

#### **Features**

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

## **Applications**

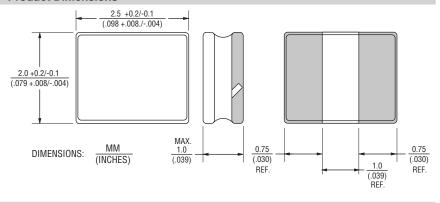
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- TV, LCD displays

# 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	± 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**



#### **General Specifications**

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

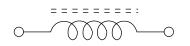
Storage Temperature .....-40 °C to +125 °C

Rated Current

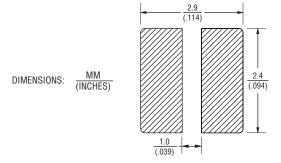
#### **Materials**

#### **How to Order**

#### Schematic



#### **Recommended Layout**



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Specifications are subject to change without notice.

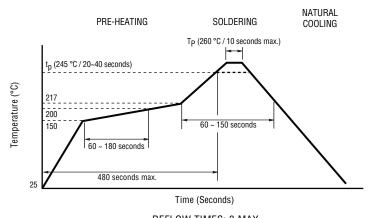
Users should verify actual device performance in their specific applications.

<sup>\*</sup> RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

<sup>\*\*</sup>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.

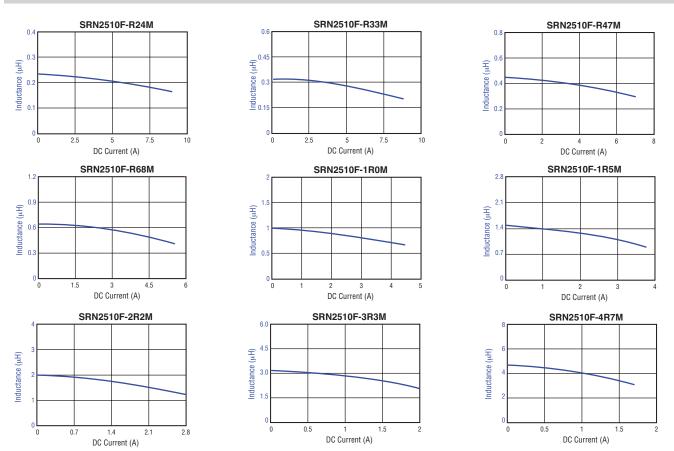
# SRN2510F Series – Semi-Shielded Power Inductors **BOURN**

### **Soldering Profile**



# REFLOW TIMES: 3 MAX.

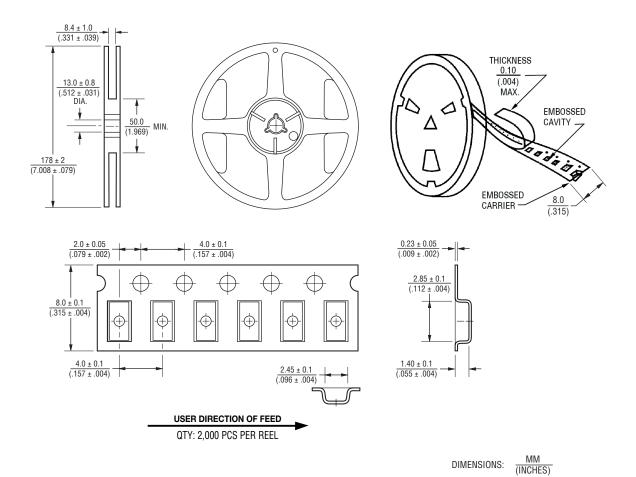
### L vs. I Charts



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# SRN2510F Series - Semi-Shielded Power Inductors **BOURNS**

## **Packaging Specifications**



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