

Features

- Semi-shielded construction
- Miniature size
- Low profile: 1.0 mm
- Inductance range: 0.24 to 2.2 µH
- Rated current up to 4.4 A
- RoHS compliant* and halogen free**

Applications

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

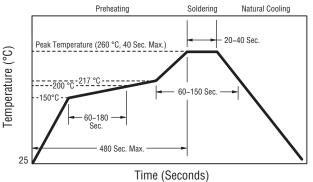
SRN2010 Series - Semi-shielded Power Inductors

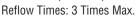
Electrical Specifications @ 25 °C

	Inductance @ 1 MHz / 0.1 V		Q	Test Freg.	SRF (MHz)	DCR (Ω)	Irms	Isat
Bourns Part No.	L (μΗ)	Tol. %	(Ref.)	(MHz)	Min.	Max.	(A)	(A)
SRN2010-R24M	0.24	20	8	1	370	0.028	4.4	5.1
SRN2010-R47M	0.47	20	9	1	230	0.042	3.3	3.8
SRN2010-R68M	0.68	20	10	1	200	0.055	2.8	3.2
SRN2010-1R0M	1.00	20	11	1	150	0.072	2.4	2.9
SRN2010-2R2M	2.20	20	14	1	100	0.170	1.7	2.0

Soldering Profile

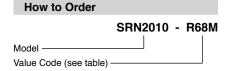






Electrical Schematic





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WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

* 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 (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) 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

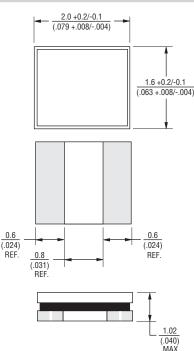
.....+260 °C for 40 sec. Temperature Rise40 °C at rated Irms Rated Current

..... Inductance drops 30 % at Isat

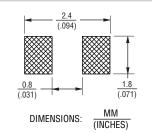
Materials

Core.....Ferrite WireEnameled copper Terminal FinishSn CoatingSn Packaging2000 pcs. per 7-inch reel

Product Dimensions



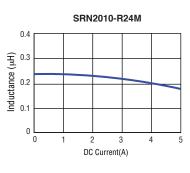
Recommended Layout

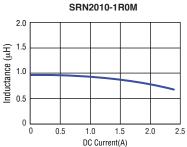


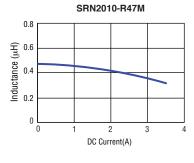
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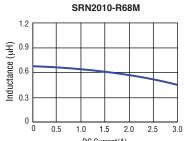
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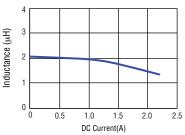




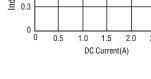




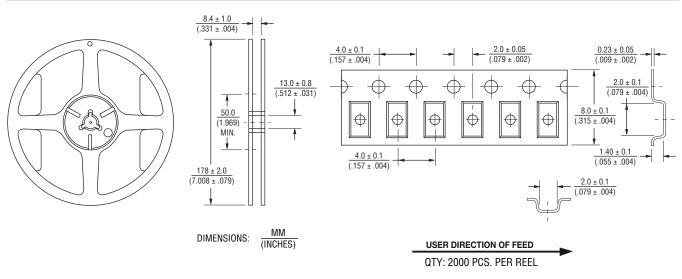




SRN2010-2R2M



Packaging Specifications



REV. 12/14

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