

BOURNS®

Features

- Formerly J.W. Miller® model
- Current rating up to 2.4 A
- Inductance range: 10 µH to 10,000 µH
- High Q
- Shielded construction
- RoHS compliant*

Applications

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

This series is obsolete and not recommended for new designs.

RL875S Series - Radial Lead RF Choke

Electrical Specifications (@ 25 °C)

Part Number	Inductance (µH)	Tol.	Q (Ref.)	Test Frequency		SRF (MHz) Typ.	DCR (Ω) Max.	I dc (mA)
				L	Q			
RL875S-100L-RC	10	±15 %	60	2.52 MHz	2.52 MHz	25.0	0.06	2400
RL875S-220L-RC	22	±15 %	35	2.52 MHz	2.52 MHz	15.0	0.08	1600
RL875S-270L-RC	27	±15 %	35	2.52 MHz	2.52 MHz	14.0	0.10	1490
RL875S-330L-RC	33	±15 %	35	2.52 MHz	2.52 MHz	13.5	0.14	1300
RL875S-390L-RC	39	±15 %	30	2.52 MHz	2.52 MHz	11.0	0.15	1200
RL875S-470L-RC	47	±15 %	30	2.52 MHz	2.52 MHz	12.0	0.17	1100
RL875S-560K-RC	56	±10 %	30	2.52 MHz	2.52 MHz	12.0	0.19	990
RL875S-680K-RC	68	±10 %	28	2.52 MHz	2.52 MHz	10.5	0.21	890
RL875S-820K-RC	82	±10 %	28	2.52 MHz	2.52 MHz	9.0	0.27	810
RL875S-101K-RC	100	±10 %	35	1 KHz	796 KHz	6.5	0.32	740
RL875S-121K-RC	120	±10 %	45	1 KHz	796 KHz	6.0	0.36	670
RL875S-151K-RC	150	±10 %	50	1 KHz	796 KHz	6.0	0.51	600
RL875S-181K-RC	180	±10 %	50	1 KHz	796 KHz	5.5	0.57	550
RL875S-221K-RC	220	±10 %	60	1 KHz	796 KHz	5.5	0.76	500
RL875S-271K-RC	270	±10 %	40	1 KHz	796 KHz	4.0	0.86	450
RL875S-331K-RC	330	±10 %	30	1 KHz	796 KHz	4.0	0.97	410
RL875S-391K-RC	390	±10 %	50	1 KHz	796 KHz	3.5	1.28	370
RL875S-471K-RC	470	±10 %	45	1 KHz	796 KHz	2.5	1.44	340
RL875S-561K-RC	560	±10 %	45	1 KHz	796 KHz	2.5	1.61	310
RL875S-681K-RC	680	±10 %	45	1 KHz	796 KHz	2.0	2.07	280
RL875S-821K-RC	820	±10 %	45	1 KHz	796 KHz	2.0	2.33	260
RL875S-102K-RC	1,000	±10 %	95	1 KHz	252 KHz	2.0	2.72	230
RL875S-122K-RC	1,200	±10 %	110	1 KHz	252 KHz	1.5	3.98	210
RL875S-152K-RC	1,500	±10 %	110	1 KHz	252 KHz	1.5	4.50	190
RL875S-182K-RC	1,800	±10 %	110	1 KHz	252 KHz	1.0	6.81	170
RL875S-222K-RC	2,200	±10 %	110	1 KHz	252 KHz	1.0	7.56	160
RL875S-272K-RC	2,700	±10 %	95	1 KHz	252 KHz	1.0	8.54	140
RL875S-332K-RC	3,300	±10 %	95	1 KHz	252 KHz	1.0	9.74	130
RL875S-392K-RC	3,900	±10 %	95	1 KHz	252 KHz	1.0	12.9	120
RL875S-472K-RC	4,700	±10 %	95	1 KHz	252 KHz	1.0	14.7	110
RL875S-562K-RC	5,600	±10 %	95	1 KHz	252 KHz	1.0	20.4	99
RL875S-682K-RC	6,800	±10 %	95	1 KHz	252 KHz	0.5	23.0	89
RL875S-822K-RC	8,200	±10 %	85	1 KHz	252 KHz	0.5	30.6	81
RL875S-103K-RC	10,000	±10 %	85	1 KHz	79.6 KHz	0.5	35.0	74

General Specifications

Rated Current.....Inductance drop 10 %, or temperature rise of 40 °C 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

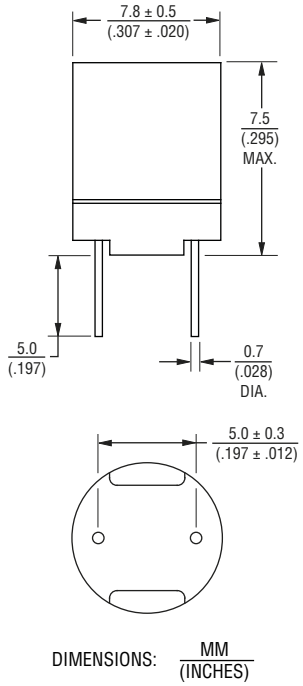
Marking

..... Value code on top of inductor

Packaging

Standard..... 100 pcs. per bag

Product Dimensions



DIMENSIONS: MM (INCHES)

How To Order

RL875S - 102K - RC

Model

Value/Tolerance Code (see table)

Compliance Code
RC = RoHS Compliant

Example:
RL875S-102K-RC = 1000 µH, ±10 %

Electrical Schematic



WARNING Cancer and Reproductive Harm
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.

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