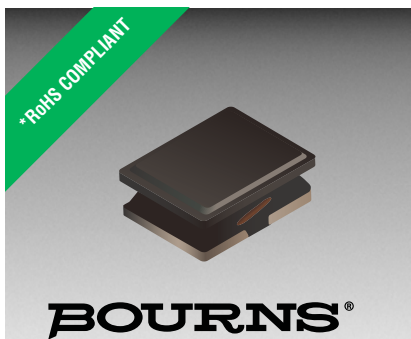




Features

- 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

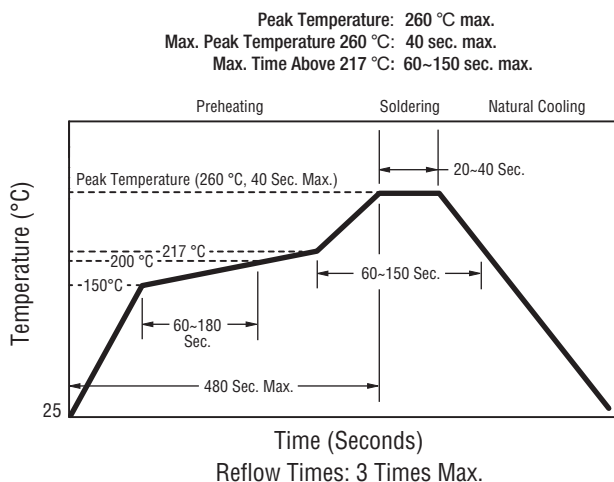
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cellphones
- Televisions, LCD displays

SRN2512 Series - Semi-shielded Power Inductors

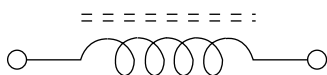
Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 1 MHz / 0.1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	I _{rms} (A)	I _{sat} (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®

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.

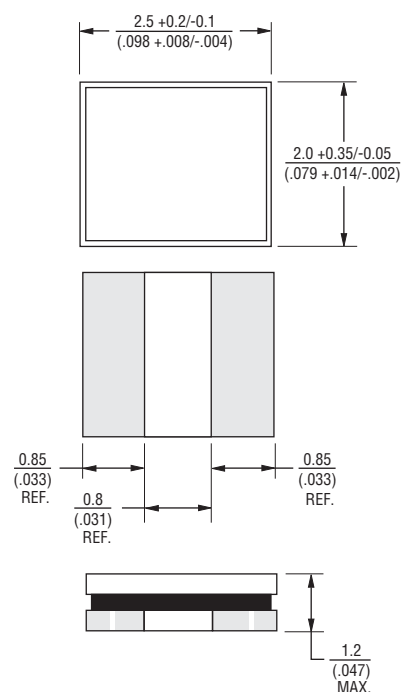
Temperature Rise 40 °C at rated I_{rms}
Rated Current

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

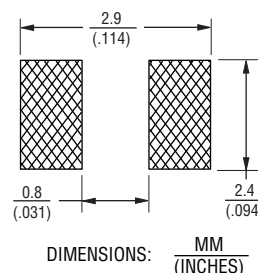
Materials

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

Product Dimensions



Recommended Layout

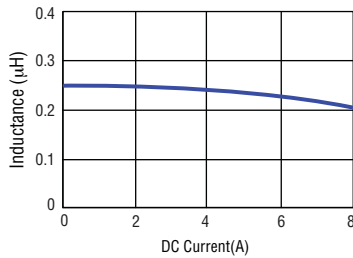


SRN2512 Series - Semi-shielded Power Inductors

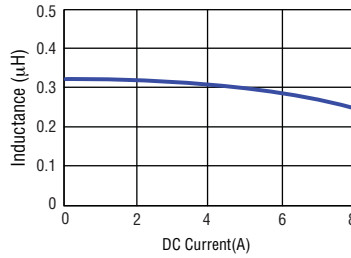
BOURNS®

L vs. IDC

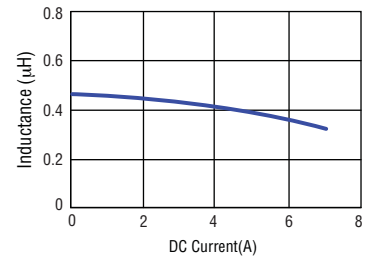
SRN2512-R24M



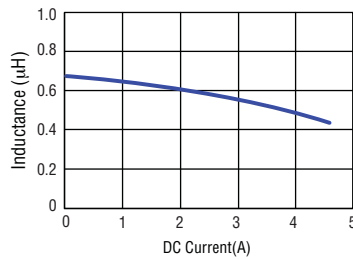
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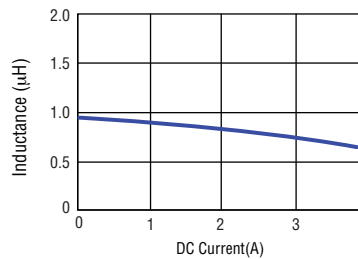
SRN2512-R47M



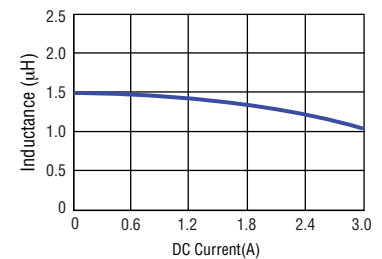
SRN2512-R68M



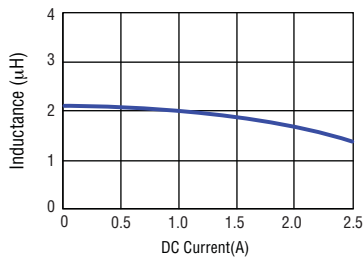
SRN2512-1R0M



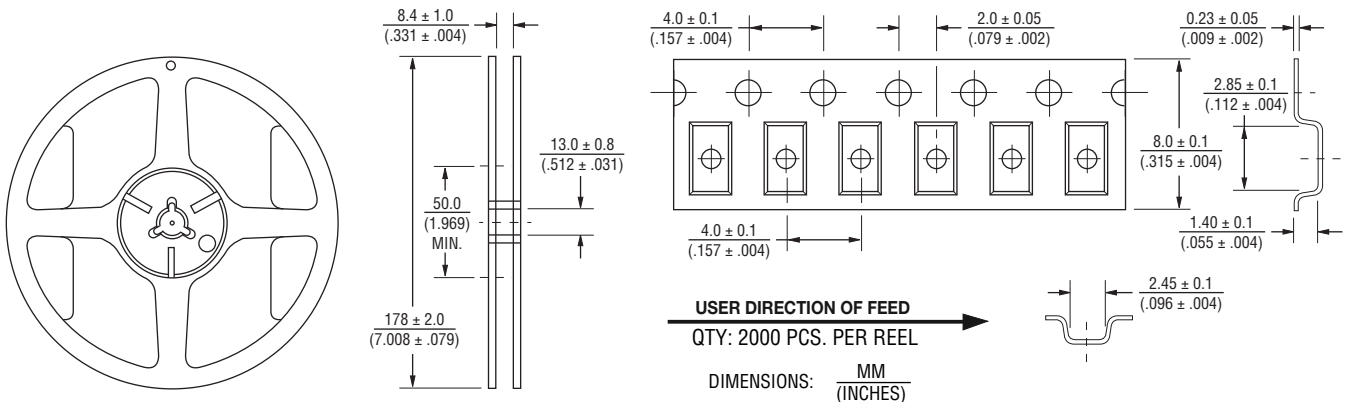
SRN2512-1R5M



SRN2512-2R2M



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.