

Features

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

Applications

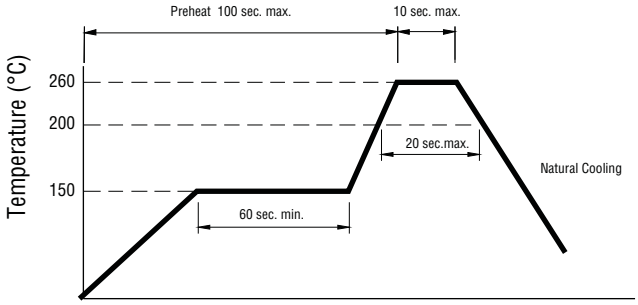
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

SRN3010 Series - Semi-shielded Power Inductors

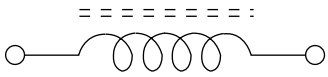
Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 KHz / 1 V		DCR (Ω) Max.	Irms (A)	Isat (A)
	L (µH)	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

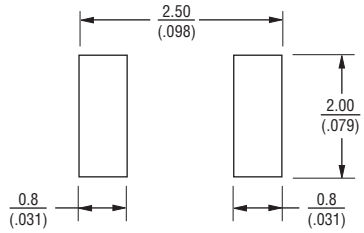
Soldering Profile



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 Irms
Rated Current
..... Inductance drops 30 % at Isat

Materials

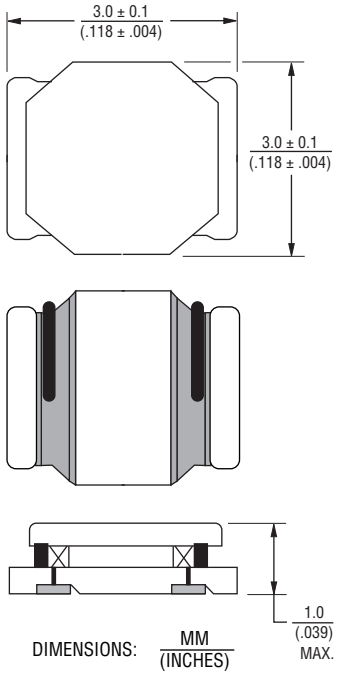
Core.....Ferrite
Wire .....Enameled copper
Terminal Finish .....Sn
Coating .....Magnetic epoxy resin
Packaging..... 2000 pcs. per 7-inch reel

How to Order

SRN3010 - 100M

Model
Value Code (see table)

Product Dimensions

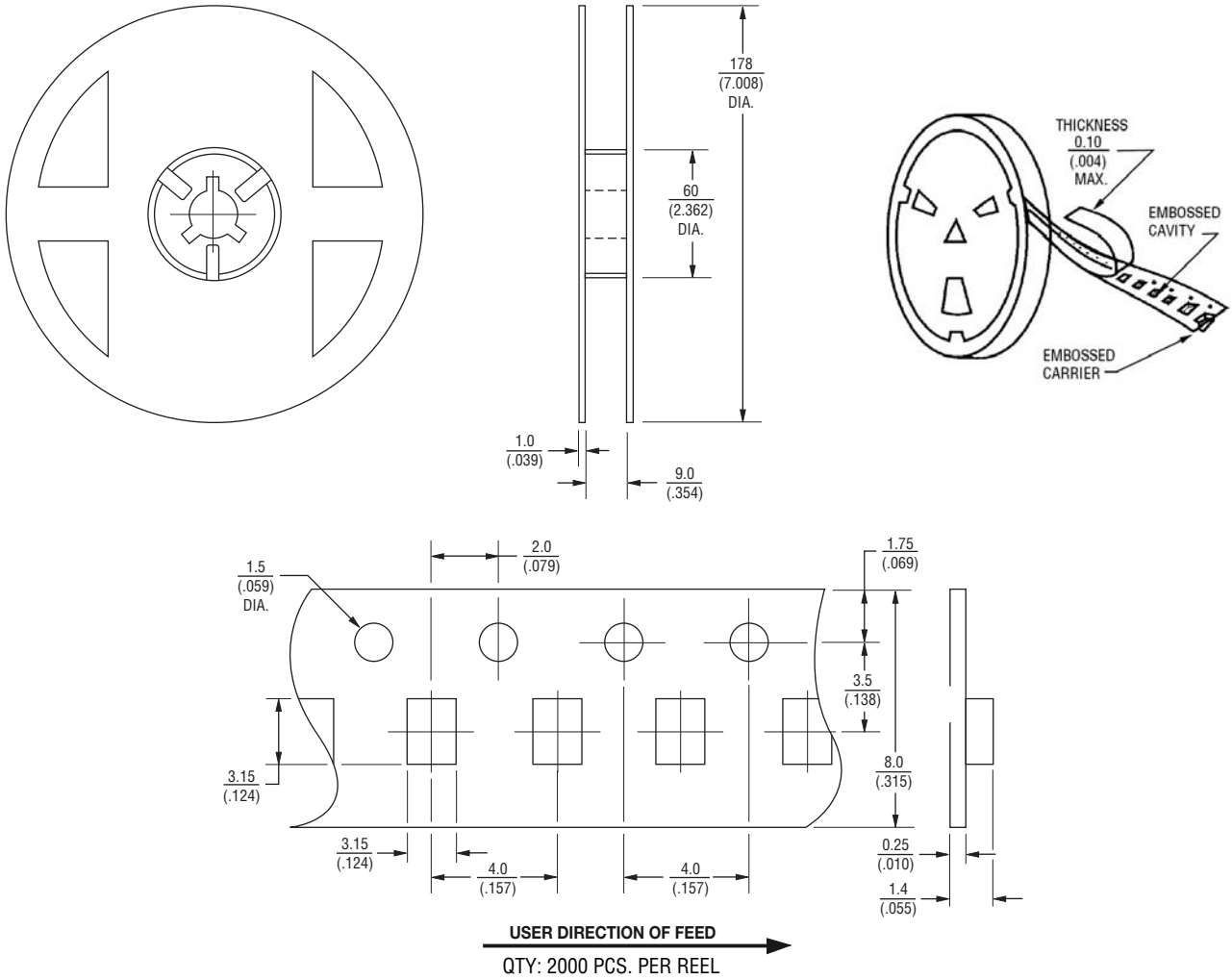


* RoHS Directive 2002/95/EC Jan 27, 2003 including Annex.

** 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.

Packaging Specifications



DIMENSIONS: MM / (INCHES)

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