



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

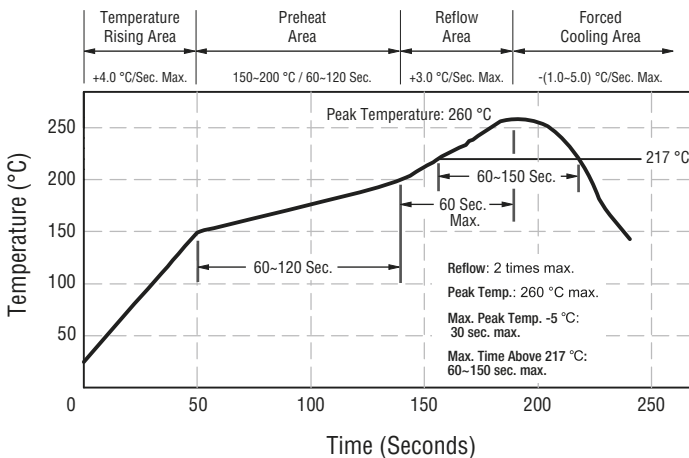
BOURNS®

SRN3010 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (Ω) Max.	I _{rms} (A)	I _{sat} (A)
	L (μ H)	Tol. %						
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



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 Rise 40 °C at rated I_{rms}
 Rated Current Inductance drops 30 % at I_{sat}
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

Materials

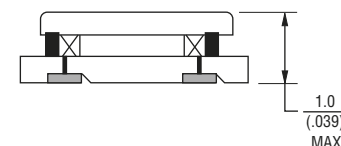
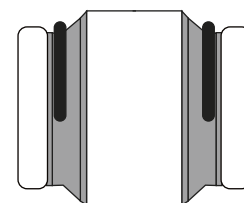
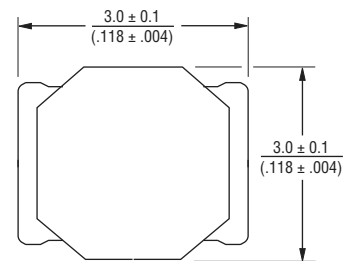
Core Ferrite
 Wire Enameled copper
 Terminal Finish Sn/Ag/Cu
 Coating Magnetic epoxy resin
 Packaging 2000 pcs. per 7-inch reel

How to Order

SRN3010 - 100M

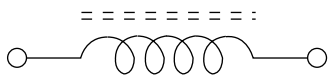
Model _____
 Value Code (see table) _____

Product Dimensions

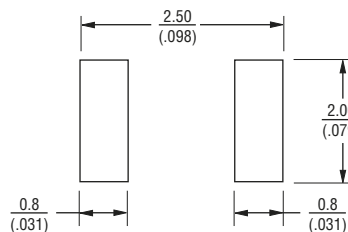


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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.
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