

Features

- Semi-shielded construction
- Miniature size
- Low profile: 1.2 mm
- Inductance range: 0.24 to 2.2 μ H
- Rated current up to 3.5 A
- RoHS compliant* and halogen free**

Applications

- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cellphones
- Televisions, LCD displays

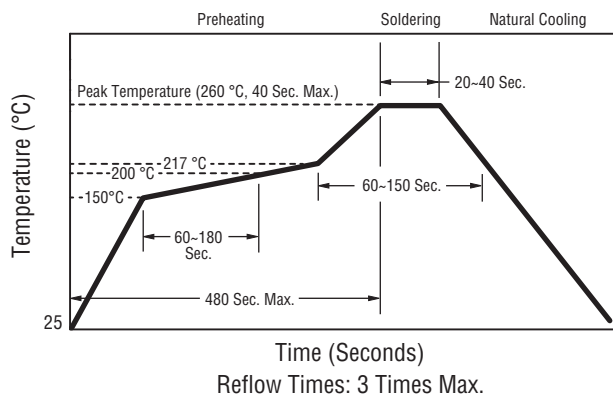
SRN2012 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 1 MHz / 0.1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	I _{rms} (A)	I _{sat} (A)
	L (μ H)	Tol. %						
SRN2012-R24M	0.24	20	8	1	360	0.033	3.5	4.8
SRN2012-R47M	0.47	20	9	1	220	0.046	2.9	3.5
SRN2012-1R0M	1.0	20	10	1	110	0.104	2.3	2.5
SRN2012-1R5M	1.5	20	12	1	90	0.108	1.8	2.0
SRN2012-2R2M	2.2	20	13	1	70	0.186	1.3	1.6

Soldering Profile

Peak Temperature: 260 °C max.
 Max. Peak Temperature 260 °C: 40 sec. max.
 Max. Time Above 217 °C: 60~150 sec. max.



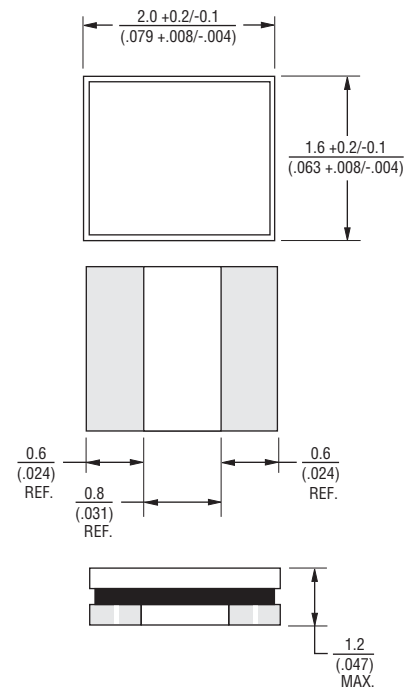
General Specifications

Operating Temperature -55 °C to +125 °C
 (Temperature rise included)
 Storage Temperature -40 °C to +85 °C
 Resistance to Solder Heat +260 °C for 40 sec.
 Temperature Rise 40 °C at rated I_{rms}
 Rated Current Inductance drops 30 % at I_{sat}

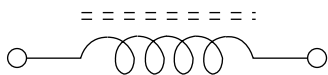
Materials

Core Ferrite
 Wire Enameled copper
 Terminal Finish Sn
 Coating Magnetic epoxy resin
 Packaging 2000 pcs. per 7-inch reel

Product Dimensions



Electrical Schematic



How to Order

SRN2012 - R24M
 Model _____
 Value Code (see table) _____

BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

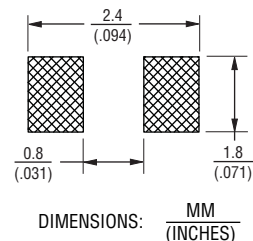
www.bourns.com



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.
 **Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.
 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

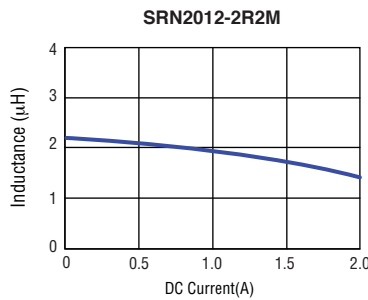
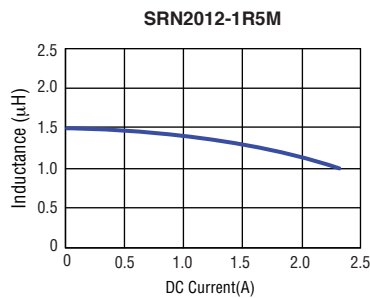
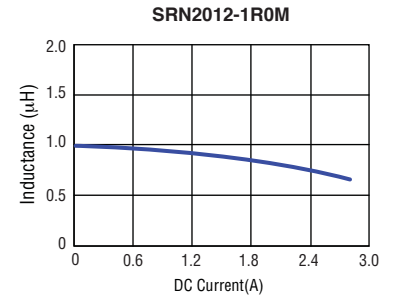
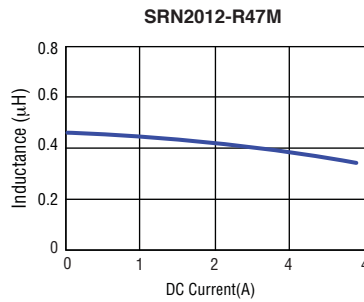
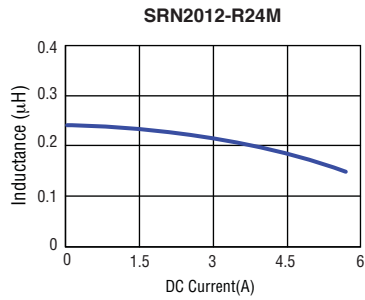
Recommended Layout



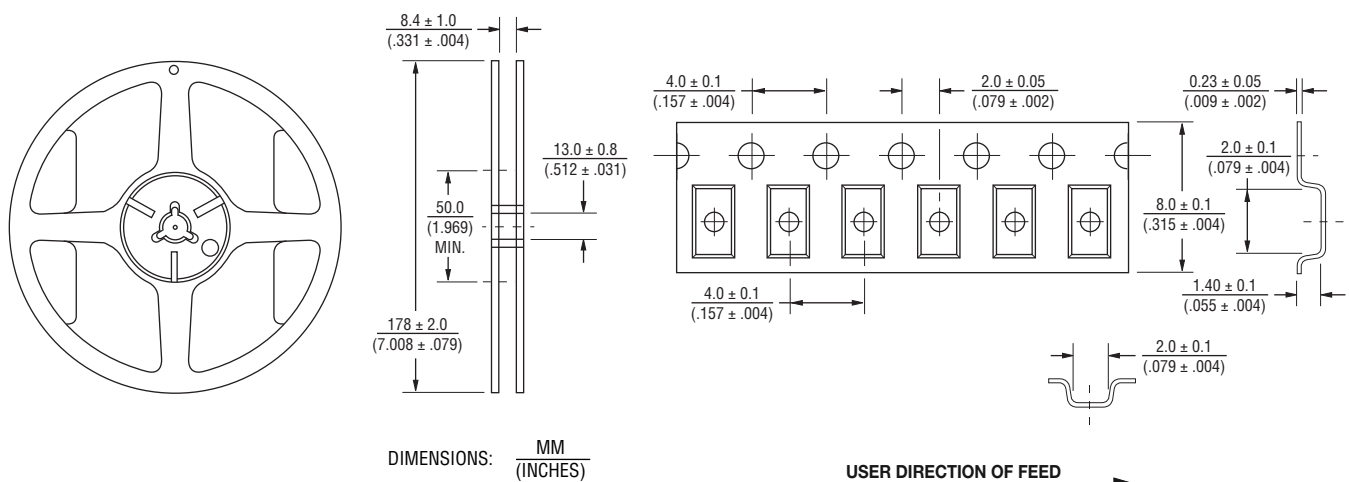
SRN2012 Series - Semi-shielded Power Inductors

BOURNS®

L vs. IDC



Packaging Specifications



REV. 12/14

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