

## **Features**

- Semi-shielded construction
- High rated current
- Component height 4.5 mm
- Inductance range: 1 to 220 µH
- Rated current up to 4.2 A
- RoHS compliant\* and halogen free\*\*

### **Applications**

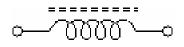
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

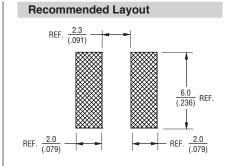
# SRN6045 Series - Semi-shielded Power Inductors

#### Electrical Specifications @ 25 °C

	Inductance @ 100 KHz/1 V		Q	Test Freq.	SRF (MHz)	DCR (Ω)	Irms	Isat
Bourns Part No.	L (μΗ)	Tol. %	(Ref.)	(MHz)	Typ.	Max.	(A)	(A)
SRN6045-1R0Y	1.0	30	15	7.96	50	0.0139	4.2	8.5
SRN6045-1R3Y	1.3	30	15	7.96	48	0.017	4.0	8.0
SRN6045-1R8Y	1.8	30	15	7.96	38	0.0198	3.7	7.0
SRN6045-2R2Y	2.2	30	15	7.96	35	0.0251	3.5	6.0
SRN6045-3R3Y	3.3	30	15	7.96	27	0.0302	3.2	5.0
SRN6045-4R7Y	4.7	30	15	7.96	22	0.0376	3.0	4.0
SRN6045-6R8Y	6.8	30	15	7.96	20	0.0473	2.8	3.8
SRN6045-8R2Y	8.2	30	15	7.96	18	0.055	2.7	3.3
SRN6045-100M	10	20	17	2.52	15	0.0586	2.5	3.0
SRN6045-150M	15	20	17	2.52	13	0.0958	1.9	2.3
SRN6045-220M	22	20	17	2.52	11	0.142	1.5	1.9
SRN6045-330M	33	20	17	2.52	9	0.188	1.4	1.5
SRN6045-470M	47	20	13	2.52	7	0.257	1.1	1.3
SRN6045-680M	68	20	13	2.52	6	0.351	0.9	1.0
SRN6045-101M	100	20	22	0.796	5	0.494	0.7	0.8
SRN6045-221M	220	20	25	0.796	4	1.18	0.6	0.7

#### **Electrical Schematic**





#### **General Specifications**

**Operating Temperature** 

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

Storage Temperature (Component) .....-40 °C to +125 °C Resistance to Solder Heat

.....+250 °C for 10 sec. Temperature Rise .....40 °C at rated Irms Rated Current

..... Inductance drops 30 % at Isat Moisture Sensitivity Level ...... 1 ESD Classification (HBM).....N/A

#### **Materials**

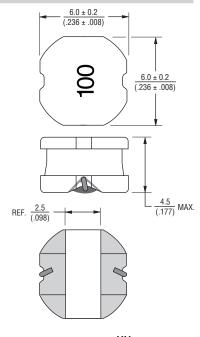
Core	Ferrite
Wire	Enameled copper
Terminal Finish	Sn/Ag/Cu
Coating	Magnetic epoxy resin
Packaging 100	00 pcs. per 13-inch reel

#### How to Order

#### SRN6045 - 100M

Model -Value Code (see table)

#### **Product Dimensions**



MM DIMENSIONS: (INCHES)

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

RoHS Directive 2015/863, Mar 31, 2015 and Annex.

\*\* 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.

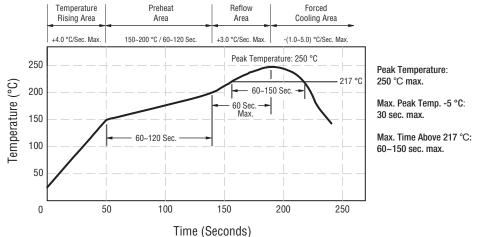
Users should verify actual device performance in their specific applications.

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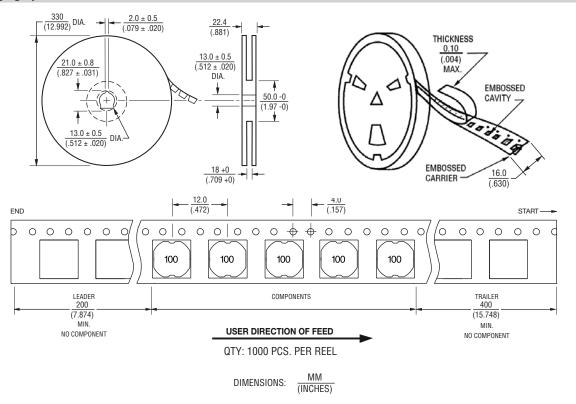
## SRN6045 Series - Semi-shielded Power Inductors

## BOURNS

#### **Soldering Profile**



#### **Packaging Specifications**



#### REV. 01/20

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