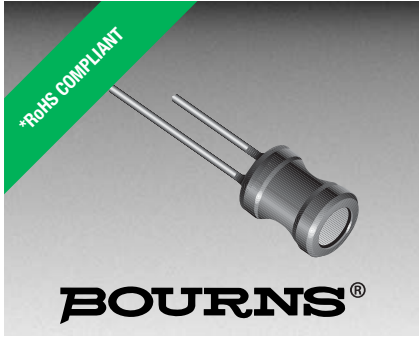




**THE DATASHEET OF
RLB9012-6R8ML**





Features

- Available in E12 series
- Inductance range: 1.0 μ H to 47 mH
- RoHS compliant*

Applications

- Power supplies
- DC/DC converters
- General use

RLB9012 Radial Inductor

General Specifications

Inductance Drop at Rated Current (IDC).....	5 %
Operating Temperature	-55 °C to +125 °C
Storage Temperature	-55 °C to +105 °C

Materials

Core Material.....	Ferrite DR core
Wire.....	Enameled copper wire
Terminal	Cu/AG/Sn
Tube	Shrinkable tube 125 °C, 600 V

Product Dimensions

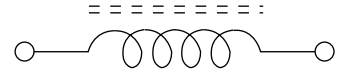


Additional Information

Click these links for more information:



Electrical Schematic



Typical Part Marking



Electrical Characteristics

BOURNS Part No.	Inductance (μ H) @ 1 kHz	Q ref.	Q Test freq. (MHz)	SRF (MHz) min.	RDC (ohms) max.	IDC (A) max.
RLB9012-1R0ML	1.0 \pm 20 %	20	7.96	150.00	0.013	10.0
RLB9012-1R5ML	1.5 \pm 20 %	20	7.96	100.00	0.016	8.50
RLB9012-2R2ML	2.2 \pm 20 %	20	7.96	90.00	0.021	6.50
RLB9012-3R3ML	3.3 \pm 20 %	20	7.96	65.00	0.025	5.50
RLB9012-4R7ML	4.7 \pm 20 %	20	7.96	51.00	0.030	4.60
RLB9012-6R8ML	6.8 \pm 20 %	20	7.96	29.00	0.035	4.10
RLB9012-100KL	10.0 \pm 10 %	50	2.52	14.00	0.045	3.40
RLB9012-120KL	12.0 \pm 10 %	50	2.52	13.00	0.050	3.10
RLB9012-150KL	15.0 \pm 10 %	50	2.52	12.00	0.056	2.90
RLB9012-180KL	18.0 \pm 10 %	40	2.52	11.00	0.061	2.66
RLB9012-220KL	22.0 \pm 10 %	40	2.52	9.20	0.070	2.40
RLB9012-270KL	27.0 \pm 10 %	40	2.52	8.50	0.080	2.22
RLB9012-330KL	33.0 \pm 10 %	30	2.52	7.80	0.090	2.05
RLB9012-390KL	39.0 \pm 10 %	30	2.52	6.90	0.100	1.85
RLB9012-470KL	47.0 \pm 10 %	30	2.52	6.50	0.160	1.77
RLB9012-560KL	56.0 \pm 10 %	30	2.52	5.40	0.180	1.48



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
 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.

Packaging: 200 pieces per tray

RLB9012 Radial Inductor

BOURNS®

Electrical Characteristics (Continued)

BOURNS Part No.	Inductance (μH) @ 1 kHz	Q ref.	Q Test freq. (MHz)	SRF (MHz) min.	RDC (ohms) max.	IDC (A) max.
			Q			
RLB9012-680KL	68.0 \pm 10 %	30	2.52	4.90	0.210	1.36
RLB9012-820KL	82.0 \pm 10 %	30	2.52	4.10	0.230	1.30
RLB9012-101KL	100.0 \pm 10 %	20	0.796	3.70	0.280	1.40
RLB9012-121KL	120.0 \pm 10 %	20	0.796	3.40	0.320	1.25
RLB9012-151KL	150.0 \pm 10 %	20	0.796	3.20	0.370	1.15
RLB9012-181KL	180.0 \pm 10 %	20	0.796	2.80	0.580	1.08
RLB9012-221KL	220.0 \pm 10 %	20	0.796	2.70	0.650	1.00
RLB9012-271KL	270.0 \pm 10 %	20	0.796	2.40	0.750	0.90
RLB9012-331KL	330.0 \pm 10 %	20	0.796	2.30	0.850	0.78
RLB9012-391KL	390.0 \pm 10 %	20	0.796	2.10	1.000	0.74
RLB9012-471KL	470.0 \pm 10 %	20	0.796	1.90	1.100	0.68
RLB9012-561KL	560.0 \pm 10 %	20	0.796	1.80	1.400	0.64
RLB9012-681KL	680.0 \pm 10 %	20	0.796	1.60	1.600	0.59
RLB9012-821KL	820.0 \pm 10 %	20	0.796	1.50	1.800	0.56
RLB9012-102KL	1000.0 \pm 10 %	20	0.252	1.30	2.900	0.51
RLB9012-122KL	1200.0 \pm 10 %	15	0.252	1.20	3.400	0.48
RLB9012-152KL	1500.0 \pm 10 %	15	0.252	1.10	3.800	0.43
RLB9012-182KL	1800.0 \pm 10 %	15	0.252	1.00	5.300	0.39
RLB9012-222KL	2200.0 \pm 10 %	15	0.252	0.80	5.900	0.36
RLB9012-272KL	2700.0 \pm 10 %	15	0.252	0.70	8.200	0.32
RLB9012-332KL	3300.0 \pm 10 %	15	0.252	0.60	9.100	0.29
RLB9012-392KL	3900.0 \pm 10 %	15	0.252	0.55	9.900	0.27
RLB9012-472KL	4700.0 \pm 10 %	15	0.252	0.50	13.60	0.24
RLB9012-562KL	5600.0 \pm 10 %	15	0.252	0.45	14.90	0.22
RLB9012-682KL	6800.0 \pm 10 %	15	0.252	0.40	20.70	0.20
RLB9012-822KL	8200.0 \pm 10 %	15	0.252	0.35	22.70	0.18
RLB9012-103KL	10,000 \pm 10 %	15	0.079	0.32	25.10	0.17
RLB9012-123KL	12,000 \pm 10 %	15	0.079	0.28	34.70	0.15
RLB9012-153KL	15,000 \pm 10 %	15	0.079	0.25	48.90	0.14
RLB9012-183KL	18,000 \pm 10 %	15	0.079	0.23	53.60	0.12
RLB9012-223KL	22,000 \pm 10 %	15	0.079	0.21	59.30	0.11
RLB9012-273KL	27,000 \pm 10 %	15	0.079	0.19	82.70	0.10
RLB9012-333KL	33,000 \pm 10 %	15	0.079	0.17	91.50	0.09
RLB9012-393KL	39,000 \pm 10 %	15	0.079	0.15	125.50	0.08
RLB9012-473KL	47,000 \pm 10 %	15	0.079	0.12	137.80	0.08

Packaging: 200 pieces per tray

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