

*RoHS COMPLIANT



BOURNS®

Features

- Semi-shielded construction
- Miniature size
- Low profile - 1.0 mm max.
- Inductance range: 1 to 47 μ H
- Rated current up to 2.3 A
- RoHS compliant* and halogen free**

Applications

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

SRN3010 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. %			
SRN3010-1R0Y	1.0	30	0.063	2.3	2.3
SRN3010-1R2Y	1.2	30	0.081	2.1	1.9
SRN3010-1R5Y	1.5	30	0.091	2.0	1.65
SRN3010-2R2M	2.2	20	0.096	1.9	1.3
SRN3010-3R3M	3.3	20	0.156	1.8	1.05
SRN3010-4R7M	4.7	20	0.210	1.7	0.85
SRN3010-6R8M	6.8	20	0.312	1.3	0.7
SRN3010-100M	10	20	0.420	0.9	0.6
SRN3010-150M	15	20	0.612	0.8	0.5
SRN3010-220M	22	20	0.936	0.7	0.4
SRN3010-330M	33	20	1.320	0.5	0.32
SRN3010-470M	47	20	1.920	0.35	0.28

General Specifications

Operating Temperature -40 °C to +125 °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

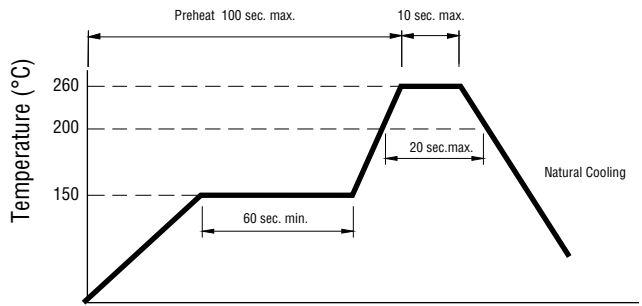
Core Ferrite
 Wire Enameled copper
 Terminal Finish Sn
 Coating Magnetic epoxy resin
 Packaging 2000 pcs. per 7-inch reel

How to Order

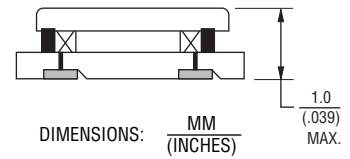
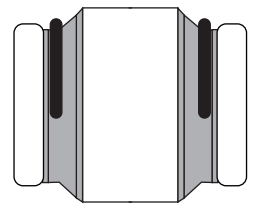
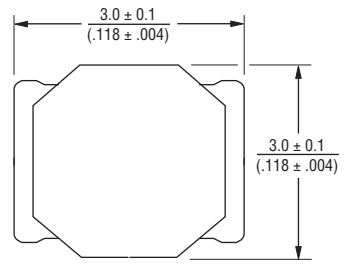
SRN3010 - 100M

Model _____
 Value Code (see table) _____

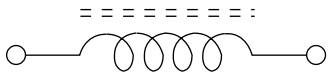
Soldering Profile



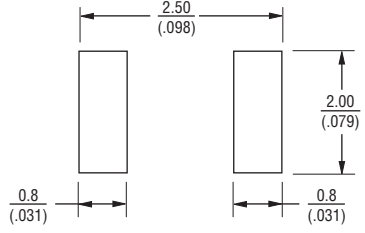
Product Dimensions



Electrical Schematic



Recommended Layout

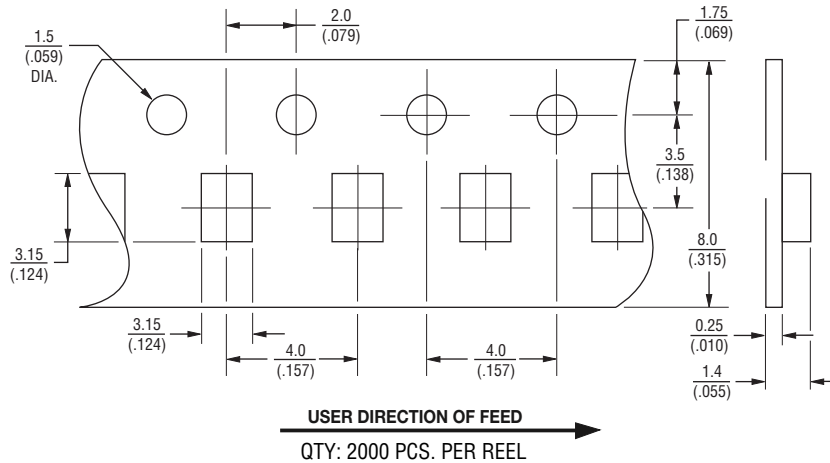
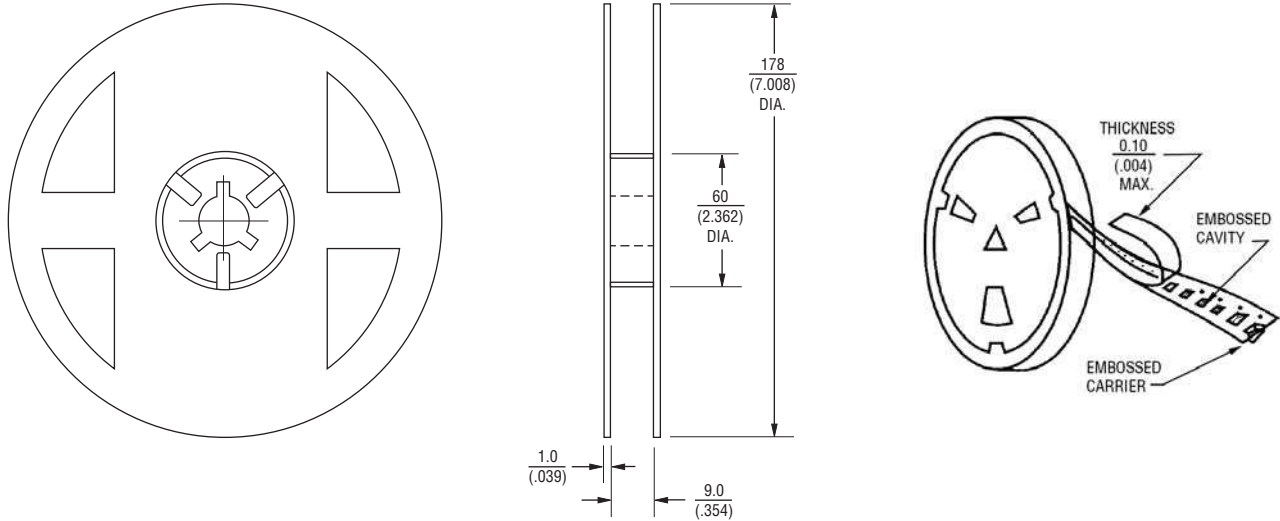


* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 ** Bourns follows the prevailing definition of "halogen free" in the industry. Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) 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.

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BOURNS®

Packaging Specifications



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

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