

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

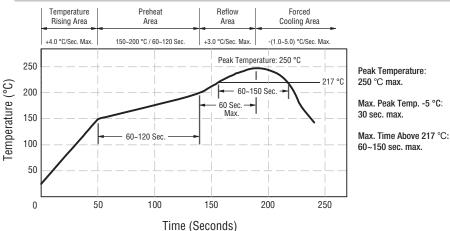
SRN5020 Series - Semi-shielded Power Inductors

Televisions, LCD displays

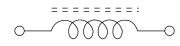
Electrical Specifications @ 25 °C

	Inductance @ 100 KHz/1 V		Q	Test Freg.	SRF (MHz)	DCR (Ω)	Irms	Isat
Bourns Part No.	L (μΗ)	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
SRN5020-330M	33	20	11	2.52	10	0.516	0.90	0.80

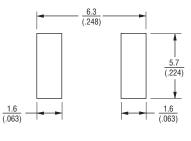
Soldering Profile



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 Rise40 °C at rated Irms Rated Current

..... Inductance drops 30 % at Isat Moisture Sensitivity Level 1 ESD Classification (HBM).....N/A

Materials

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

How to Order

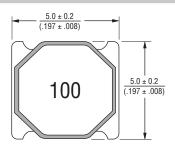
SRN5020 - 100M

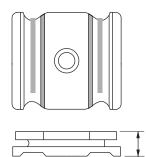
2.0 (.079)

MAX

Model -Value Code (see table)

Product Dimensions





DIMENSIONS:

MM

(INCHES)



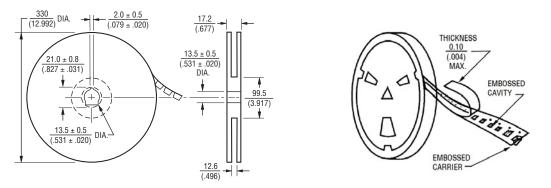
- * RoHS Directive 2015/863, Mar 31, 2015 and Annex.
 - Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less.

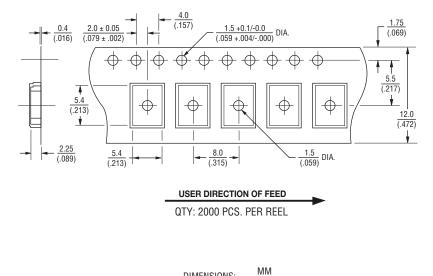
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SRN5020 Series - Semi-shielded Power Inductors

BOURNS

Packaging Specifications





DIMENSIONS: MM (INCHES)

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