	10	$\pm 20\%$	20	2.52 MHz	2.52 MHz	14	0.022	5.3
RL110-120M-RC	12	$\pm 20\%$	20	2.52 MHz	2.52 MHz	11	0.023	4.9
RL110-150M-RC	15	$\pm 20\%$	20	2.52 MHz	2.52 MHz	7.7	0.026	4.4
RL110-180M-RC	18	$\pm 20\%$	20	2.52 MHz	2.52 MHz	7.1	0.033	4.0
RL110-220M-RC	22	$\pm 20\%$	20	2.52 MHz	2.52 MHz	6.8	0.037	3.6
RL110-270M-RC	27	$\pm 20\%$	20	2.52 MHz	2.52 MHz	6.1	0.048	3.3
RL110-330K-RC	33	$\pm 10\%$	20	2.52 MHz	2.52 MHz	6.0	0.055	2.9
RL110-390K-RC	39	$\pm 10\%$	25	2.52 MHz	2.52 MHz	8.6	0.073	2.7
RL110-470K-RC	47	$\pm 10\%$	25	2.52 MHz	2.52 MHz	8.1	0.083	2.5
RL110-560K-RC	56	$\pm 10\%$	25	2.52 MHz	2.52 MHz	7.6	0.092	2.3
RL110-680K-RC	68	$\pm 10\%$	25	2.52 MHz	2.52 MHz	6.3	0.12	2.1
RL110-820K-RC	82	$\pm 10\%$	25	2.52 MHz	2.52 MHz	6.0	0.14	1.9
RL110-101K-RC	100	$\pm 10\%$	25	1 KHz	796 KHz	5.7	0.16	1.7
RL110-121K-RC	120	$\pm 10\%$	25	1 KHz	796 KHz	4.8	0.20	1.5
RL110-151K-RC	150	$\pm 10\%$	25	1 KHz	796 KHz	4.2	0.23	1.4
RL110-181K-RC	180	$\pm 10\%$	25	1 KHz	796 KHz	3.9	0.31	1.3
RL110-221K-RC	220	$\pm 10\%$	25	1 KHz	796 KHz	3.8	0.34	1.1
RL110-271K-RC	270	$\pm 10\%$	20	1 KHz	796 KHz	3.4	0.40	1.0
RL110-331K-RC	330	$\pm 10\%$	20	1 KHz	796 KHz	2.8	0.52	0.93
RL110-391K-RC	390	$\pm 10\%$	20	1 KHz	796 KHz	2.7	0.65	0.86
RL110-471K-RC	470	$\pm 10\%$	20	1 KHz	796 KHz	2.5	0.71	0.78
RL110-561K-RC	560	$\pm 10\%$	20	1 KHz	796 KHz	2.2	1.00	0.71
RL110-681K-RC	680	$\pm 10\%$	20	1 KHz	796 KHz	2.1	1.10	0.65
RL110-821K-RC	820	$\pm 10\%$	20	1 KHz	796 KHz	2.0	1.30	0.59
RL110-102K-RC	1000	$\pm 10\%$	20	1 KHz	252 KHz	1.7	1.70	0.53

### General Specifications

Rated Current..... Inductance drop 10 %, or 40 °C temperature rise at I dc  
 Operating Temperature ..... -40 °C to +105 °C  
 Storage Temperature ..... -40 °C to +105 °C

### Materials

Core Material ..... Ferrite  
 Wire ..... Enameled copper  
 Terminal Coating ..... Sn

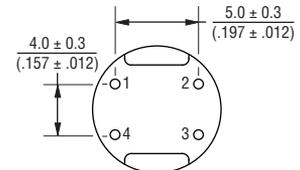
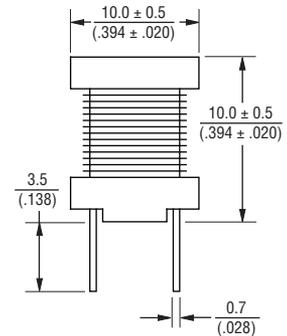
### Marking

..... Value code on top of inductor

### Packaging

Standard ..... 100 pcs. per tray

### Product Dimensions



CONNECTION:  
 10 - 33  $\mu$ H..... Pin (1,4) & (2,3)  
 39 - 1000  $\mu$ H..... Pin 2 & 4

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

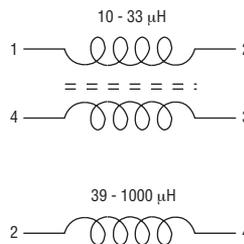
### How To Order

#### RL110 - 471K - RC

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

Example:  
 RL110-471K-RC = 470  $\mu$ H,  $\pm 10\%$

### Electrical Schematic



# Mouser Electronics

Authorized Distributor

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## Bourns:

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[RL110-271K](#) [RL110-100M](#) [RL110-101K](#) [RL110-102K](#) [RL110-120K](#) [RL110-330K](#) [RL110-331K](#) [RL110-390K](#) [RL110-391K](#) [RL110-470K](#) [RL110-471K](#) [RL110-560K](#) [RL110-561K](#) [RL110-680K](#) [RL110-681K](#) [RL110-820K](#) [RL110-821K](#)  
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[RL110-150M-RC](#) [RL110-330K-RC](#) [RL875-120M-RC](#) [RL110-470K-RC](#) [RL110-120K-RC](#) [RL110-221K-RC](#) [RL110-180M-RC](#) [RL110-820K-RC](#) [RL110-151K-RC](#) [RL110-101K-RC](#) [RL110-390K-RC](#) [RL110-681K-RC](#) [RL110-181K-RC](#)