

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

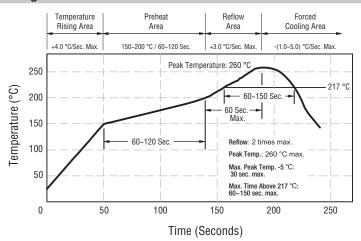
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

SRN3010 Series - Semi-shielded Power Inductors

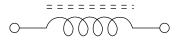
Electrical Specifications @ 25 °C

	Inductance @ 100 KHz / 1 V		Q	Test Freg.	SRF (MHz)	DCR (Ω)	Irms	Isat
Bourns Part No.	L (μ H)	Tol. %	(Ref.)	(MHz)	Typ.	Max.	(A)	(A)
SRN3010-1R0Y	1.0	30	7	7.96	140	0.063	2.3	2.3
SRN3010-1R2Y	1.2	30	7	7.96	130	0.081	2.1	1.9
SRN3010-1R5Y	1.5	30	7	7.96	110	0.091	2.0	1.65
SRN3010-2R2M	2.2	20	7	7.96	85	0.096	1.9	1.3
SRN3010-3R3M	3.3	20	7	7.96	70	0.156	1.8	1.05
SRN3010-4R7M	4.7	20	7	7.96	60	0.210	1.7	0.85
SRN3010-6R8M	6.8	20	7	7.96	50	0.312	1.3	0.7
SRN3010-100M	10	20	11	2.52	40	0.420	0.9	0.6
SRN3010-150M	15	20	11	2.52	30	0.612	0.8	0.5
SRN3010-220M	22	20	14	2.52	23	0.936	0.7	0.4
SRN3010-330M	33	20	14	2.52	20	1.320	0.5	0.32
SRN3010-470M	47	20	20	2.52	16	1.920	0.35	0.28

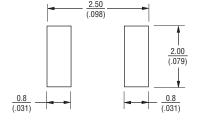
Soldering Profile



Electrical Schematic



Recommended Layout





WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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

**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. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

General Specifications

Operating Temperature

-40 °C to +125 °C (Temperature rise included)

Storage Temperature (Component)-40 °C to +125 °C

Resistance to Solder Heat

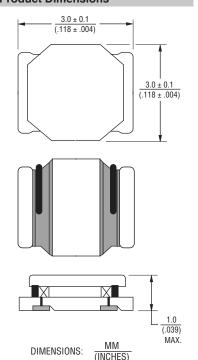
.....+260 °C for 10 sec. Temperature Rise40 °C at rated Irms Rated Current

Materials

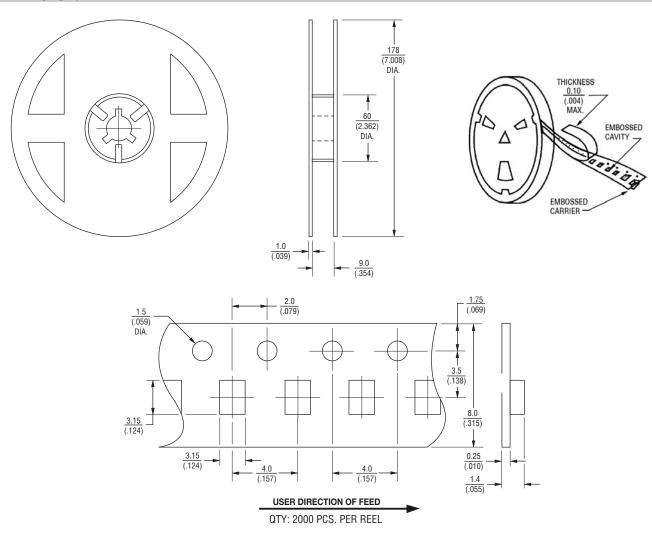
CoreFerrite
WireEnameled copper
Terminal FinishSn/Ag/Cu
CoatingMagnetic epoxy resin
Packaging2000 pcs. per 7-inch reel

How to Order

Product Dimensions



Packaging Specifications



MM DIMENSIONS: (INCHES)

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<u>SRN3010-4R7M SRN3010-100M SRN3010-330M SRN3010-1R0Y SRN3010-1R2Y SRN3010-6R8M SRN3010-</u>
1R5Y SRN3010-220M SRN3010-3R3M SRN3010-150M SRN3010-470M SRN3010-2R2M