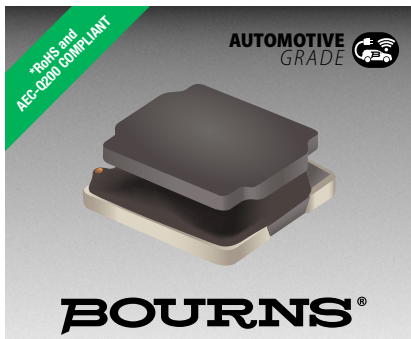




Features

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



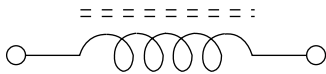
This series is currently available but not recommended for new designs. Contact factory for alternative product information.

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) ± 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

Electrical Schematic

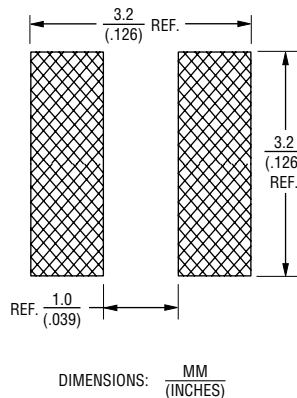


How to Order

SRN3012TA - 100M

Model _____
Value Code (see table) _____

Recommended Layout



Additional Information

Click these links for more information:



[PRODUCT
SELECTOR](#)

[TECHNICAL
LIBRARY](#)

[INVENTORY](#)

[SAMPLES](#)

[CONTACT](#)

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

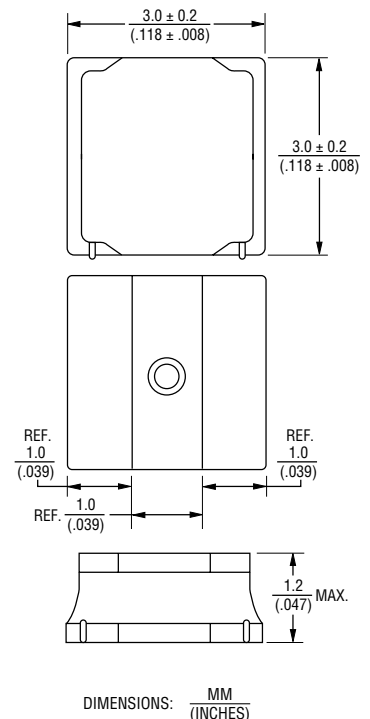
Wire Enameled copper

Terminal Finish Sn

Coating Magnetic epoxy resin

Packaging 2000 pcs. per 7-inch reel

Product Dimensions



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.

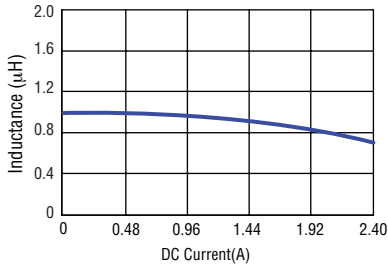
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SRN3012TA Series – Semi-shielded Power Inductors

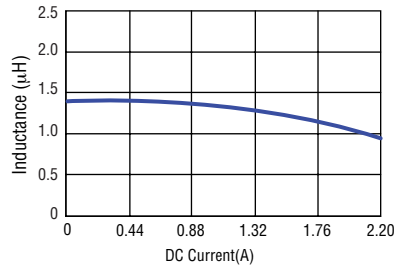
BOURNS®

Inductance vs. Current

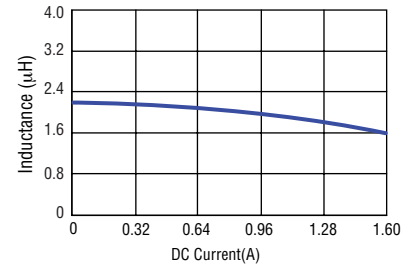
SRN3012TA-1R0Y



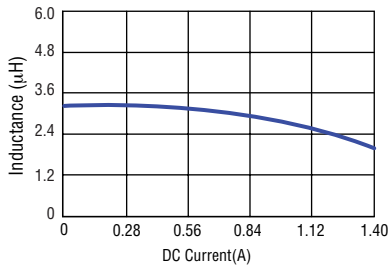
SRN3012TA-1R5Y



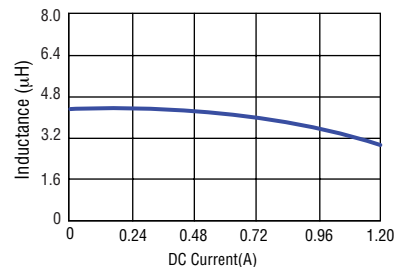
SRN3012TA-2R2M



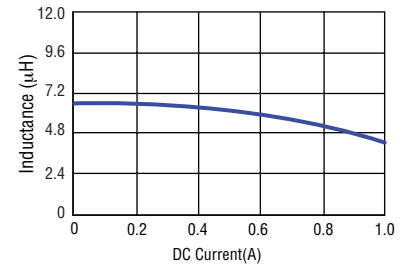
SRN3012TA-3R3M



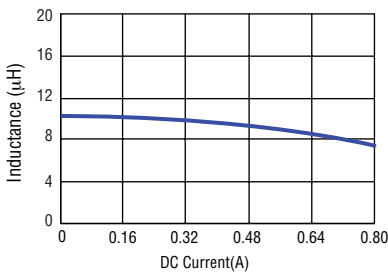
SRN3012TA-4R7M



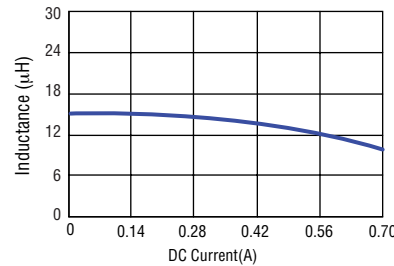
SRN3012TA-6R8M



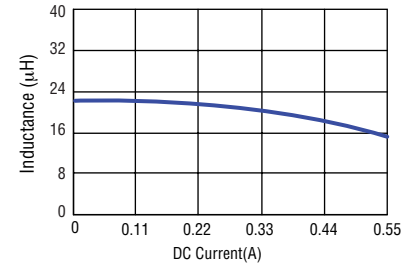
SRN3012TA-100M



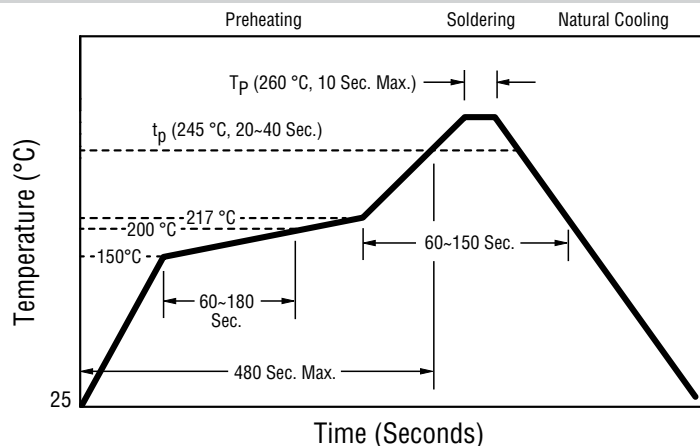
SRN3012TA-150M



SRN3012TA-220M



Soldering Profile

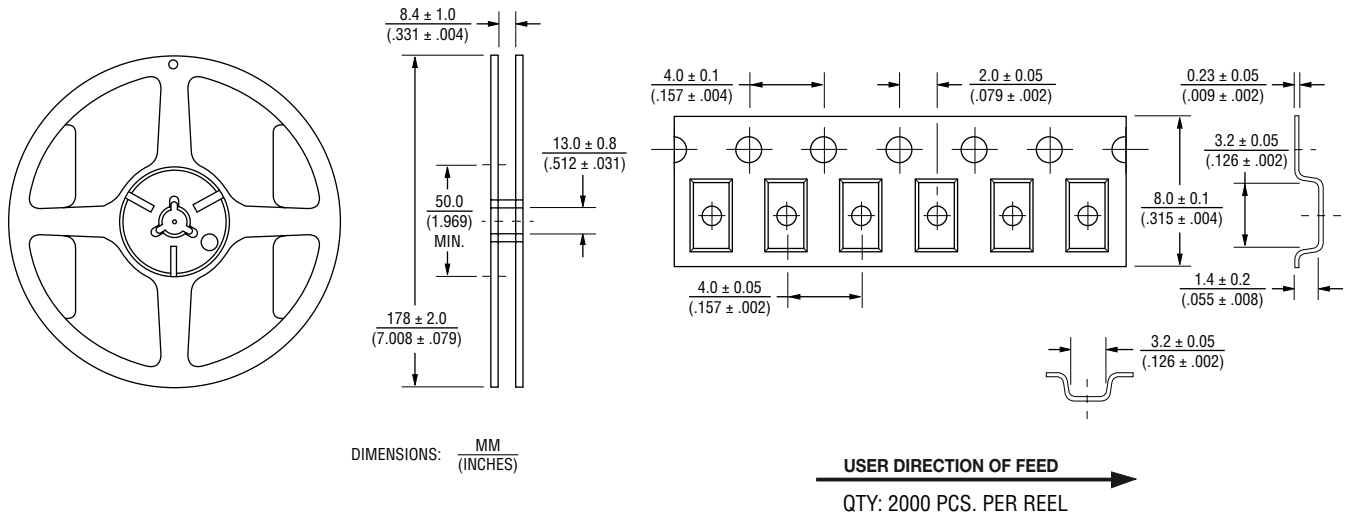


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SRN3012TA Series – Semi-shielded Power Inductors

BOURNS®

Packaging Specifications



BOURNS®

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Asia: Tel: +886-2-2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

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