



Features

- Formerly J. W. Miller® model
- Current rating up to 90 mA
- Inductance range: 1000 μ H to 120,000 μ H
- High Q
- Shielded construction
- RoHS compliant*

Applications

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

RL181S Series - Radial Lead RF Choke

Electrical Specifications (@ 25 °C)

Part Number	Inductance (μ H)	Tol.	Q (Min.)	Test Frequency		SRF (MHz) Typ.	DCR (Ω) Max.	I dc (mA)
				L	Q			
RL181S-102J-RC	1000	$\pm 5\%$	70	1 KHz	50 KHz	0.77	3.4	90
RL181S-122J-RC	1200	$\pm 5\%$	70	1 KHz	50 KHz	0.70	3.7	75
RL181S-152J-RC	1500	$\pm 5\%$	70	1 KHz	50 KHz	0.64	4.0	70
RL181S-182J-RC	1800	$\pm 5\%$	70	1 KHz	50 KHz	0.57	4.5	65
RL181S-222J-RC	2200	$\pm 5\%$	70	1 KHz	50 KHz	0.51	5.2	60
RL181S-272J-RC	2700	$\pm 5\%$	70	1 KHz	50 KHz	0.48	5.8	55
RL181S-332J-RC	3300	$\pm 5\%$	100	1 KHz	50 KHz	0.44	6.1	50
RL181S-392J-RC	3900	$\pm 5\%$	100	1 KHz	50 KHz	0.41	7.2	45
RL181S-472J-RC	4700	$\pm 5\%$	100	1 KHz	50 KHz	0.38	7.5	40
RL181S-562J-RC	5600	$\pm 5\%$	100	1 KHz	50 KHz	0.35	8.4	40
RL181S-682J-RC	6800	$\pm 5\%$	100	1 KHz	50 KHz	0.32	9.7	35
RL181S-822J-RC	8200	$\pm 5\%$	100	1 KHz	50 KHz	0.28	10.4	30
RL181S-103J-RC	10,000	$\pm 5\%$	100	1 KHz	50 KHz	0.25	12.1	25
RL181S-123J-RC	12,000	$\pm 5\%$	100	1 KHz	50 KHz	0.22	13.0	25
RL181S-153J-RC	15,000	$\pm 5\%$	100	1 KHz	50 KHz	0.22	15.0	22
RL181S-183J-RC	18,000	$\pm 5\%$	100	1 KHz	50 KHz	0.19	17.0	21
RL181S-223J-RC	22,000	$\pm 5\%$	100	1 KHz	50 KHz	0.19	19.5	20
RL181S-273J-RC	27,000	$\pm 5\%$	100	1 KHz	50 KHz	0.16	22.0	18
RL181S-333J-RC	33,000	$\pm 5\%$	100	1 KHz	50 KHz	0.16	26.0	17
RL181S-363J-RC	36,000	$\pm 5\%$	100	1 KHz	50 KHz	0.14	27.0	16
RL181S-393J-RC	39,000	$\pm 5\%$	100	1 KHz	50 KHz	0.12	45.0	15
RL181S-473J-RC	47,000	$\pm 5\%$	100	1 KHz	50 KHz	0.12	52.0	13
RL181S-563J-RC	56,000	$\pm 5\%$	100	1 KHz	50 KHz	0.12	58.0	12
RL181S-683J-RC	68,000	$\pm 5\%$	100	1 KHz	50 KHz	0.09	67.0	11
RL181S-823J-RC	82,000	$\pm 5\%$	100	1 KHz	50 KHz	0.09	71.0	10
RL181S-104J-RC	100,000	$\pm 5\%$	100	1 KHz	50 KHz	0.09	82.0	9
RL181S-124J-RC	120,000	$\pm 5\%$	100	1 KHz	50 KHz	0.09	97.0	8

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

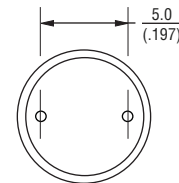
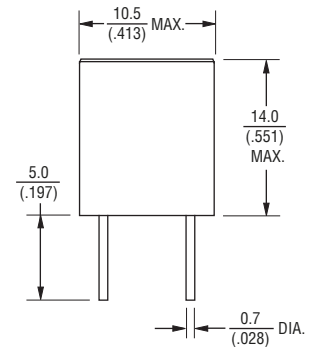
Marking

..... Value code on top of inductor

Packaging

Standard..... 100 pcs. per bag

Product Dimensions



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

How To Order

RL181S - 102J - RC

Model _____

Value/Tolerance Code (see table) _____

Compliance Code _____
 RC = RoHS Compliant

Example:
 RL181S-102J-RC = 1,000 μ H, $\pm 5\%$

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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