



Features

- Semi-shielded construction
- Inductance range: 0.47 to 22 μ H
- 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

Bourns Part No.	Inductance @ 1 MHz / 0.1 V		Q (Typ.) @ 1 MHz	SRF (MHz) Typ.	DCR (Ω) ± 20 %	Irms (A) Max.	Isat (A) Max.
	L (μ H)	Tol. %					
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

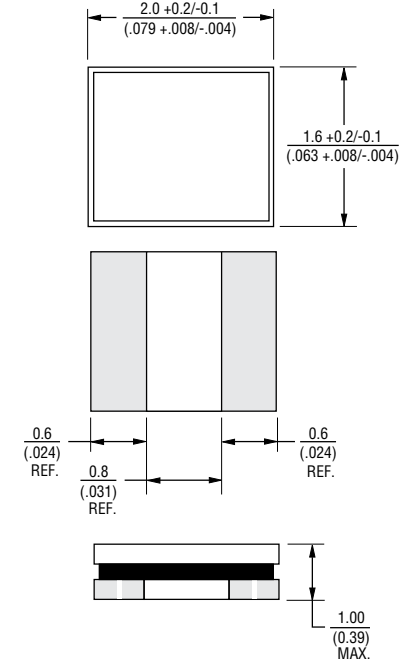
General Specifications

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

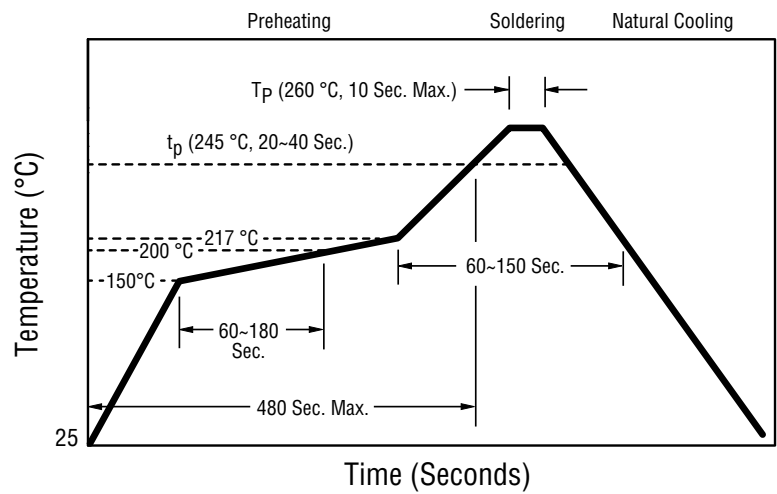
Materials

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

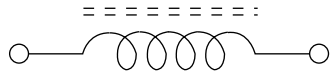
Product Dimensions



Soldering Profile



Electrical Schematic



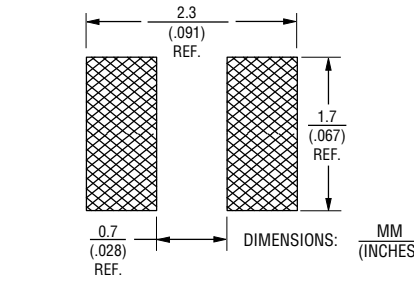
How to Order

SRN2010TA - R68Y
 Model _____
 Value Code (see table) _____

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

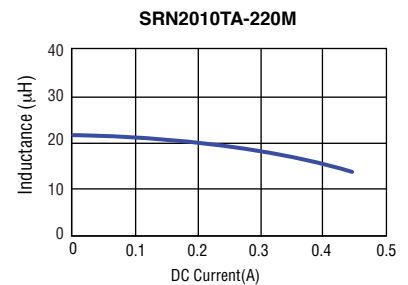
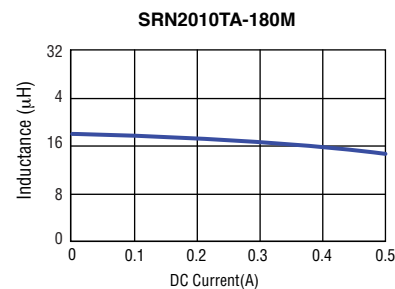
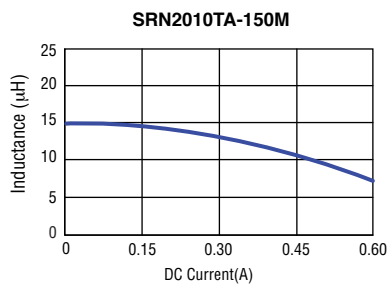
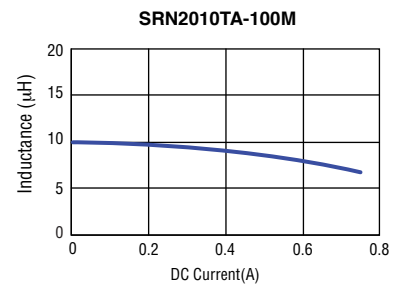
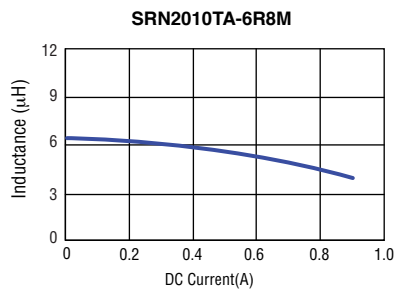
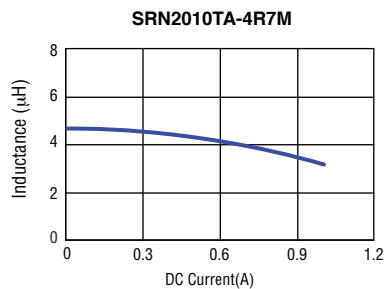
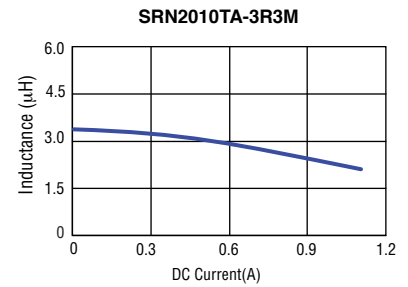
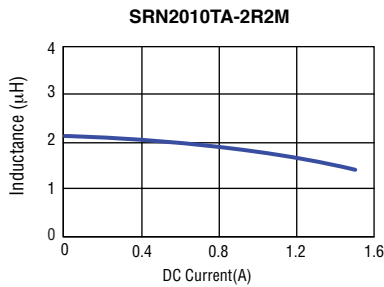
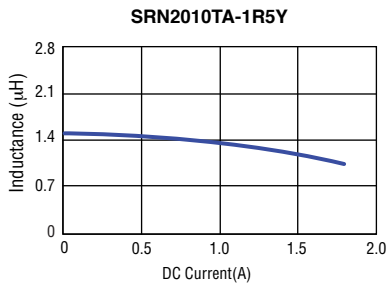
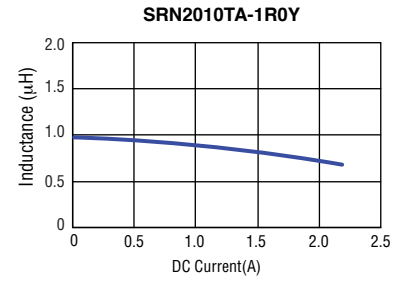
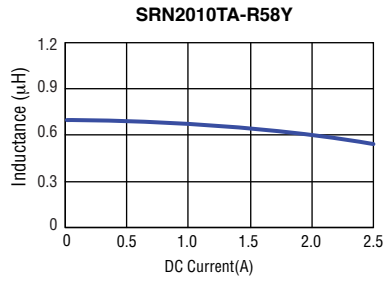
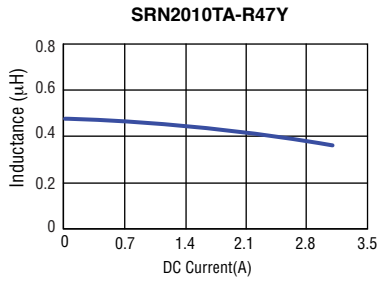
Recommended Layout



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Inductance vs. Current



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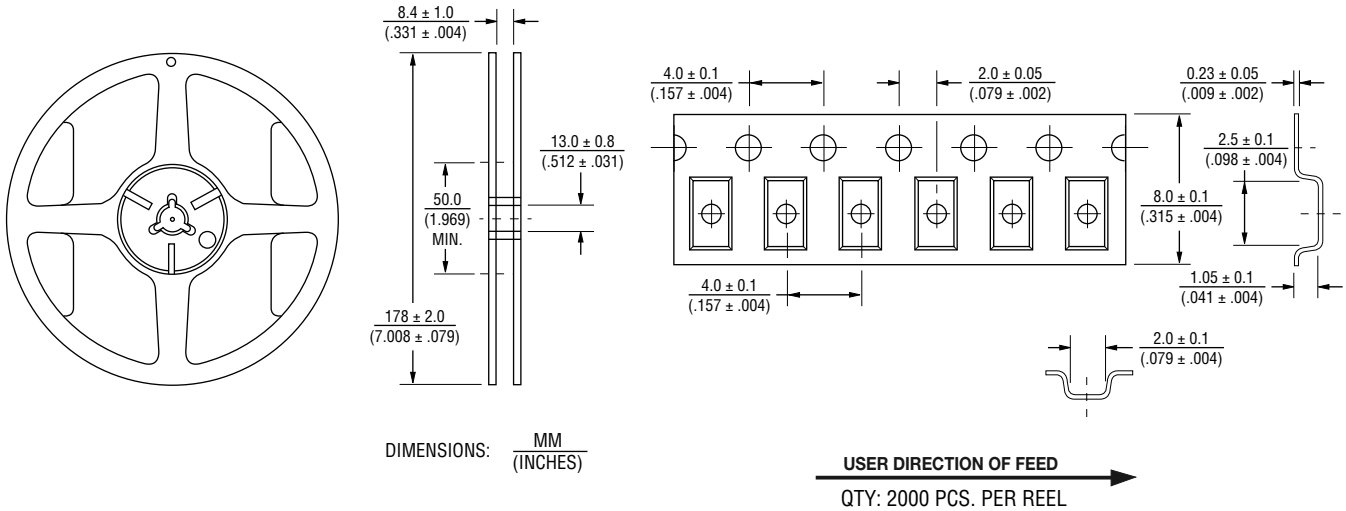
Users should verify actual device performance in their specific applications.

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SRN2010TA Series - Semi-shielded Power Inductors

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Packaging Specifications



BOURNS®

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

EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

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