

Features

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

Applications

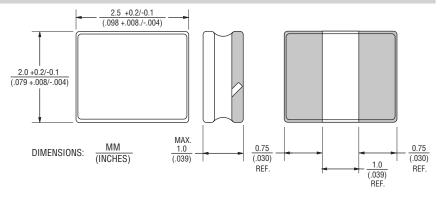
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- TV, LCD displays

SRN2510F Series - Semi-Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns	Inductance @ 1 MHz / 1 V		SRF (MHz)	DCR (Ω)	DCR (Ω)	I rms (A)	I sat (A)
Part Number	L (μH)	Tol. %	Ref.	Typ.	Max.	Typ.	Typ.
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	± 20 %	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



General Specifications

Operating Temperature

.....-40 °C to +125 °C (Temperature rise included)

Storage Temperature

Rated Current

Materials

CoreMetal alloy WireEnameled copper Terminal FinishSn CoatingMagnetic epoxy resin Packaging2000 pcs. per 7-inch reel

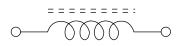
How to Order

Value Code (see table)

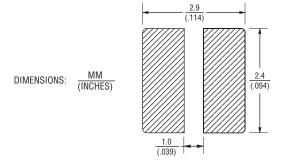
SRN2510F - R33M

Schematic

Model



Recommended Layout



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WARNING Cancer and Reproductive Harm - $\underline{www.P65Warnings.ca.gov}$

- 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.

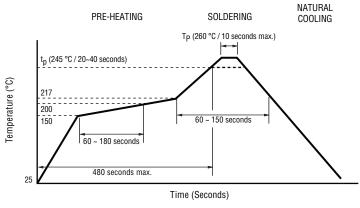
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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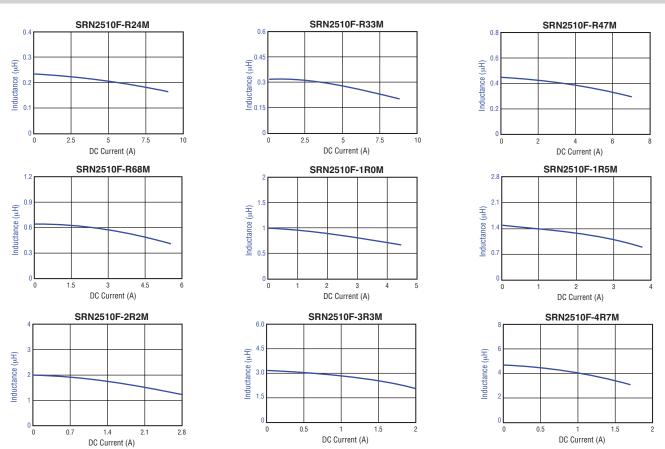
SRN2510F Series – Semi-Shielded Power Inductors

Soldering Profile



REFLOW TIMES: 3 MAX.

L vs. I Charts



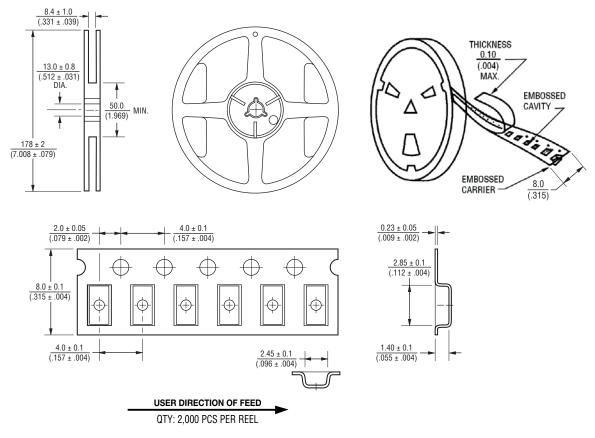
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SRN2510F Series – Semi-Shielded Power Inductors

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Packaging Specifications



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

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