



Features

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

Applications

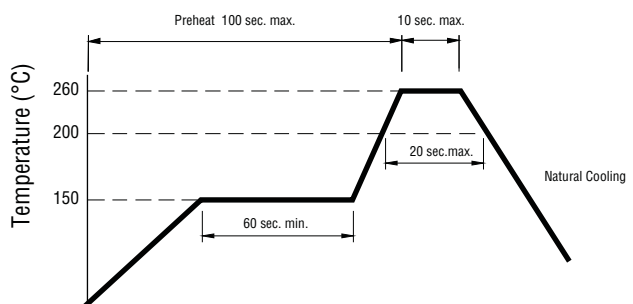
- DC/DC converters
- Notebook computers
- Digital video cameras
- Televisions, LCD displays

SRN5020 Series - Semi-shielded Power Inductors

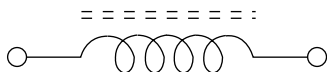
Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 KHz/1 V		DCR (Ω) Max.	I _{rms} (A)	I _{sat} (A)
	L (μ 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

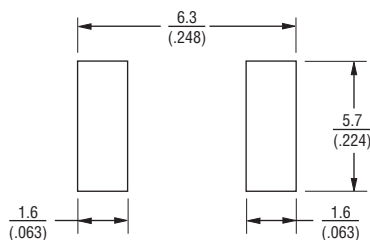
Soldering Profile



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_{rms}
Rated Current Inductance drops 30 % at I_{sat}

Materials

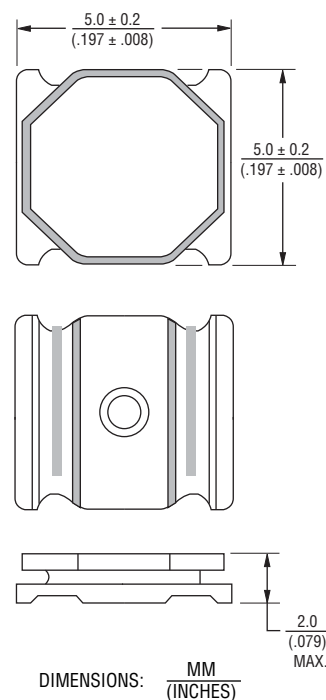
Core Ferrite
Wire Enameled copper
Terminal Finish Sn
Coating Magnetic epoxy resin
Packaging 2000 pcs. per 13-inch reel

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.

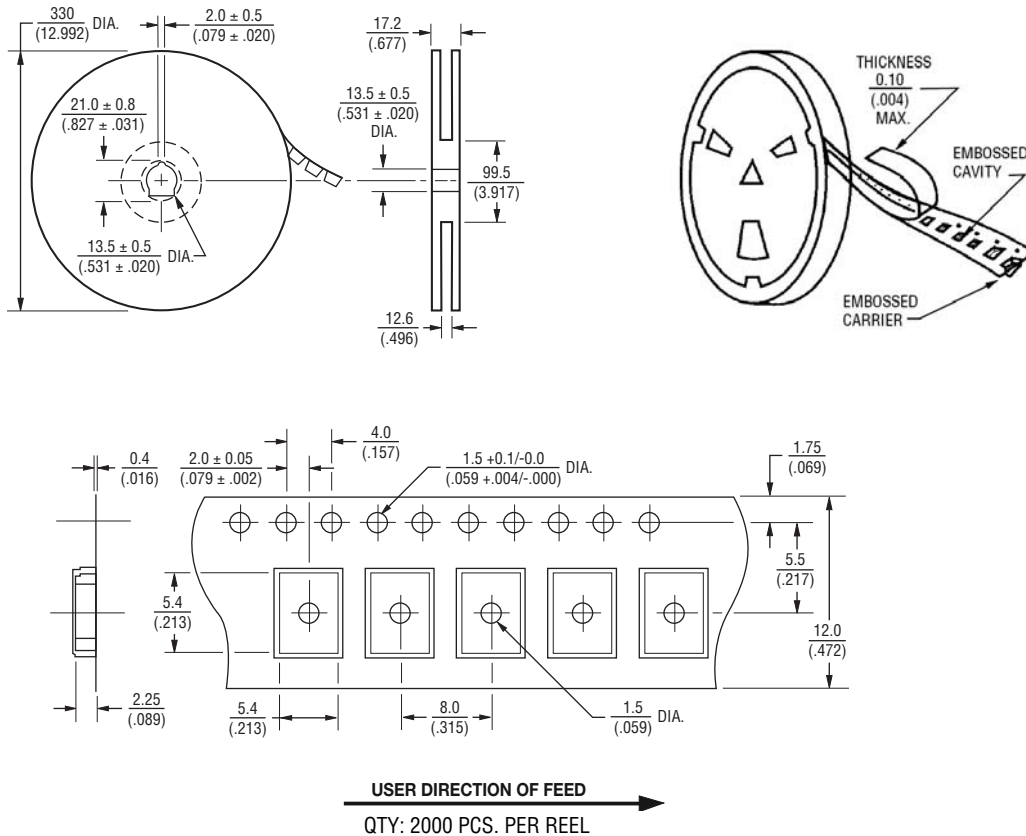
Specifications are subject to change without notice.

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®

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