THE DATASHEET OF

SRN2010TA-2R2M

Features

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

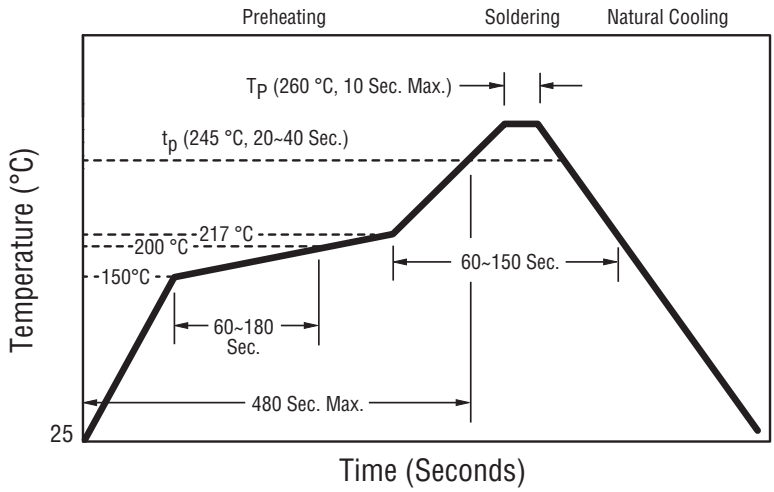
This series is currently available but not recommended for new designs. Contact Bourns for alternative product information.

SRN2010TA Series - Semi-shielded Power Inductors

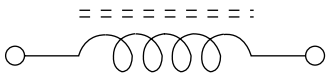
Electrical Specifications @ 25 °C

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

SRN2010TA - R68Y

Model

Value Code (see table)

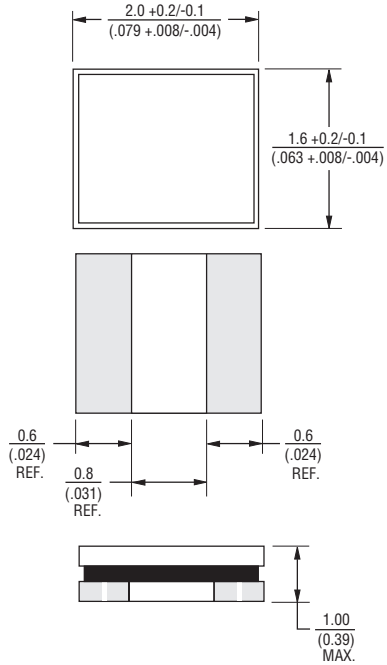
General Specifications

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).....24.7/10^9 hours
Mean Time Between Failures (MTBF) .....40.4 x 10^6 hours

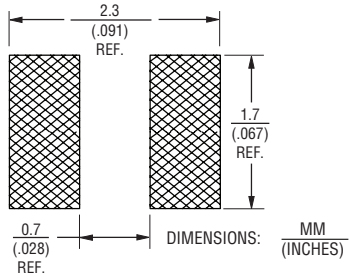
Materials

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

Product Dimensions



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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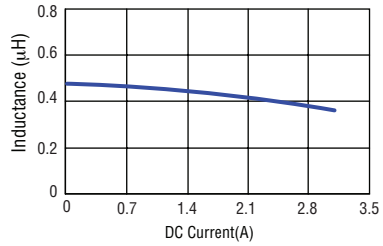
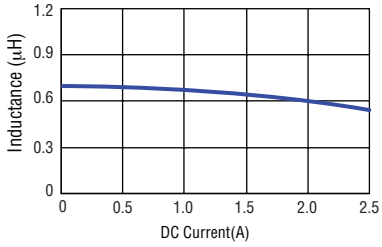
Inductance vs. Current

SRN2010TA-R47Y



SRN2010TA-R58Y



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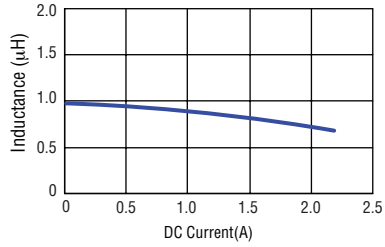

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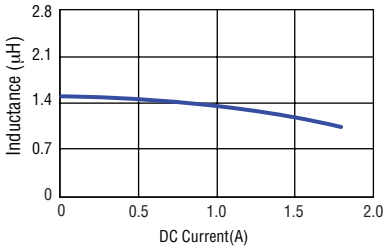
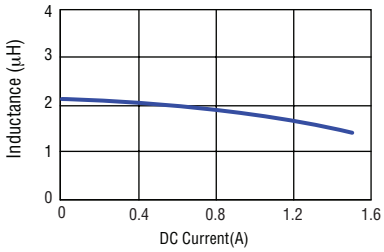
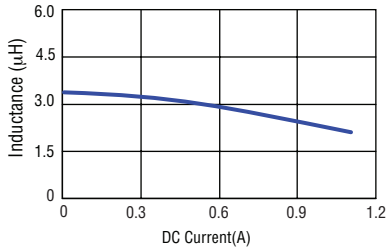


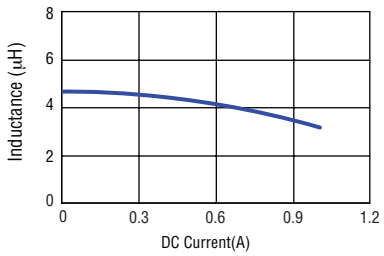
SRN2010TA-2R2M



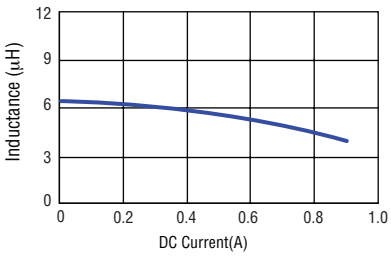
SRN2010TA-3R3M



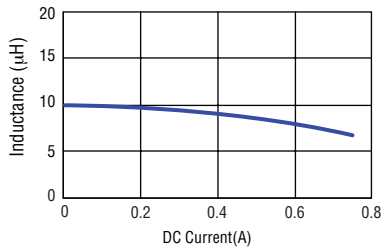
SRN2010TA-4R7M



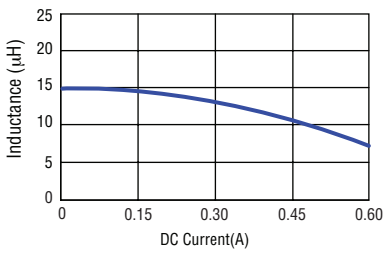
SRN2010TA-6R8M



SRN2010TA-100M



SRN2010TA-150M



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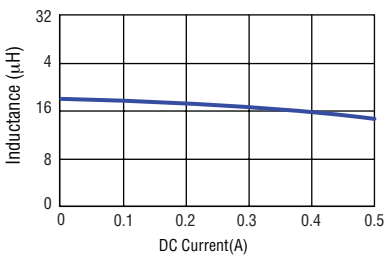
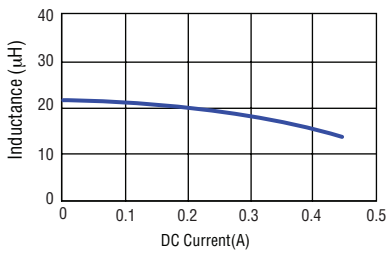


SRN2010TA-220M



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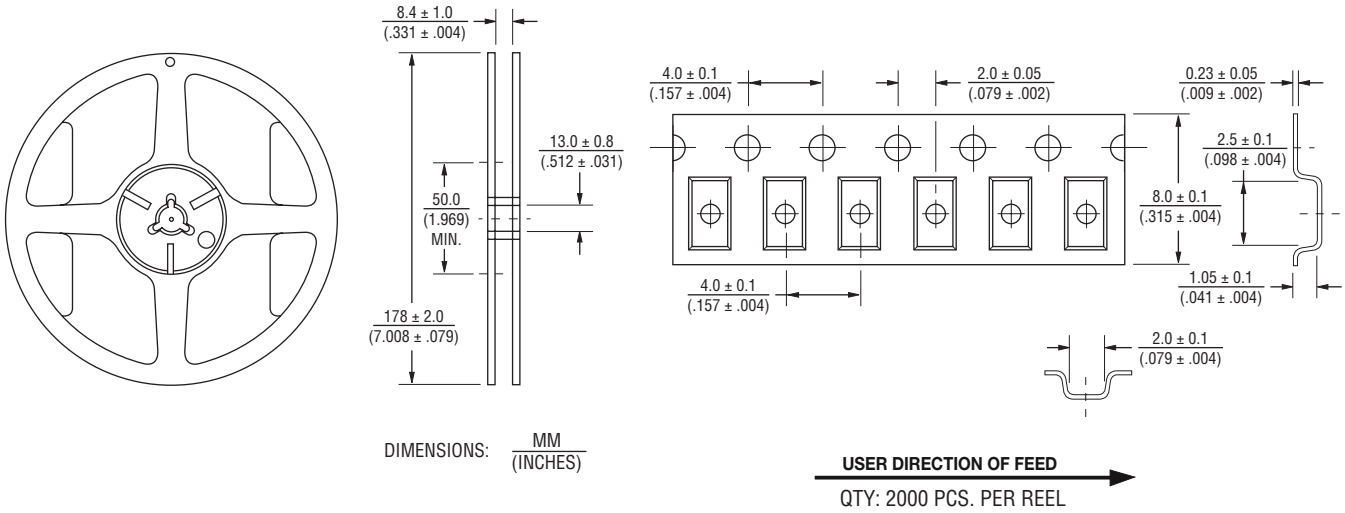
Packaging Specifications



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