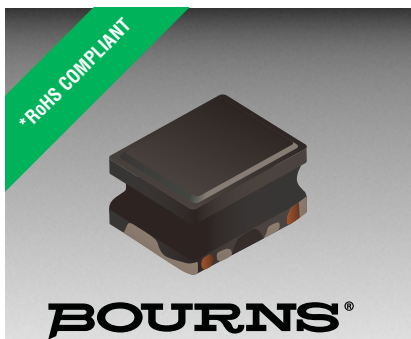




Features

- 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

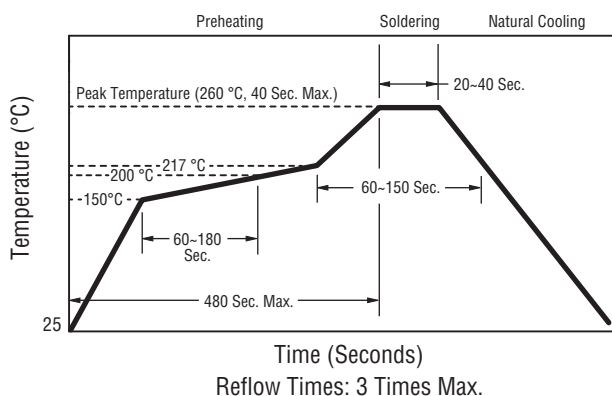
SRN2012 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

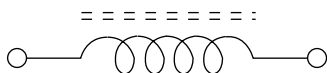
Bourns Part No.	Inductance @ 1 MHz / 0.1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	I _{rms} (A)	I _{sat} (A)
	L (μ H)	Tol. %						
SRN2012-R24M	0.24	20	8	1	360	0.033	3.5	4.8
SRN2012-R47M	0.47	20	9	1	220	0.046	2.9	3.5
SRN2012-1R0M	1.0	20	10	1	110	0.104	2.3	2.5
SRN2012-1R5M	1.5	20	12	1	90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



Electrical Schematic



How to Order

Model SRN2012 - R24M
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

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

**Bourns follows the prevailing definition of "halogen free" in the industry. 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.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

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}

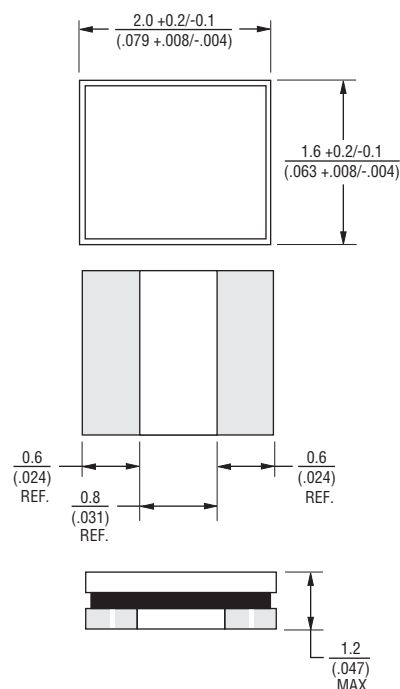
Rated Current

..... Inductance drops 30 % at I_{sat}

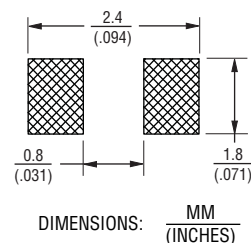
Materials

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

Product Dimensions



Recommended Layout

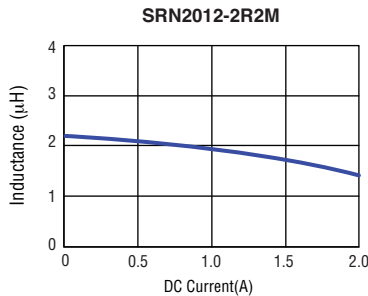
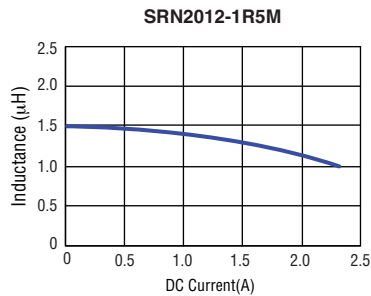
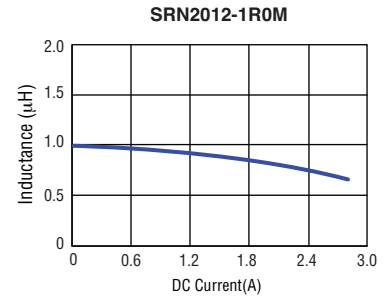
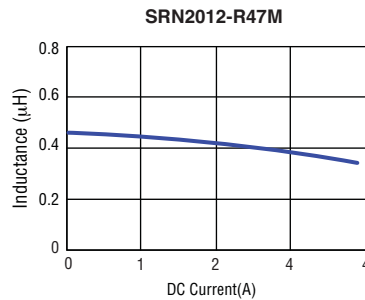
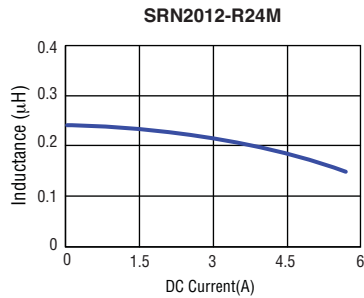


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

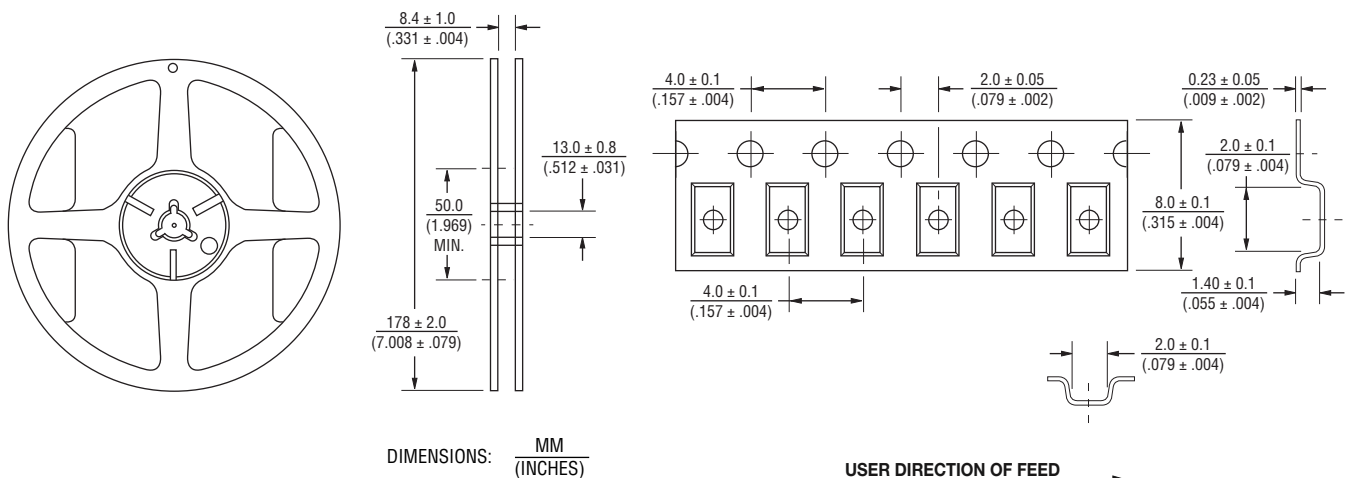
SRN2012 Series - Semi-shielded Power Inductors

BOURNS®

L vs. IDC



Packaging Specifications



REV. 12/14

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.