



### Features

- Semi-shielded construction
- High inductance
- Inductance range: 10 to 470  $\mu$ H
- High rated current - up to 5.4 A
- RoHS compliant\* and halogen free\*\*

### Applications

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

## SRN1060 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. %			
SRN1060-100M	10	20	0.029	5.40	5.20
SRN1060-180M	18	20	0.043	3.85	3.80
SRN1060-220M	22	20	0.053	3.40	3.40
SRN1060-330M	33	20	0.072	3.15	2.80
SRN1060-470M	47	20	0.11	2.50	2.30
SRN1060-101M	100	20	0.21	1.70	1.70
SRN1060-151M	150	20	0.30	1.25	1.35
SRN1060-221M	220	20	0.46	1.00	1.20
SRN1060-331M	330	20	0.62	0.90	0.90
SRN1060-471M	470	20	0.95	0.80	0.80

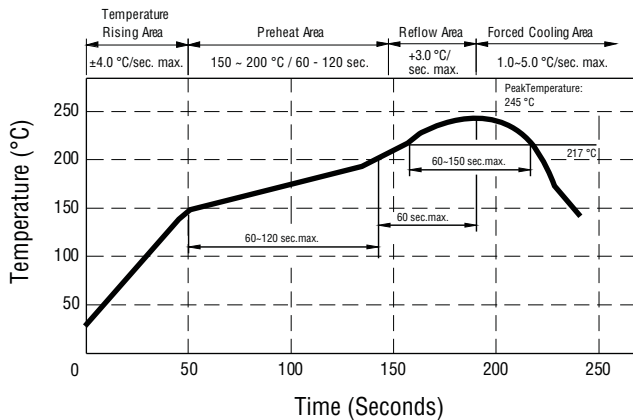
### General Specifications

Operating Temperature ..... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature .. -40 °C to +125 °C  
 Resistance to Solder Heat ..... +245 °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/Ag/Cu  
 Coating ..... Magnetic epoxy resin  
 Packaging ..... 650 pcs. per 13-inch reel

### Soldering Profile

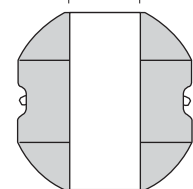
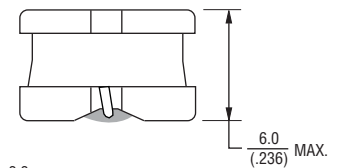
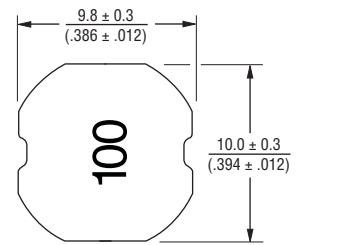


Peak Temperature: 245 °  $\pm 5$  °C max., 30 sec. max.  
 Maximum Time Above 217 °C: 60-150 seconds

### How to Order

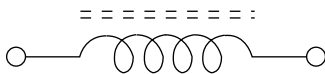
Model SRN1060 - 100M  
 Value Code (see table) \_\_\_\_\_

### Product Dimensions

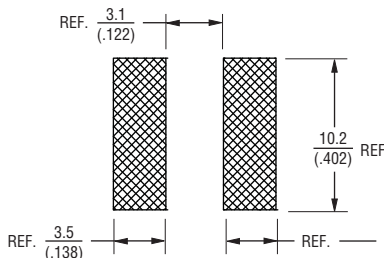


DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

### Electrical Schematic



### Recommended Layout



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

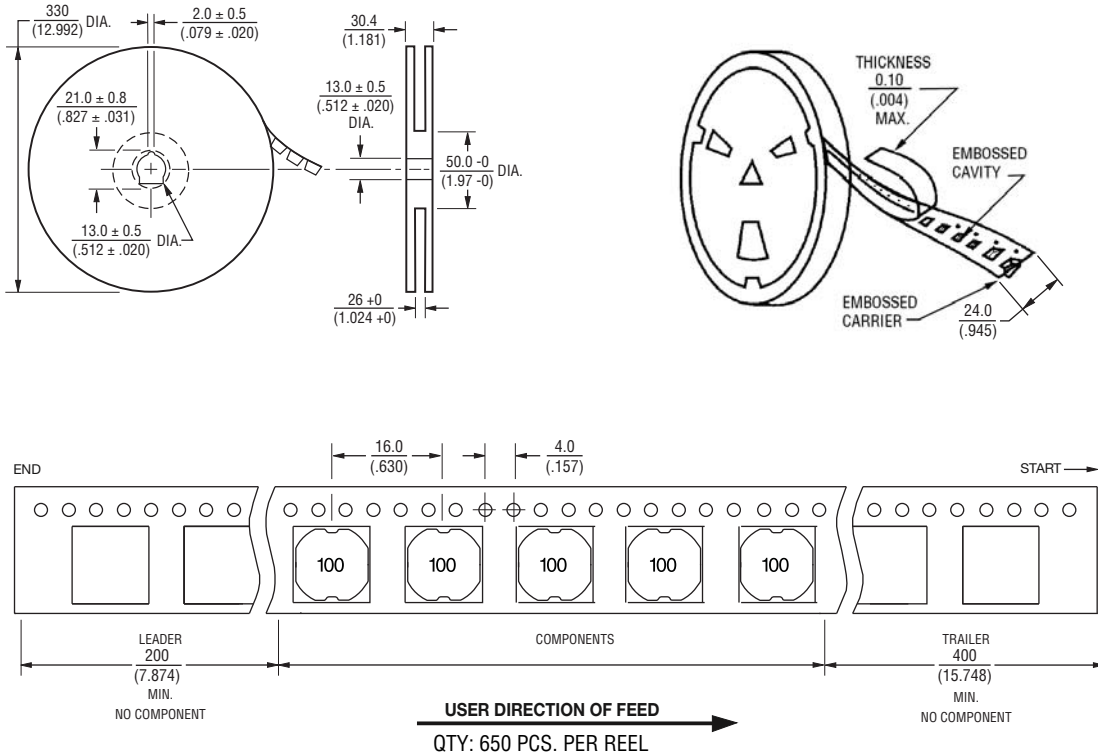
\*\*Bourns follows the prevailing definition of "halogen free" in the industry. Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less. Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

# SRN1060 Series - Semi-shielded Power Inductors

**BOURNS®**

## Packaging Specifications



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

**BOURNS®**

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

Europe: Tel: +41-41 768 5555 • Fax: +41-41 768 5510

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

[www.bourns.com](http://www.bourns.com)

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