

Features

- Semi-shielded construction
- Inductance range: 1 to 22 µH
- Rated current up to 2.1 A
- AEC-Q200 qualified
- Low profile: 1.0 mm max.
- RoHS compliant* and halogen free**

Applications

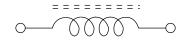
- Automotive systems:
 - Driver assistant
 - Infotainment
 - Lighting
- DC/DC converters
- Power supplies
- Wearable devices
- HDD, SSDs
- Smartphones
- LCD displays

SRN3010TA Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

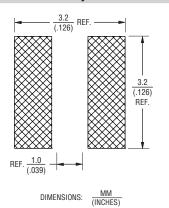
	Inductance @ 1 MHz / 0.1 V		Q @ 1 MHz	SRF (MHz)	DCR (Ω)	Irms (A)	Isat (A)
Bourns Part No.	L (μH)	Tol. %	Min.	Typ.	±20 %	Typ.	Typ.
SRN3010TA-1R0Y	1.0	±30	10	170	0.055	2.1	1.8
SRN3010TA-1R5Y	1.5	±30	12	150	0.07	1.9	1.5
SRN3010TA-2R2M	2.2	±20	15	100	0.09	1.7	1.3
SRN3010TA-3R3M	3.3	±20	18	85	0.13	1.5	1.1
SRN3010TA-4R7M	4.7	±20	20	80	0.17	1.3	0.9
SRN3010TA-6R8M	6.8	±20	20	55	0.26	1	0.77
SRN3010TA-100M	10	±20	22	40	0.35	0.8	0.63
SRN3010TA-150M	15	±20	22	35	0.51	0.7	0.54
SRN3010TA-220M	22	±20	22	30	0.75	0.6	0.43

Electrical Schematic



How to Order

Recommended Layout



General Specifications

Operating Temperature

.....-40 °C to +125 °C (Temperature rise included) Storage Temperature (Component)

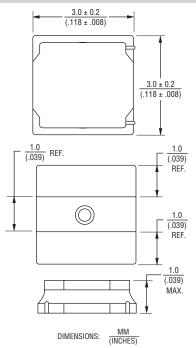
-40 °C to +125 °C Temperature Rise40 °C at rated Irms

Temperature Rise40 °C at rated Irms Rated Current

Materials

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

Product Dimensions



The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

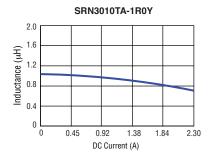
Users should verify actual device performance in their specific applications.

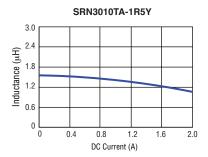
^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

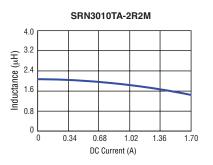
^{**}Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less. Specifications are subject to change without notice.

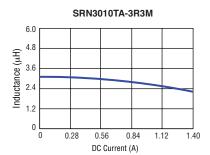
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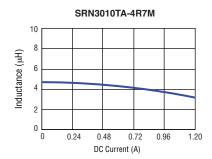
Inductance vs. Current

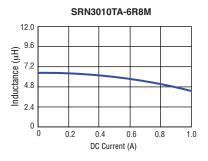


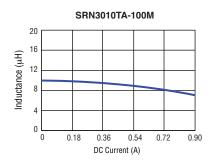


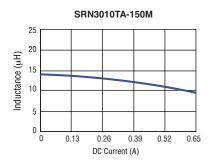


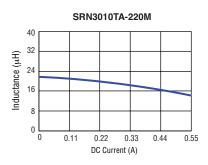








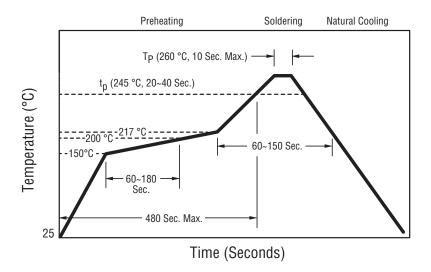




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BOURNS

Soldering Profile



Packaging Specifications

