



Features

- Semi-shielded construction
- Miniature size
- Low profile: 1.2 mm
- Inductance range: 0.24 to 2.2 μ H
- Rated current up to 4.7 A
- RoHS compliant* and halogen free**

Applications

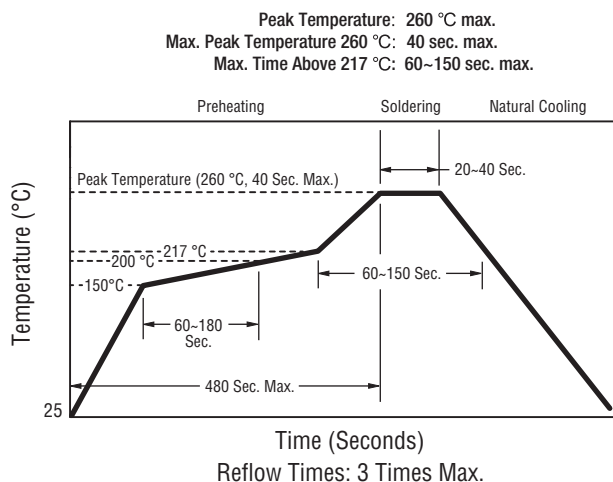
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cellphones
- Televisions, LCD displays

SRN2512 Series - Semi-shielded Power Inductors

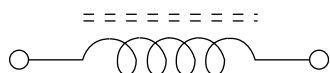
Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 1 MHz / 0.1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	Irms (A)	Isat (A)
	L (μ H)	Tol. %						
SRN2512-R24M	0.24	20	7	1	330	0.024	4.7	8.0
SRN2512-R33M	0.33	20	7	1	300	0.032	4.5	5.7
SRN2512-R47M	0.47	20	8	1	190	0.032	4.4	5.5
SRN2512-R68M	0.68	20	9	1	140	0.043	3.6	4.5
SRN2512-1R0M	1.0	20	10	1	120	0.057	3.5	3.9
SRN2512-1R5M	1.5	20	10	1	90	0.096	2.5	3.0
SRN2512-2R2M	2.2	20	11	1	80	0.102	2.3	2.7

Soldering Profile



Electrical Schematic



How to Order

Model SRN2512 - R24M
Value Code (see table) _____

BOURNS®

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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

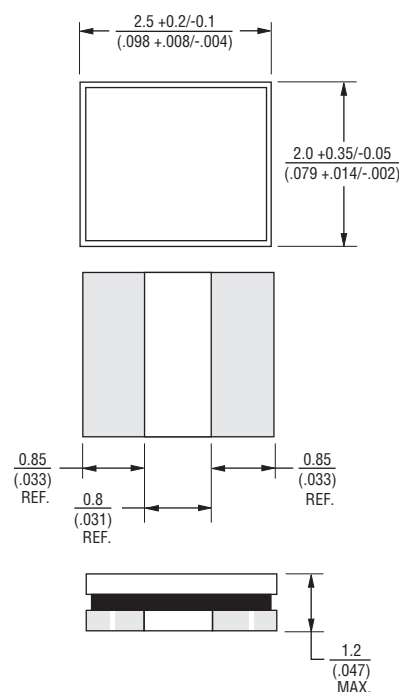
General Specifications

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 Irms
Rated Current Inductance drops 30 % at Isat

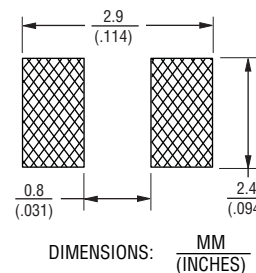
Materials

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

Product Dimensions



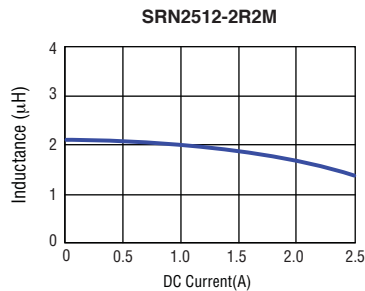
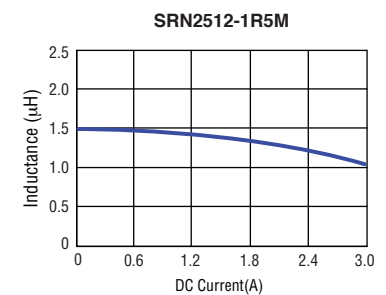
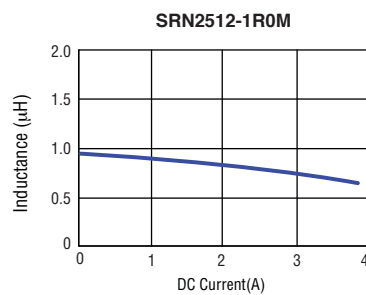
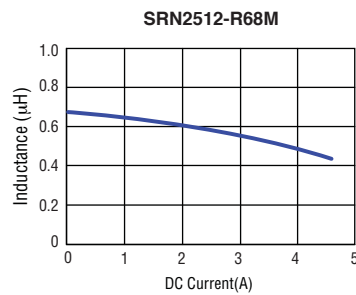
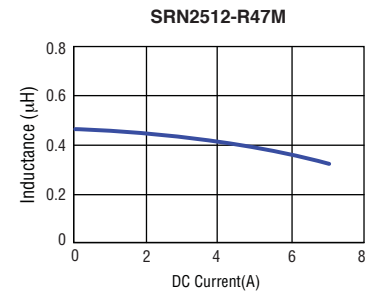
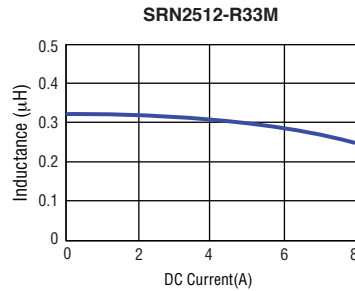
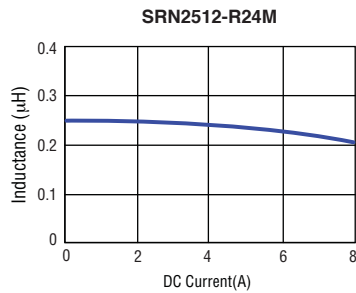
Recommended Layout



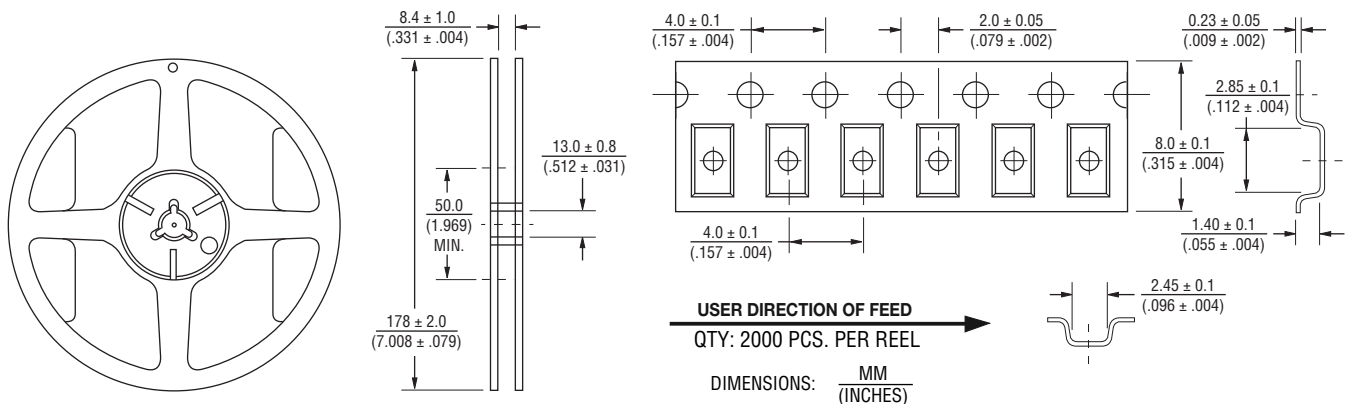
SRN2512 Series - Semi-shielded Power Inductors

BOURNS®

L vs. IDC



Packaging Specifications



REV. 12/14

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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