

Features

- Semi-shielded construction
- Miniature size
- Low profile: 1 mm
- Inductance range: 0.24 to 2.2 μH
- Rated current up to 3.1 A
- RoHS compliant* and halogen free**

Applications

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

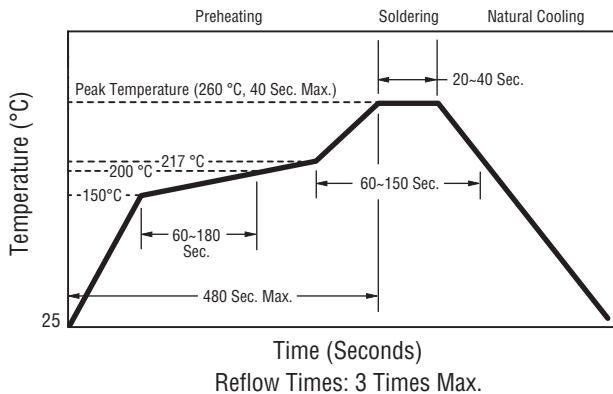
SRN2510 Series - Semi-shielded Power Inductors

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 (μH)	Tol. %						
SRN2510-R24M	0.24	20	8	1	210	0.042	3.1	4.3
SRN2510-R47M	0.47	20	8	1	200	0.042	3.1	3.2
SRN2510-R68M	0.68	20	9	1	160	0.055	2.8	2.9
SRN2510-1R0M	1.0	20	10	1	140	0.08	2.2	2.7
SRN2510-2R2M	2.2	20	11	1	80	0.169	1.5	1.9

Soldering Profile

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



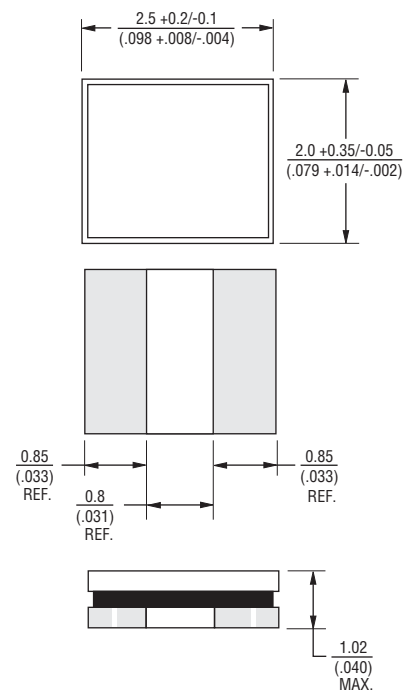
General Specifications

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}

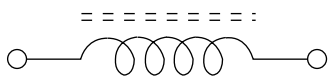
Materials

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

Product Dimensions



Electrical Schematic



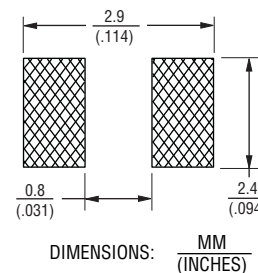
How to Order

Model **SRN2510 - R24M**
 Value Code (see table)



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

Recommended Layout



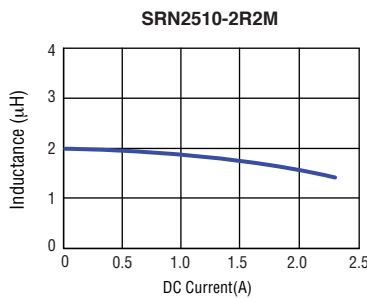
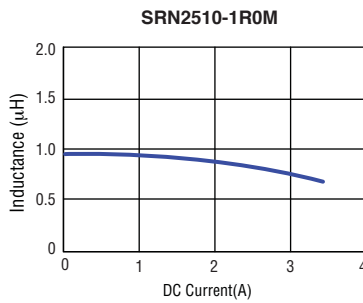
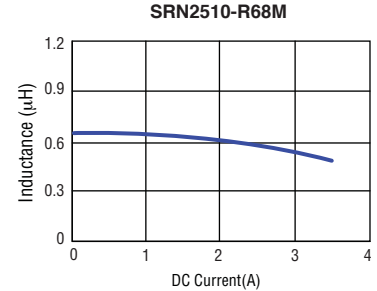
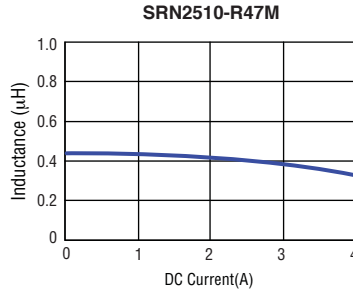
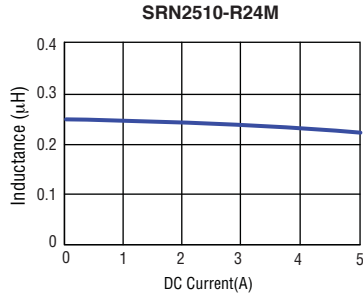
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* 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.
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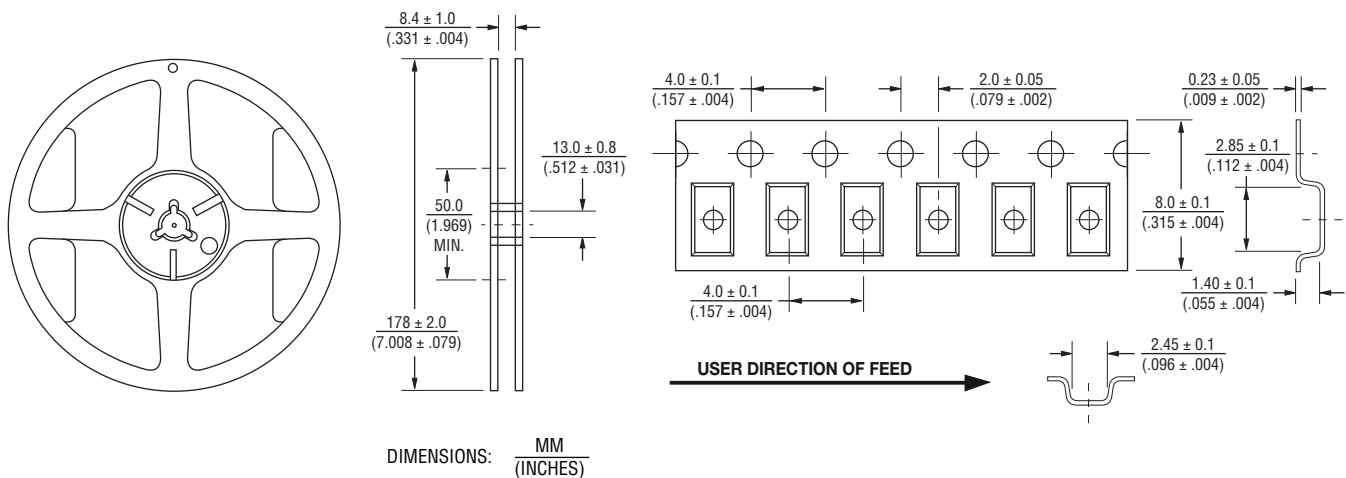
SRN2510 Series - Semi-shielded Power Inductors

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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