

Features

- Semi-shielded construction
- Inductance range: 0.47 to 22 μ H
- Rated current up to 2.3 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.

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

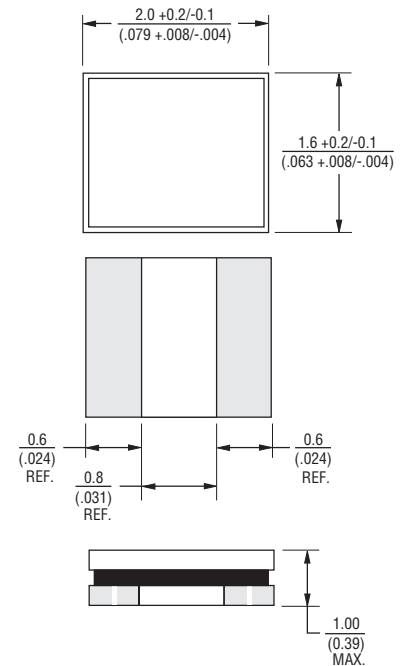
General Specifications

Operating Temperature -55 °C to +125 °C
 (Temperature rise included)
 Storage Temperature .. -55 °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

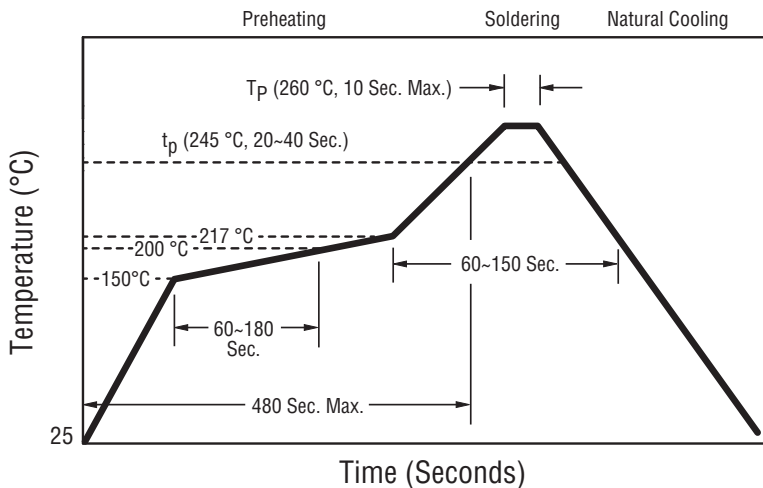
Materials

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

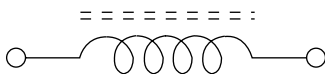
Product Dimensions



Soldering Profile



Electrical Schematic

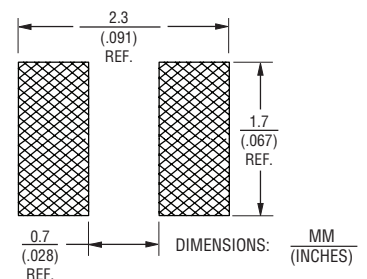


How to Order

SRN2010TA - R68Y

Model _____
 Value Code (see table) _____

Recommended Layout



* 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.

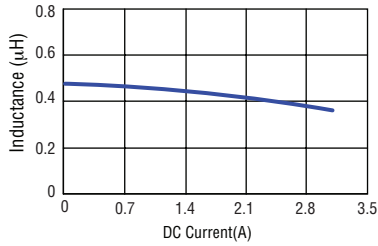
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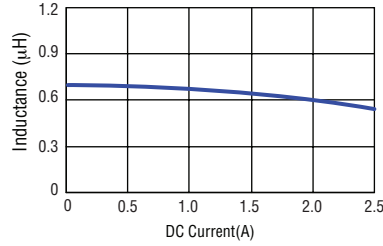
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Inductance vs. Current

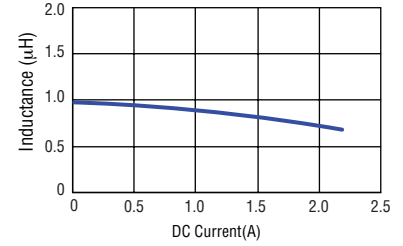
SRN2010TA-R47Y



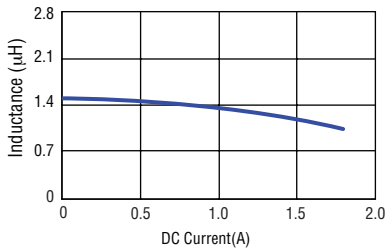
SRN2010TA-R58Y



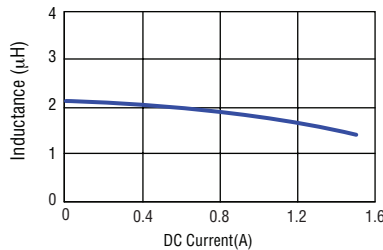
SRN2010TA-1R0Y



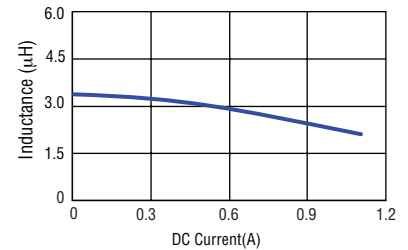
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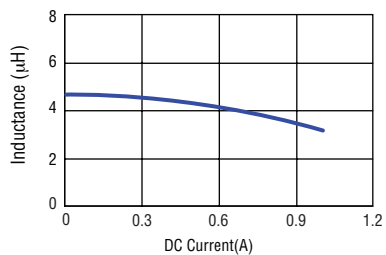
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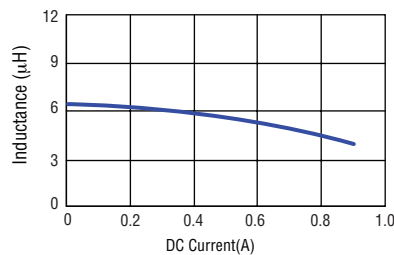
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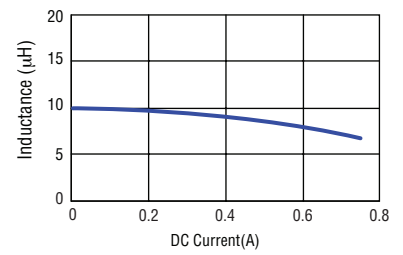
SRN2010TA-4R7M



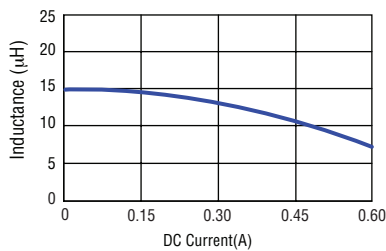
SRN2010TA-6R8M



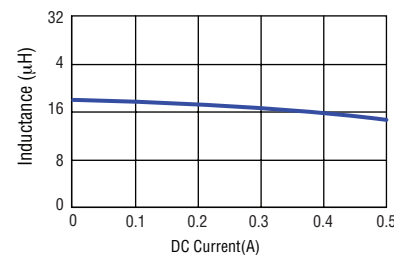
SRN2010TA-100M



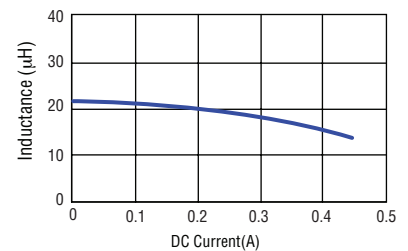
SRN2010TA-150M



SRN2010TA-180M



SRN2010TA-220M



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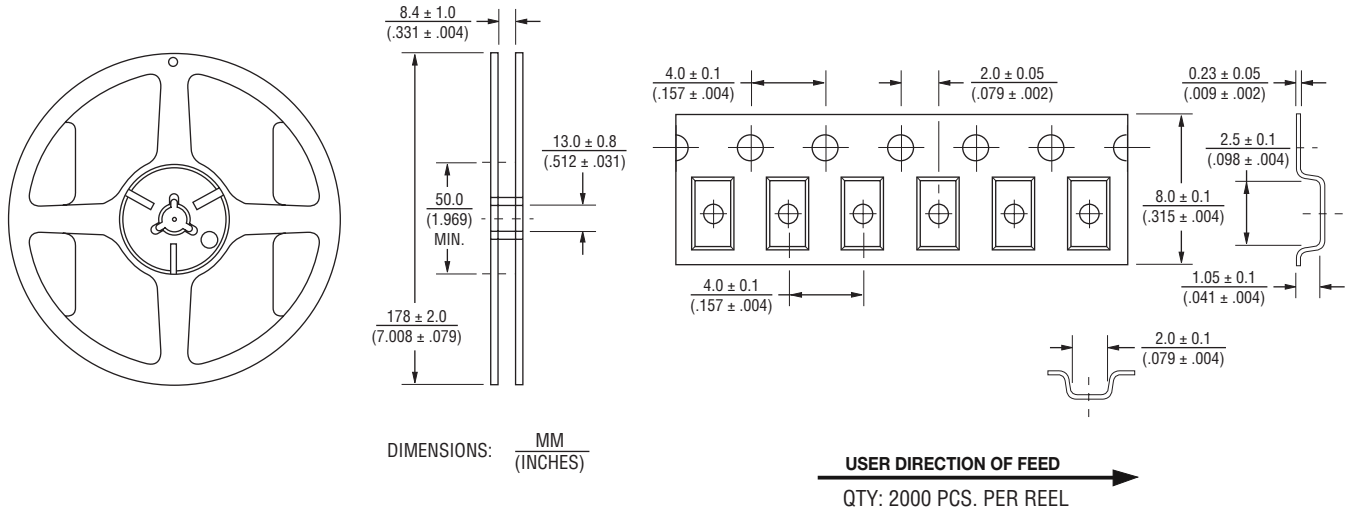
Users should verify actual device performance in their specific applications.

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Packaging Specifications



REV. 06/22

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