

Features

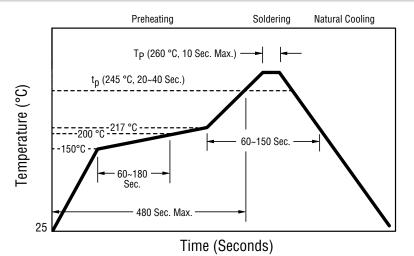
- Semi-shielded construction
- Inductance range: 0.47 to 22 µH
- Rated current up to 3.2 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

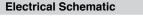
SRN4012TA Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

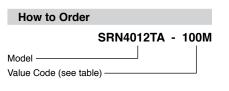
	Inductance @ 100 kHz / 1 V		Q (Min.)	SRF (MHz)	DCR (Ω)	Irms	Isat
Bourns Part No.	L (μΗ)	Tol. %	@ 100 kHz	Typ.	±20 %	(A)	(A)
SRN4012TA-R47M	0.47	±20	6	140	0.025	3.2	4
SRN4012TA-1R0M	1.0	±20	6	100	0.042	2.2	2.8
SRN4012TA-1R5M	1.5	±20	6	90	0.05	2	2.2
SRN4012TA-2R2M	2.2	±20	6	70	0.06	1.9	1.65
SRN4012TA-3R3M	3.3	±20	6	60	0.07	1.7	1.4
SRN4012TA-4R7M	4.7	±20	6	45	0.095	1.5	1.2
SRN4012TA-5R6M	5.6	±20	6	40	0.12	1.4	1.1
SRN4012TA-6R8M	6.8	±20	6	35	0.125	1.3	0.9
SRN4012TA-100M	10	±20	10	30	0.18	1.1	0.8
SRN4012TA-150M	15	±20	10	24	0.26	0.75	0.65
SRN4012TA-220M	22	±20	10	18	0.4	0.62	0.5

Soldering Profile





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WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

* 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 (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chiorine (CI) 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

General Specifications

Operating Temperature

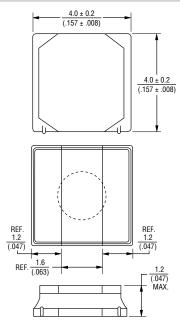
-40 °C to +125 °C (Temperature rise included) Storage Temperature ... -40 °C to +125 °C Temperature Rise40 °C at rated Irms Rated Current

......Inductance drops 30 % at Isat Failure In Time (FIT)......24.7/10^e hours Mean Time Between Failures (MTBF)

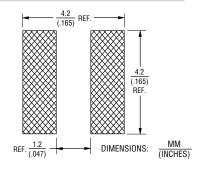
Materials

Core	Ferrite
Wire	Enameled copper
Terminal Finish	Sn
Coating	Magnetic epoxy resin
Packaging 450	0 pcs. per 13-inch reel

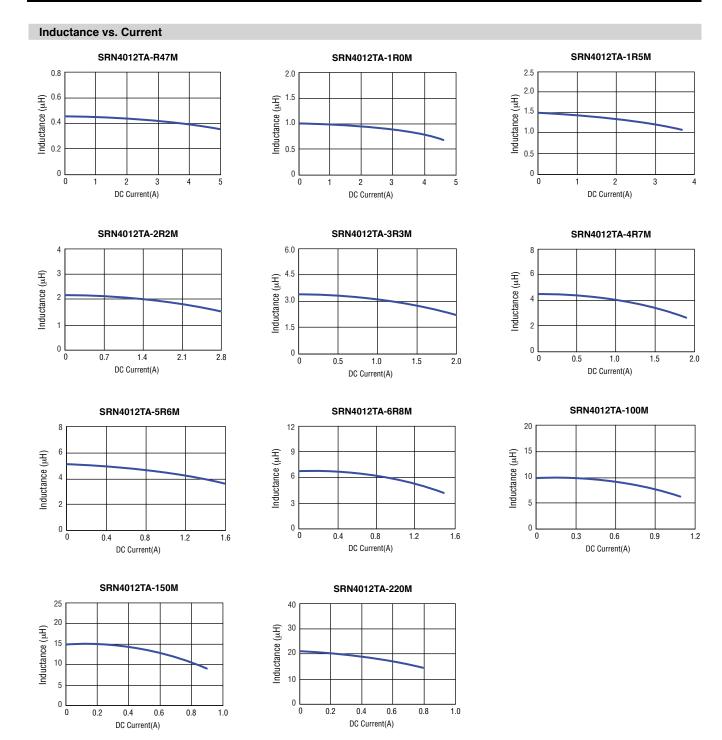
Product Dimensions



Recommended Layout



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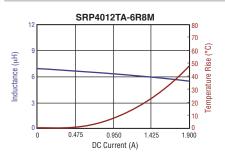


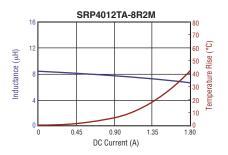
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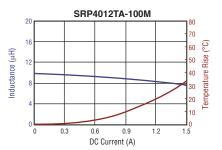
SRP4012TA Series - Shielded Power Inductors

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L vs. I Charts



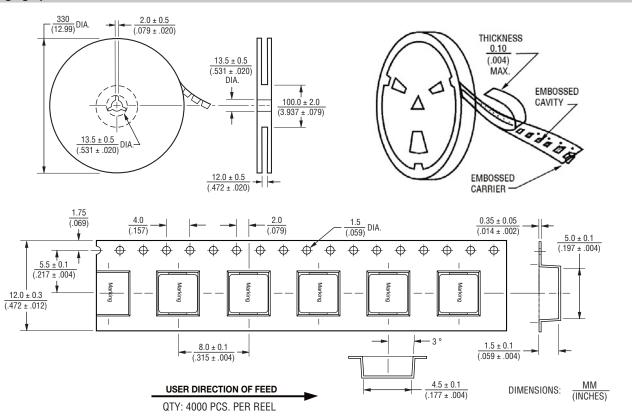




Electrical Schematic



Packaging Specifications



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