

Features

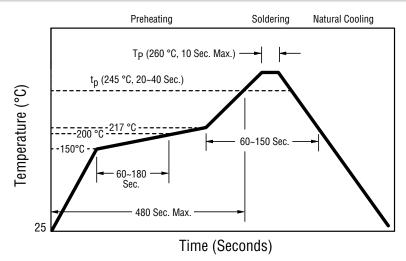
- Semi-shielded construction
- Inductance range: 0.47 to 22 µH
- Rated current up to 2.3 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRN2010TA Series - Semi-shielded Power Inductors

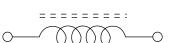
Electrical Specifications @ 25 °C

	Inductance @ 1 MHz / 0.1 V		Q (Typ.)	SRF (MHz)	DCR (Ω)	Irms (A)	Isat (A)
Bourns Part No.	L (μH)	Tol. %	@ 1 MHz	Typ.	±20 %	Max.	Max.
SRN2010TA-R47Y	0.47	±30	12	270	0.044	2.35	2.7
SRN2010TA-R68Y	0.68	±30	12	210	0.062	2.05	2
SRN2010TA-1R0Y	1.0	±30	12	170	0.08	1.6	1.8
SRN2010TA-1R5Y	1.5	±30	12	140	0.13	1.26	1.46
SRN2010TA-2R2M	2.2	±20	14	100	0.145	1.2	1.26
SRN2010TA-3R3M	3.3	±20	14	95	0.245	0.95	0.9
SRN2010TA-4R7M	4.7	±20	14	62	0.36	0.9	0.77
SRN2010TA-6R8M	6.8	±20	14	52	0.5	0.55	0.72
SRN2010TA-100M	10	±20	16	43	0.72	0.45	0.55
SRN2010TA-150M	15	±20	16	40	1.4	0.36	0.45
SRN2010TA-180M	18	±20	16	35	1.8	0.34	0.4
SRN2010TA-220M	22	±20	16	30	2	0.27	0.38

Soldering Profile



Electrical Schematic



How to Order



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

* 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 (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

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

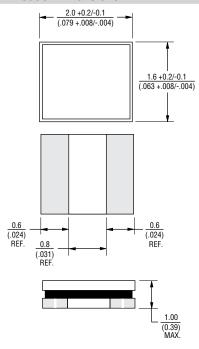
............ Inductance drops 30 % at Isat Failure In Time (FIT).......24.7/10º hours Mean Time Between Failures (MTBF)

......40.4 x 10⁶ hours

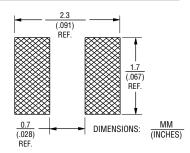
Materials

Core	Ferrite
Wire	Enameled coppe
Terminal Finish	Sr
Coating	Magnetic epoxy resir
Packaging	2000 pcs. per 7-inch ree

Product Dimensions

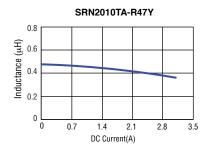


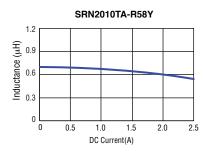
Recommended Layout

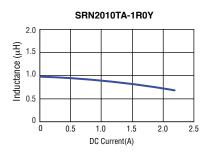


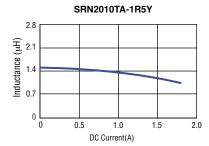
SRN2010TA Series - Semi-shielded Power Inductors

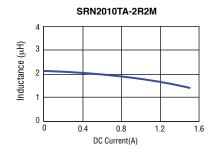
Inductance vs. Current

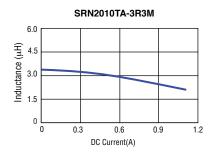


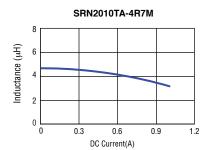


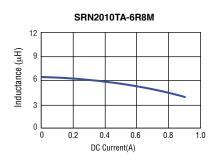


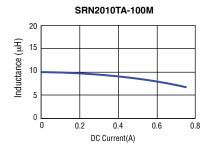


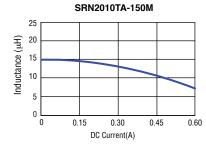


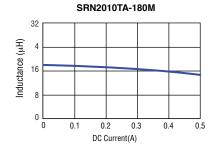


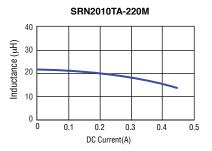






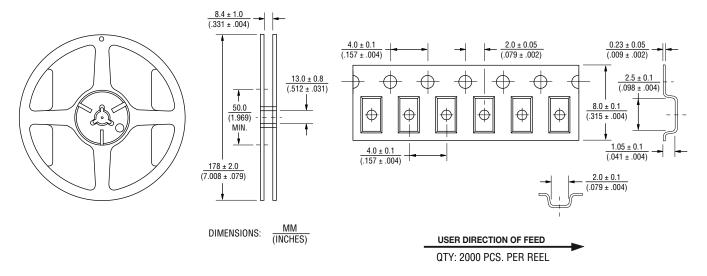






SRN2010TA Series - Semi-shielded Power Inductors **BOURNS**®

Packaging Specifications



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07/16

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