

### **Features**

- Semi-shielded construction
- Component height: 2 mm max.
- Inductance range: 1 to 33 µH
- High rated current up to 3.6 A
- RoHS compliant\* and halogen free\*\*

## **Applications**

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

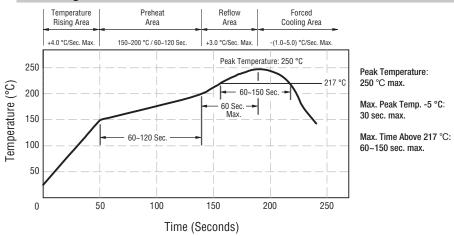
## **SRN5020 Series - Semi-shielded Power Inductors**

0.80

Electrical Specifications @ 25 °C								
	Inductance @ 100 KHz/1 V		Q	Test Freg.	SRF (MHz)	DCR (Ω)	Irms	Isat
Bourns Part No.	<b>L (μH)</b>	Tol. %	(Ref.)	(MHz)	Typ.	Max.	(A)	(A)
SRN5020-1R0Y	1.0	30	13	7.96	85	0.025	3.60	4.00
SRN5020-1R5Y	1.5	30	13	7.96	60	0.031	3.20	3.35
SRN5020-2R2Y	2.2	30	11	7.96	50	0.042	2.90	2.90
SRN5020-3R3M	3.3	20	11	7.96	40	0.058	2.40	2.40
SRN5020-4R7M	4.7	20	11	7.96	30	0.072	2.0	2.00
SRN5020-5R6M	5.6	20	11	7.96	28	0.106	1.80	1.80
SRN5020-6R8M	6.8	20	11	7.96	23	0.108	1.65	1.60
SRN5020-100M	10	20	11	2.52	21	0.144	1.45	1.30
SRN5020-150M	15	20	14	2.52	15	0.198	1.20	1.10
SRN5020-220M	22	20	11	2.52	13	0.312	1.00	0.90

#### **Soldering Profile**

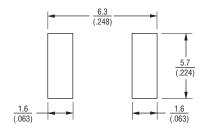
SRN5020-330M



#### Electrical Schematic



### **Recommended Layout**



### **General Specifications**

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

+260 °C for 10 sec.
Temperature Rise .....40 °C at rated Irms

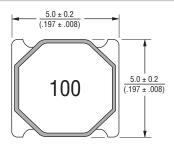
### **Materials**

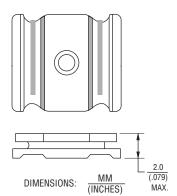
Core ......Ferrite
Wire ......Enameled copper
Terminal Finish ......Sn/Ag/Cu
Coating .....Magnetic epoxy resin
Packaging ..... 2000 pcs. per 13-inch reel

#### **How to Order**

SRN5020 - 100M Model — Value Code (see table) —

## **Product Dimensions**







\* 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 (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

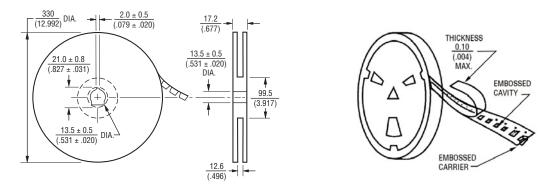
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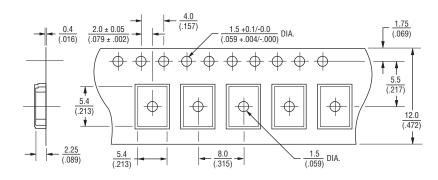
WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

# SRN5020 Series - Semi-shielded Power Inductors

## BOURNS

### **Packaging Specifications**





USER DIRECTION OF FEED

QTY: 2000 PCS. PER REEL

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

## **BOURNS**®

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

**EMEA:** Tel: +36 88 520 390 • Fax: +36 88 520 211

**The Americas:** Tel: +1-951 781-5500 • Fax: +1-951 781-5700

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REV. 09/17

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