



Features

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

Applications

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

RL875S Series - Radial Lead RF Choke

Electrical Specifications (@ 25 °C)

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

How To Order

RL875S - 102K - RC

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

Example:

RL875S-102K-RC = 1000 μ H, $\pm 10\%$

Electrical Schematic



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
 WireEnameled copper
 Terminal Coating.....Sn

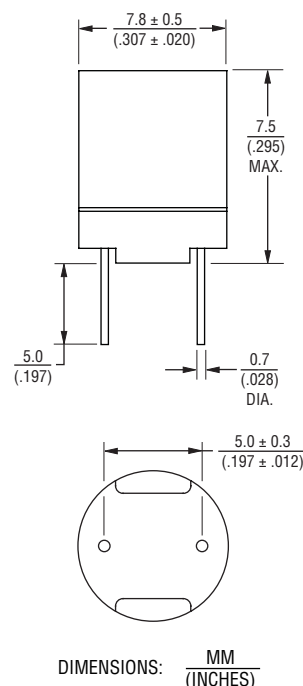
Marking

..... Value code on top of inductor

Packaging

Standard..... 100 pcs. per bag

Product Dimensions



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

<u>RL875S-101K-RC</u>	<u>RL875S-680K-RC</u>	<u>RL875S-152K-RC</u>	<u>RL875S-391K-RC</u>	<u>RL875S-102K-RC</u>	<u>RL875S-331K-RC</u>
<u>RL875S-220L-RC</u>	<u>RL875S-560K-RC</u>	<u>RL875S-681K-RC</u>	<u>RL875S-181K-RC</u>	<u>RL875S-392K-RC</u>	<u>RL875S-822K-RC</u>
<u>RL875S-472K-RC</u>	<u>RL875S-272K-RC</u>	<u>RL875S-561K-RC</u>	<u>RL875S-562K-RC</u>	<u>RL875S-332K-RC</u>	<u>RL875S-390L-RC</u>
<u>RL875S-221K-RC</u>	<u>RL875S-121K-RC</u>	<u>RL875S-820K-RC</u>	<u>RL875S-182K-RC</u>	<u>RL875S-682K-RC</u>	<u>RL875S-470L-RC</u>
<u>RL875S-270L-RC</u>	<u>RL875S-151K-RC</u>	<u>RL875S-103K-RC</u>	<u>RL875S-330L-RC</u>	<u>RL875S-122K-RC</u>	<u>RL875S-222K-RC</u>
<u>RL875S-821K-RC</u>	<u>RL875S-471K-RC</u>	<u>RL875S-271K-RC</u>	<u>RL875S-100L-RC</u>		