



## Features

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

## Applications

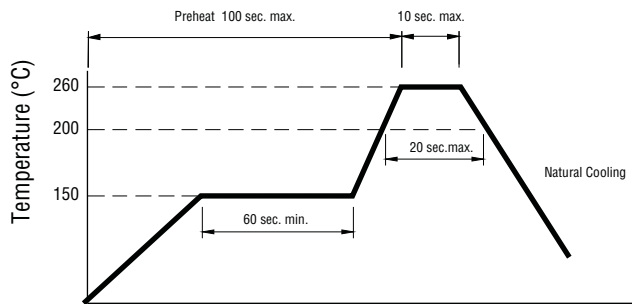
- DC/DC converters
- Notebook computers
- Digital video cameras
- Televisions, LCD displays

# SRN5020 Series - Semi-shielded Power Inductors

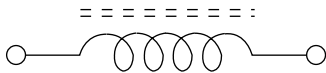
### Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 KHz/1 V		DCR ( $\Omega$ ) Max.	I <sub>rms</sub> (A)	I <sub>sat</sub> (A)
	L ( $\mu$ H)	Tol. %			
SRN5020-1R0Y	1.0	30	0.025	3.60	4.00
SRN5020-1R5Y	1.5	30	0.031	3.20	3.35
SRN5020-2R2Y	2.2	30	0.042	2.90	2.90
SRN5020-3R3M	3.3	20	0.058	2.40	2.40
SRN5020-4R7M	4.7	20	0.072	2.0	2.00
SRN5020-5R6M	5.6	20	0.106	1.80	1.80
SRN5020-6R8M	6.8	20	0.108	1.65	1.60
SRN5020-100M	10	20	0.144	1.45	1.30
SRN5020-150M	15	20	0.198	1.20	1.10
SRN5020-220M	22	20	0.312	1.00	0.90
SRN5020-330M	33	20	0.516	0.90	0.80

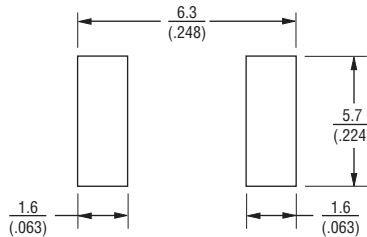
### Soldering Profile



### Electrical Schematic



### Recommended Layout



### General Specifications

Operating Temperature  
 ..... -25 °C to +120 °C  
 (Temperature rise included)  
 Storage Temperature .. -25 °C to +120 °C  
 Resistance to Solder Heat  
 ..... +260 °C for 10 sec.  
 Temperature Rise .....40 °C at rated I<sub>rms</sub>  
 Rated Current  
 ..... Inductance drops 30 % at I<sub>sat</sub>

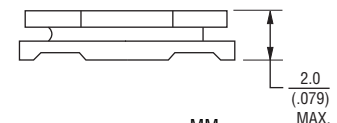
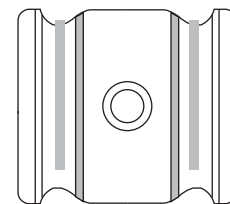
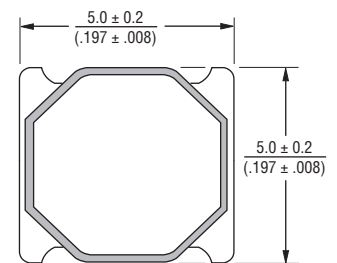
### Materials

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

### How to Order

**SRN5020 - 100M**  
 Model \_\_\_\_\_  
 Value Code (see table) \_\_\_\_\_

### Product Dimensions



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

\* RoHS Directive 2002/95/EC Jan 27, 2003 including Annex.

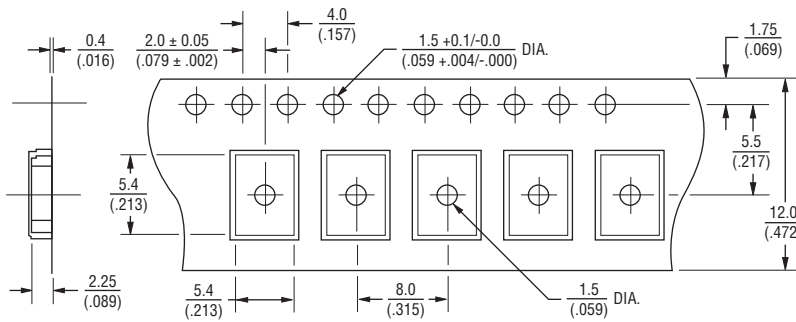
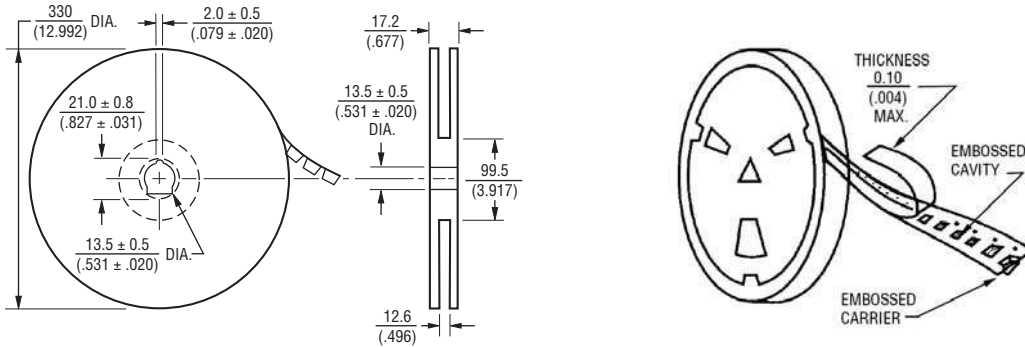
\*\* Bourns follows the prevailing definition of "halogen free" in the industry. Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice.  
 Customers should verify actual device performance in their specific applications.

# SRN5020 Series - Semi-shielded Power Inductors

**BOURNS®**

## Packaging Specifications



USER DIRECTION OF FEED →

QTY: 2000 PCS. PER REEL

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

**BOURNS®**

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