



## 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

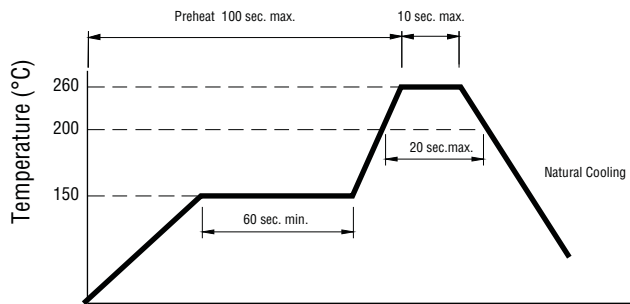
- DC/DC converters
- Notebook computers
- Digital video cameras
- Televisions, LCD displays

# SRN5020 Series - Semi-shielded Power Inductors

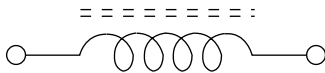
### Electrical Specifications @ 25 °C

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

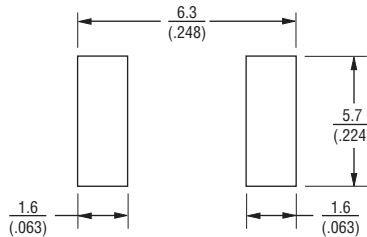
### Soldering Profile



### 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>

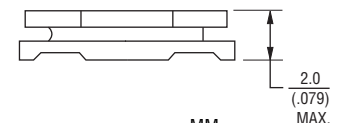
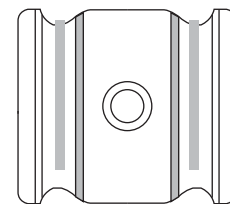
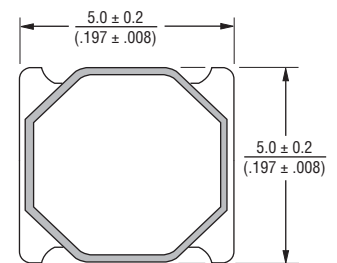
### Materials

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.

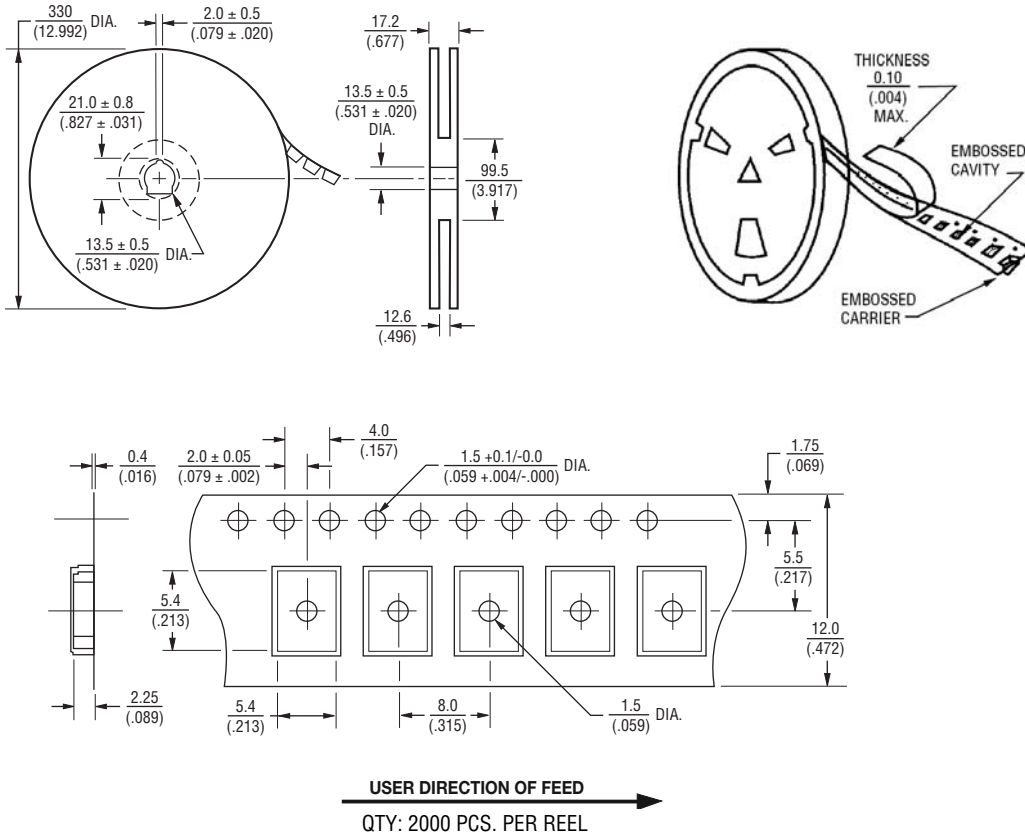
\*\* Bourns follows the prevailing definition of "halogen free" in the industry. Bourns considers a product to be "halogen free" if (a) the Bromine (Br ) content is 900 ppm or less; (b) the Chlorine ( Cl ) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine ( Cl ) content is 1500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



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

**BOURNS®**

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