




Features

- Semi-shielded construction
- Inductance range: 1 to 22 μ H
- Rated current up to 2 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

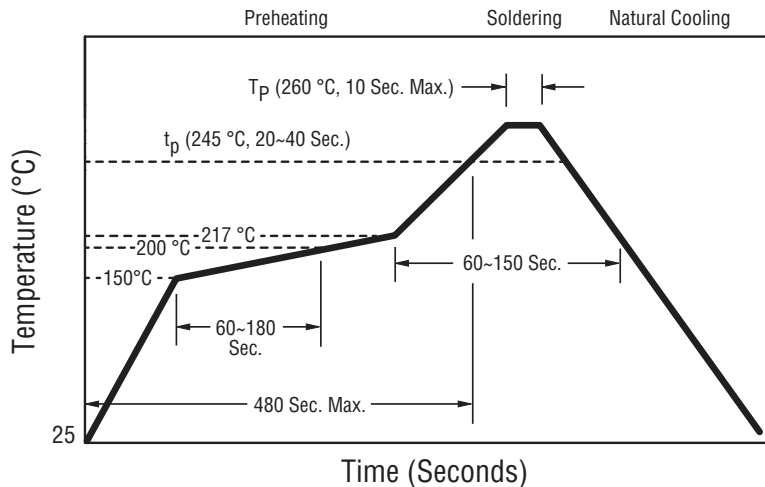
 This series is currently available but not recommended for new designs. Contact Bourns for alternative product information.

SRN3012TA Series - Semi-shielded Power Inductors

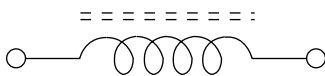
Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 1 MHz / 0.1 V		Q (Min.) @ 1 MHz	SRF (MHz) Typ.	DCR (Ω) $\pm 20\%$	I _{rms} (A)	I _{sat} (A)
	L (μ H)	Tol. %					
SRN3012TA-1R0Y	1.0	± 30	10	150	0.042	2.00	2.15
SRN3012TA-1R5Y	1.5	± 30	15	130	0.056	1.85	1.7
SRN3012TA-2R2M	2.2	± 20	15	90	0.08	1.7	1.5
SRN3012TA-3R3M	3.3	± 20	15	70	0.1	1.55	1.2
SRN3012TA-4R7M	4.7	± 20	18	55	0.13	1.3	1.05
SRN3012TA-6R8M	6.8	± 20	20	45	0.18	1.05	0.9
SRN3012TA-100M	10	± 20	20	40	0.245	0.89	0.76
SRN3012TA-150M	15	± 20	20	35	0.386	0.74	0.62
SRN3012TA-220M	22	± 20	22	25	0.58	0.61	0.49

Soldering Profile



Electrical Schematic



How to Order

SRN3012TA - 100M

Model _____
Value Code (see table) _____

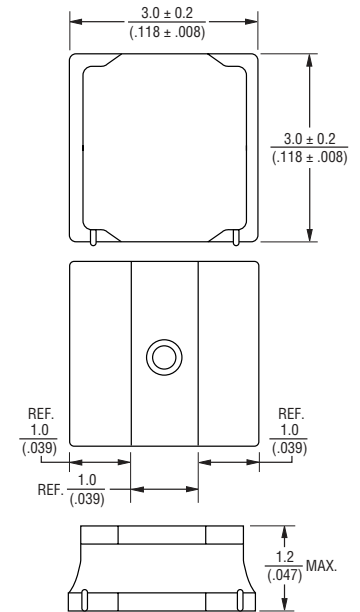
General Specifications

Operating Temperature -55 °C to +125 °C
(Temperature rise included)
Storage Temperature .. -55 °C to +125 °C
Temperature Rise 40 °C at rated I_{rms}
Rated Current
..... Inductance drops 30 % at I_{sat}
Failure In Time (FIT) 24.7/10⁹ hours
Mean Time Between Failures (MTBF)
..... 40.4 x 10⁶ hours

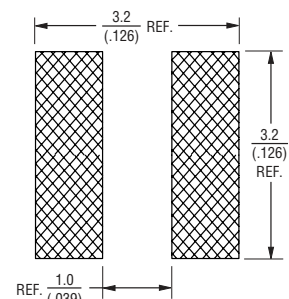
Materials

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

Product Dimensions



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. 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.

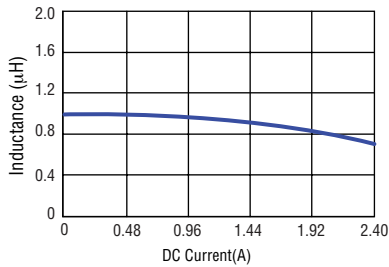
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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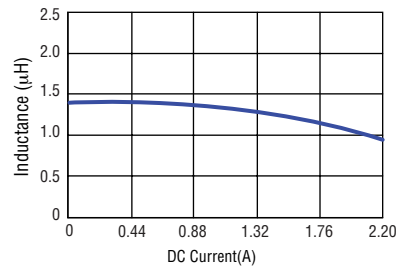
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Inductance vs. Current

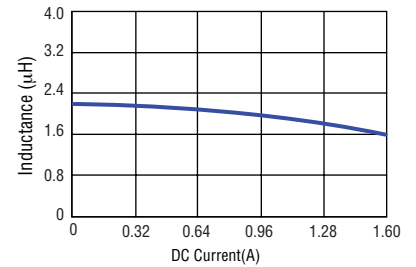
SRN3012TA-1R0Y



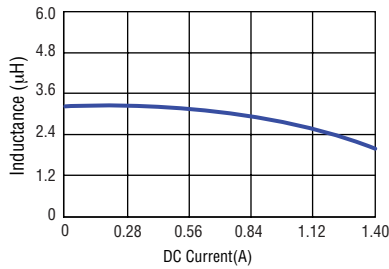
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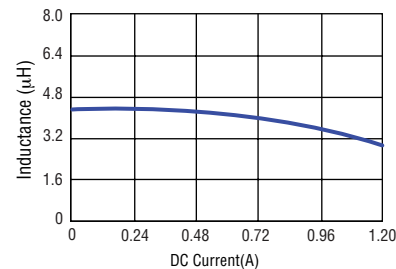
SRN3012TA-2R2M



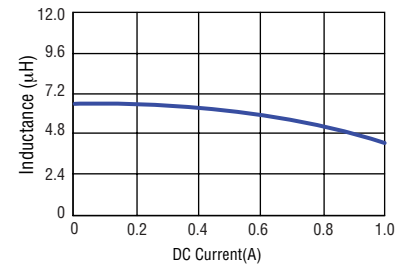
SRN3012TA-3R3M



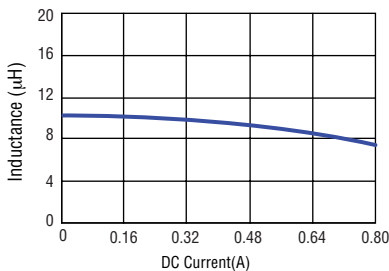
SRN3012TA-4R7M



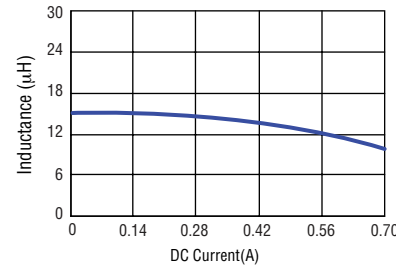
SRN3012TA-6R8M



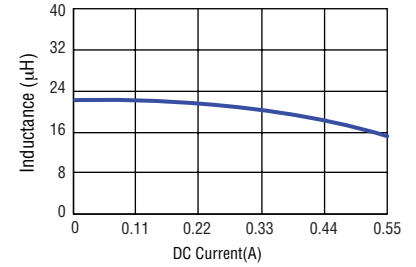
SRN3012TA-100M



SRN3012TA-150M



SRN3012TA-220M



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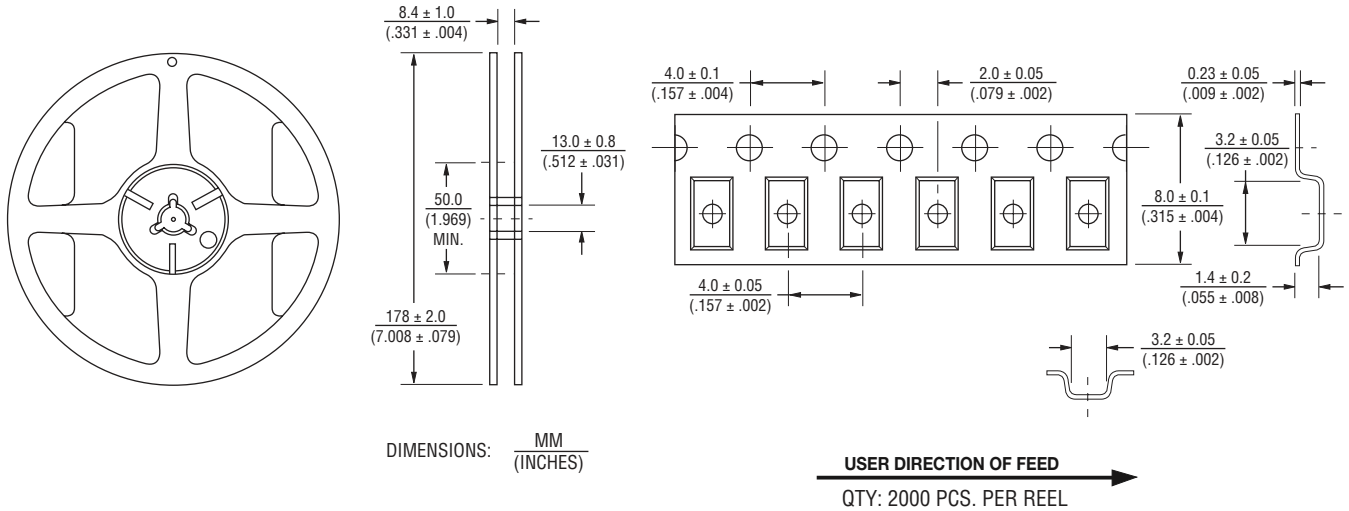
Users should verify actual device performance in their specific applications.

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SRN3012TA Series - Semi-shielded Power Inductors

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Packaging Specifications



REV. 06/22

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