



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

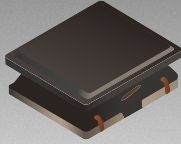
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



ROHS COMPLIANT and
**HALOGEN FREE



BOURNS®

Features

- Semi-shielded construction
- Miniature size
- Low profile, 1 mm
- Flat wire
- Low DCR
- RoHS compliant* and halogen free**

Applications

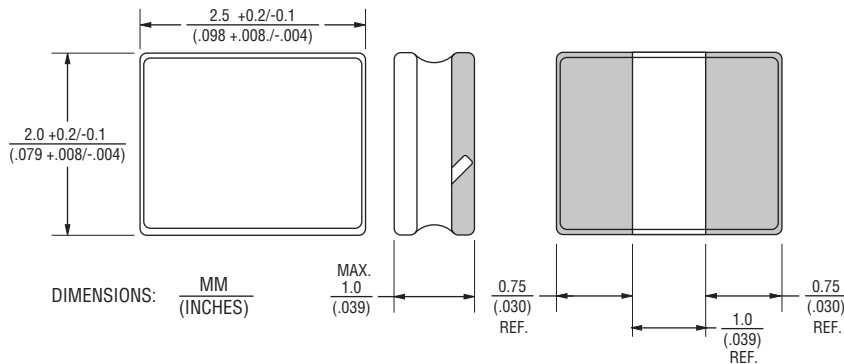
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- TV, LCD displays

SRN2510F Series – Semi-Shielded Power Inductors

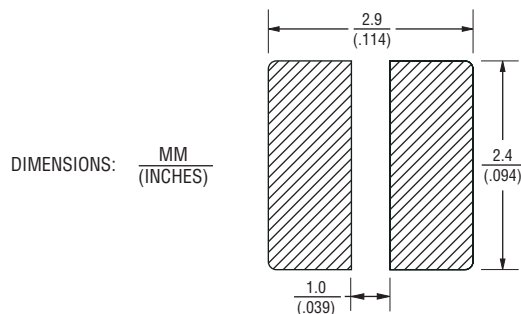
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 1 MHz / 1 V		SRF (MHz) Ref.	DCR (Ω) Typ.	DCR (Ω) Max.	I rms (A) Typ.	I sat (A) Typ.
	L (μH)	Tol. %					
SRN2510F-R24M	0.24	± 20 %	180	0.018	0.022	5.5	9.5
SRN2510F-R33M	0.33	± 20 %	150	0.023	0.028	5.3	8.0
SRN2510F-R47M	0.47	± 20 %	120	0.027	0.035	4.6	7.0
SRN2510F-R68M	0.68	± 20 %	90	0.032	0.040	4.2	5.5
SRN2510F-1R0M	1.00	± 20 %	60	0.044	0.053	3.5	4.9
SRN2510F-1R5M	1.50	± 20 %	55	0.062	0.074	3.2	3.8
SRN2510F-2R2M	2.20	± 20 %	40	0.078	0.093	2.6	2.8
SRN2510F-3R3M	3.30	± 30 %	30	0.125	0.150	2.0	2.1
SRN2510F-4R7M	4.70	± 20 %	20	0.180	0.216	1.7	1.7

Product Dimensions



Recommended Layout



General Specifications

Operating Temperature
-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature
-40 °C to +125 °C
 Rated Current
 Inductance drops 30 % at Isat
 Temperature Rise40 °C at rated Irms
 MSL 1
 ESD Classification (HBM)..... N/A

Materials

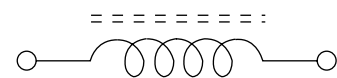
Core Metal alloy
 Wire Enameled copper
 Terminal Finish Sn
 Coating Magnetic epoxy resin
 Packaging 2000 pcs. per 7-inch reel

How to Order

SRN2510F - R33M

Model _____
 Value Code (see table) _____

Schematic



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 Email: eurocus@bourns.com

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 Email: americus@bourns.com

www.bourns.com

* 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.

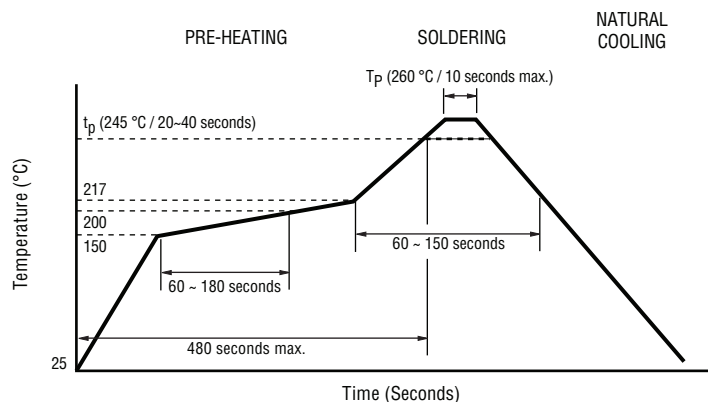
Users should verify actual device performance in their specific applications.

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SRN2510F Series – Semi-Shielded Power Inductors

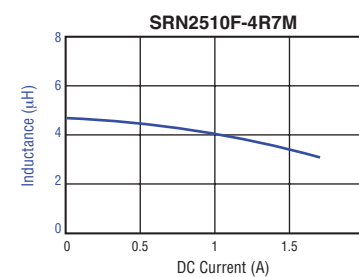
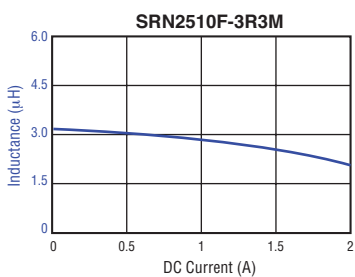
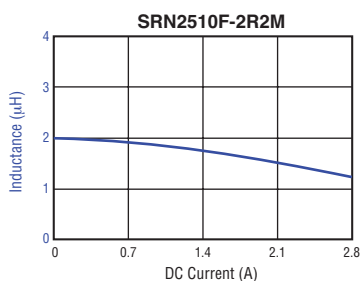
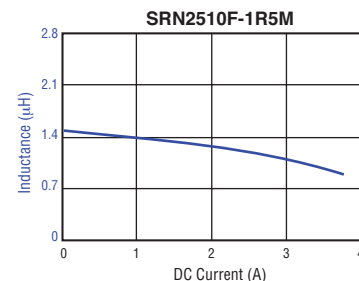
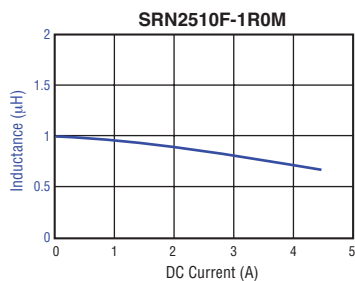
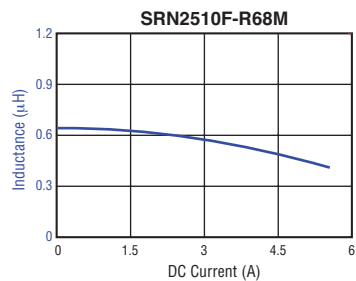
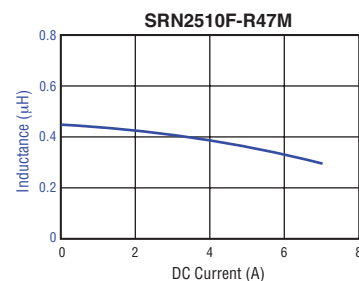
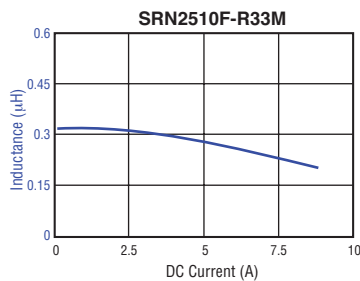
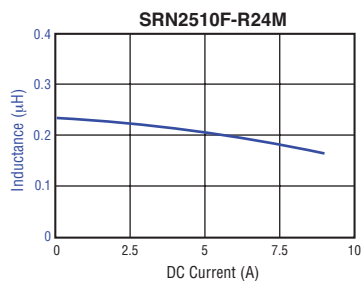


Soldering Profile



REFLOW TIMES: 3 MAX.

L vs. I Charts



Specifications are subject to change without notice.

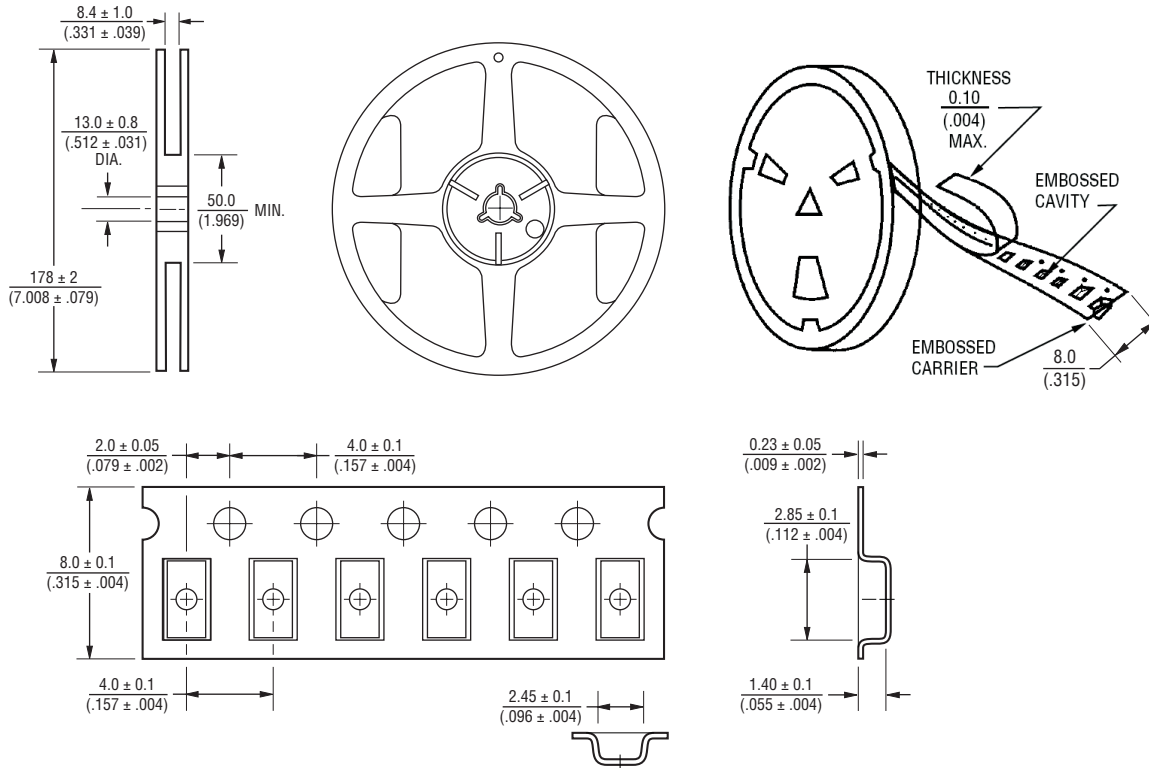
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SRN2510F Series – Semi-Shielded Power Inductors

BOURNS®

Packaging Specifications



USER DIRECTION OF FEED 
 QTY: 2,000 PCS PER REEL

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

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