



Features

- 400 VDC rated
- Shrink tubing protected winding
- Fixed lead spacing
- RoHS compliant*

Applications

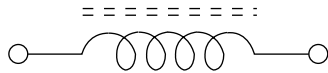
- TI UCC28880 converter (Use with Bourns® Model RLB1112V4-222J)
- DC/DC converters
- Power supplies

RLB1112V4 Series 400 Volt Radial Inductor

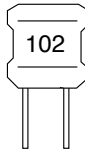
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 1 kHz / 1 V		Q Min. @ 252 kHz	SRF Min. (MHz)	DCR Typ. (Ω)	DCR Max. (Ω)	I rms Typ. (A)	I sat Typ. (A)
	L (mH)	Tol. (%)						
RLB1112V4-102J	1.0	± 5	20	1.10	1.15	1.40	0.51	0.50
RLB1112V4-152J	1.5	± 5	20	0.82	1.65	2.40	0.43	0.38
RLB1112V4-222J	2.2	± 5	20	0.76	2.75	3.20	0.35	0.33
RLB1112V4-332J	3.3	± 5	30	0.64	4.15	4.90	0.28	0.26
RLB1112V4-472J	4.7	± 5	30	0.54	5.75	7.60	0.24	0.21

Electrical Schematic



Typical Part Marking



Inductance Code:
 - First two digits are significant
 - Third digit represents the number of zeroes to follow

How to Order

RLB1112 V4 - 102 J

Model _____
 Rated Voltage _____
 V4 = 400 VDC
 Value Code (see table) _____
 Tolerance Code _____
 J = ±5 %

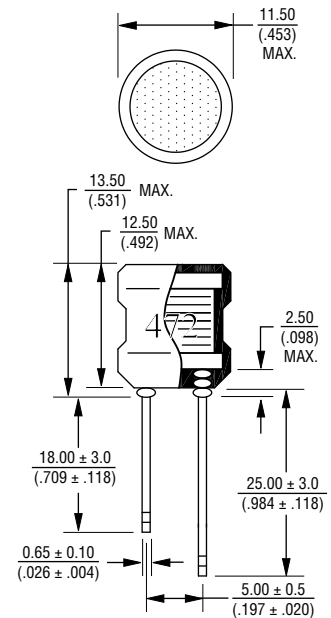
General Specifications

Operating Temperature-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature.....-40 °C to +125 °C
 Temperature Rise40 °C at rated I rms
 Rated Current
 Inductance drops 10 % at I sat
 Rated Voltage..... 400 VDC
 (Tested @1 μs on Impulse Surge
 Voltage Tester Model 7720)

Materials

Core.....Ferrite
 WireEnameled copper
 Terminal FinishCu/Ag/Sn
 Tubing..... Shrink tube 125 °C, 600 V
 Packaging.....500 pcs. per 13 " reel

Product Dimensions



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

BOURNS®

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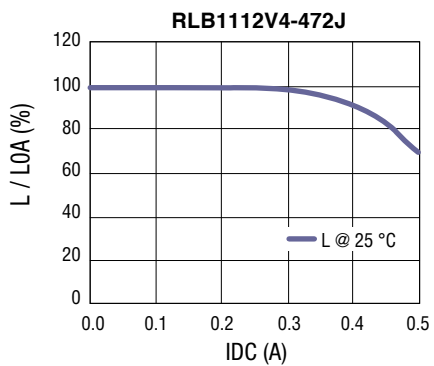
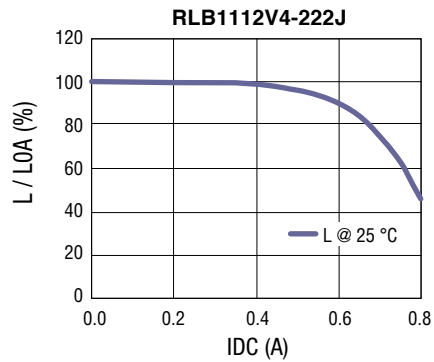
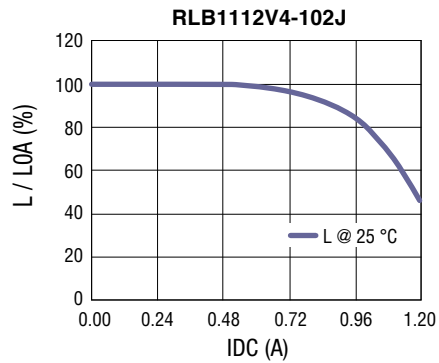
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*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

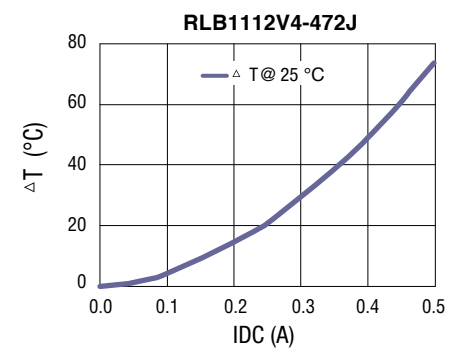
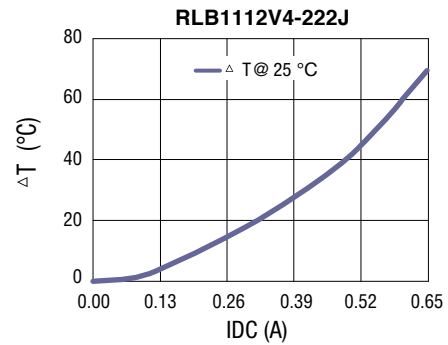
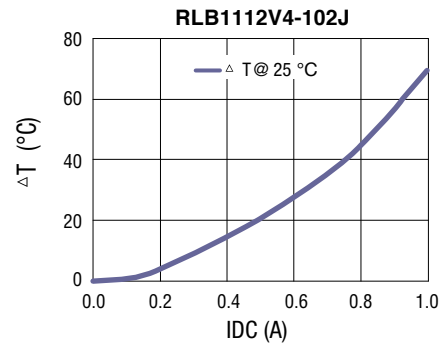
RLB1112V4 Series 400 Volt Radial Inductor

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Inductance vs. IDC



Temperature Rise vs. IDC



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Technical drawing of a 472 component, showing top, side, and detail views with dimensions in mm and inches.

Top View Dimensions:

- Overall Diameter: 330 (12.992) DIA.
- Inner Hole Diameter: 54 (2.126)

Side View Dimensions:

- Overall Thickness: 54 (2.126)

Detail View Dimensions:

- Carrier Thickness: 18.00 ± 0.50 (.709 ± .020)
- Carrier Width: 4.00 ± 0.20 (0.157 ± 0.008) DIA.
- Carrier Length: 15.00 ± 0.50 (0.591 ± 0.020)
- Carrier Hole Diameter: 2.00 (0.079) MAX.
- Carrier Hole Position: 1.42 (0.056) MAX.

Assembly View Dimensions:

- Overall Length: 32.50 (1.280) MAX.
- Overall Width: 9.00 ± 0.50 (0.354 ± 0.020)
- Overall Height: 18.50 ± 0.80 (0.728 ± 0.031)
- Overall Diameter: 4.00 ± 0.20 (0.157 ± 0.008) DIA.
- Overall Thickness: 12.70 ± 0.30 (0.500 ± 0.012)
- Overall Width (with carrier): 12.70 ± 0.30 (0.500 ± 0.012)
- Overall Height (with carrier): 18.50 ± 0.80 (0.728 ± 0.031)
- Overall Diameter (with carrier): 4.00 ± 0.20 (0.157 ± 0.008) DIA.

USER DIRECTION OF FEED

500 PCS. PER REEL

DIMENSIONS: MM (INCHES)

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