

Features

- Semi-shielded construction
- Inductance range: 1 to 22 µH
- Rated current up to 2.1 A
- AEC-Q200 qualified
- Low profile: 1.0 mm max.
- RoHS compliant* and halogen free**

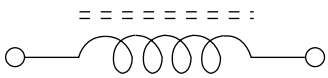
This series is currently available but not recommended for new designs. Contact factory for alternative product information.

SRN3010TA Series – Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 1 MHz / 0.1 V		Q @ 1 MHz Min.	SRF (MHz) Typ.	DCR (Ω) ±20 %	Irms (A) Typ.	Isat (A) Typ.
	L (µH)	Tol. %					
SRN3010TA-1R0Y	1.0	±30	10	170	0.055	2.1	1.8
SRN3010TA-1R5Y	1.5	±30	12	150	0.07	1.9	1.5
SRN3010TA-2R2M	2.2	±20	15	100	0.09	1.7	1.3
SRN3010TA-3R3M	3.3	±20	18	85	0.13	1.5	1.1
SRN3010TA-4R7M	4.7	±20	20	80	0.17	1.3	0.9
SRN3010TA-6R8M	6.8	±20	20	55	0.26	1	0.77
SRN3010TA-100M	10	±20	22	40	0.35	0.8	0.63
SRN3010TA-150M	15	±20	22	35	0.51	0.7	0.54
SRN3010TA-220M	22	±20	22	30	0.75	0.6	0.43

Electrical Schematic



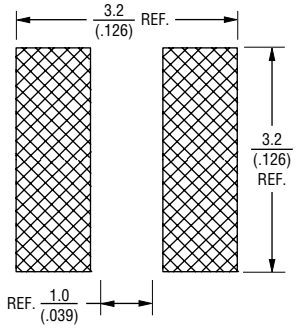
How to Order

SRN3010TA - 2R2M

Model

Value Code (see table)

Recommended Layout



DIMENSIONS: MM (INCHES)

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

General Specifications

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

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

Temperature Rise .....40 °C at rated Irms

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

Moisture Sensitivity Level 1

ESD Classification (HBM).....N/A

Materials

Core..... Ferrite

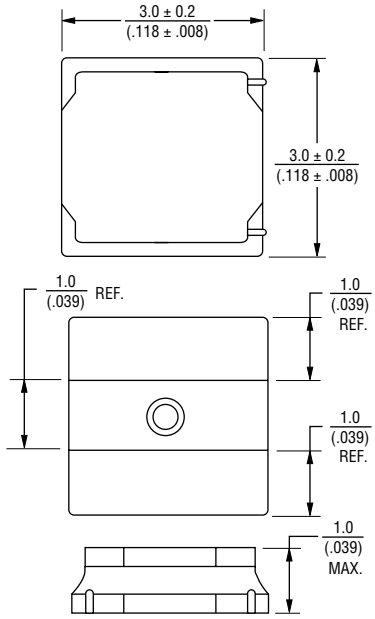
Wire .....Enameled copper

Terminal Finish ..... Sn

Coating .....Magnetic epoxy resin

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

Product Dimensions



DIMENSIONS: MM (INCHES)

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.

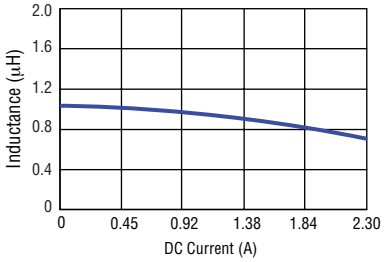
Users should verify actual device performance in their specific applications.

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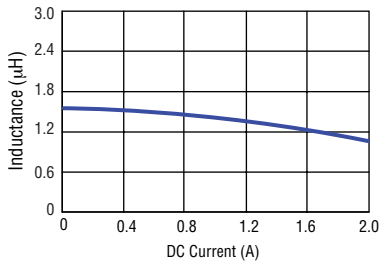
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Inductance vs. Current

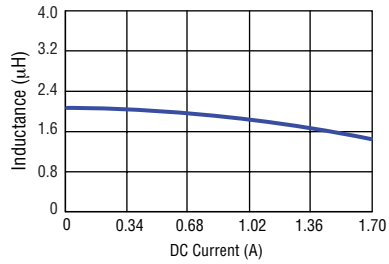
SRN3010TA-1R0Y



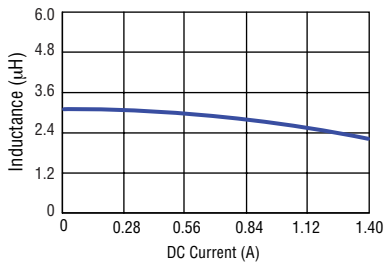
SRN3010TA-1R5Y



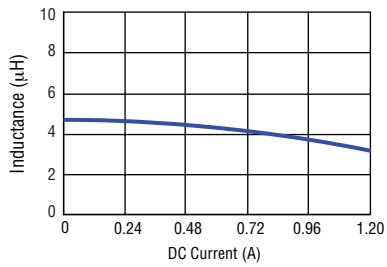
SRN3010TA-2R2M



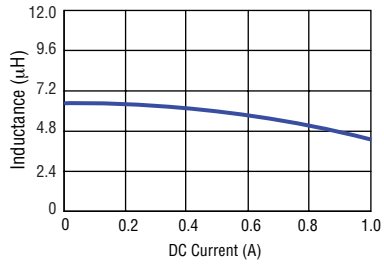
SRN3010TA-3R3M



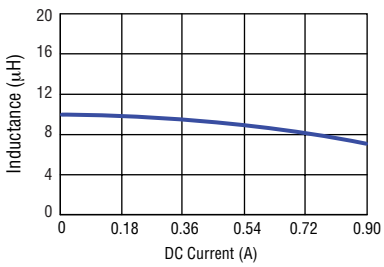
SRN3010TA-4R7M



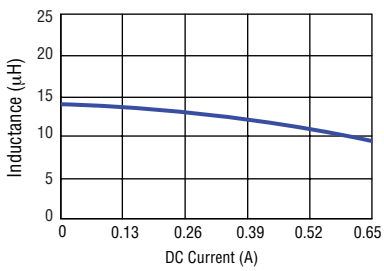
SRN3010TA-6R8M



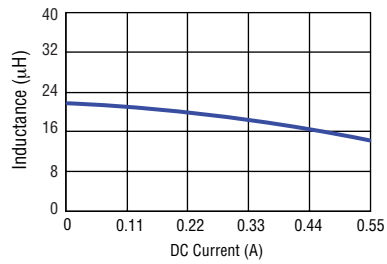
SRN3010TA-100M



SRN3010TA-150M



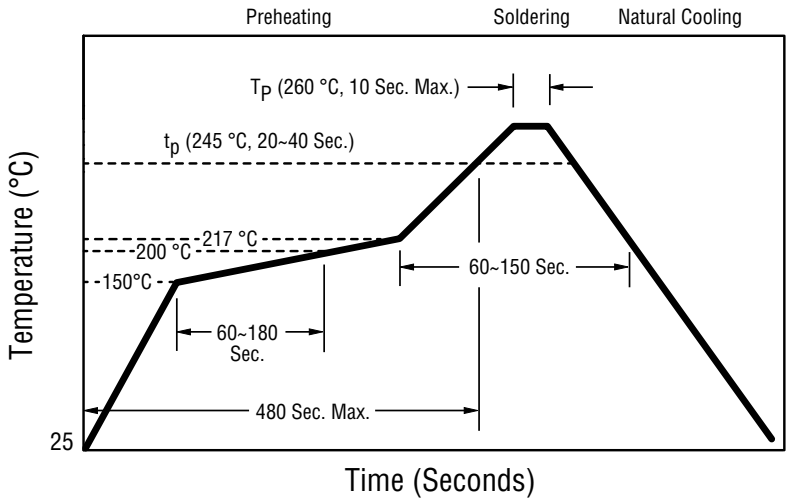
SRN3010TA-220M



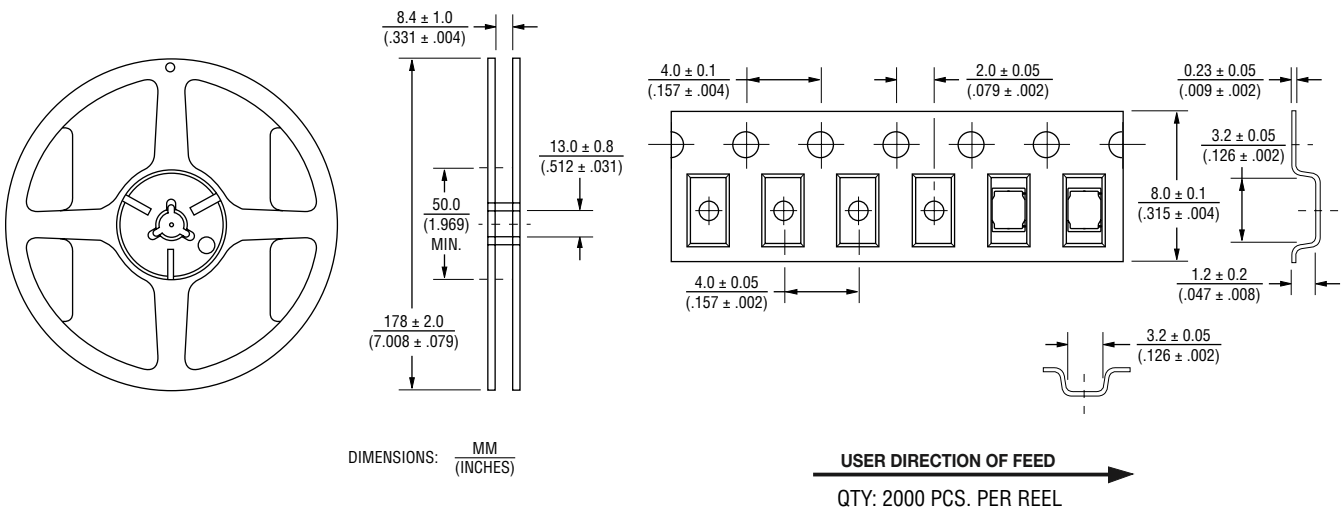
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Soldering Profile



Packaging Specifications



BOURNS®

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