



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

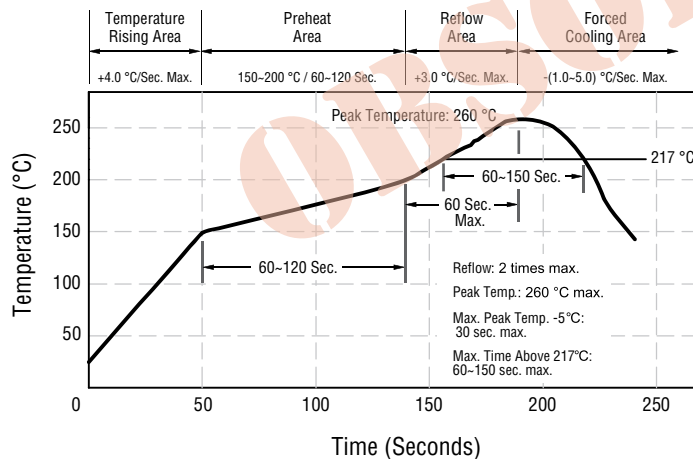
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

SRN3010 Series - Semi-shielded Power Inductors

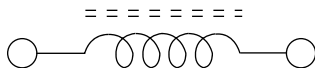
Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (Ω) Max.	Irms (A)	Isat (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

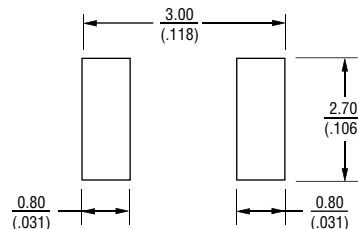
Soldering Profile



Electrical Schematic



Recommended Layout



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

* 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 (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.

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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

Coating.....Magnetic epoxy resin

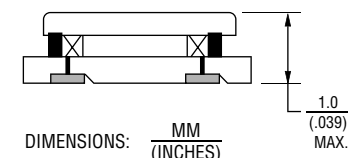
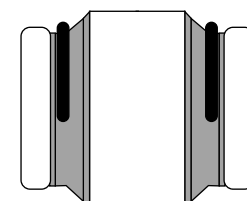
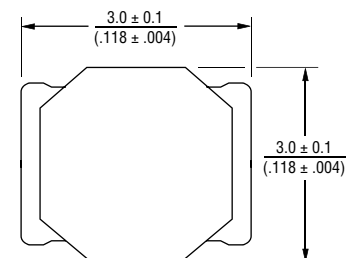
Packaging..... 2000 pcs. per 7-inch reel

How to Order

SRN3010 - 100M

Model _____
Value Code (see table) _____

Product Dimensions



BOURNS®

9.0
(.354)

178
(7.008)

60
(2.362)

1.0
(.039)

178
(7.008) DIA.

THICKNESS 0.10 MAX.
(.004)

EMBOSSED CAVITY

EMBOSSED CARRIER

1.75
(.069)

4.0
(.157)

4.0
(.157)

8.0
(.315)

3.50
(.138)

NO COMPONENT 80
(3.15) MIN.

COMPONENTS 4000
(157.48) MIN.

USER DIRECTION OF FEED

QTY: 2,000 PCS PER REEL

0.23
(.009)

5°

3.30
(.130)

1.40
(.055)

3.30
(.130)

8°

DIMENSIONS: MM
(INCHES)

BOTTOM VIEW

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

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Users should verify actual device performance in their specific applications.
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