

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

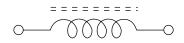
- Automotive systems:
 - Driver assistant
 - Infotainment
 - Lighting
- DC/DC converters
- Power supplies
- Wearable devices
- HDD, SSDs
- Smartphones
- LCD displays

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



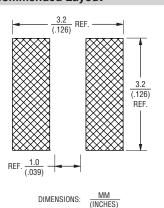
How to Order

Value Code (see table)

Model

SRN3010TA - 2R2M

Recommended Layout



General Specifications

Operating Temperature

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

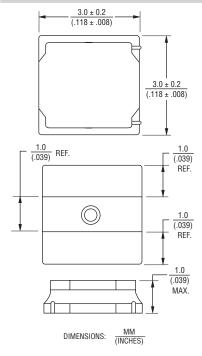
-40 °C to +125 °C
Temperature Rise40 °C at rated Irms

Temperature Rise40 °C at rated Irms Rated Current

Materials

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

Product Dimensions



Specifications are subject to change without notice.

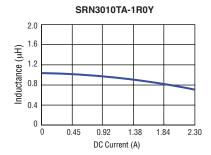
Users should verify actual device performance in their specific applications.

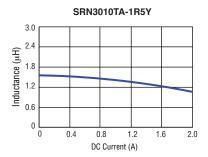
^{*} RoHS Directive 2015/863, Mar 31, 2015 and Annex.

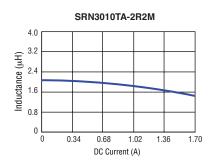
^{**}Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

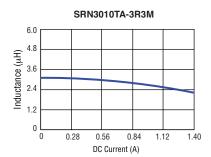
SRN3010TA Series - Semi-shielded Power Inductors

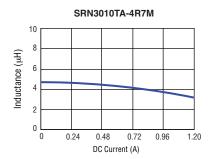
Inductance vs. Current

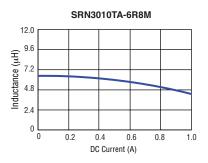


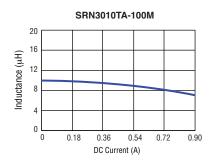


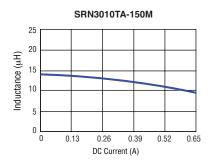


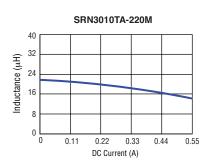




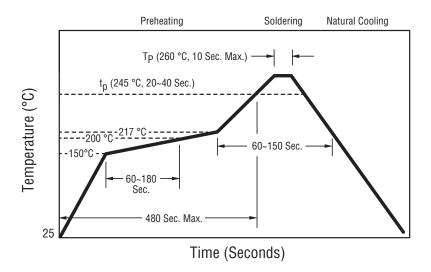




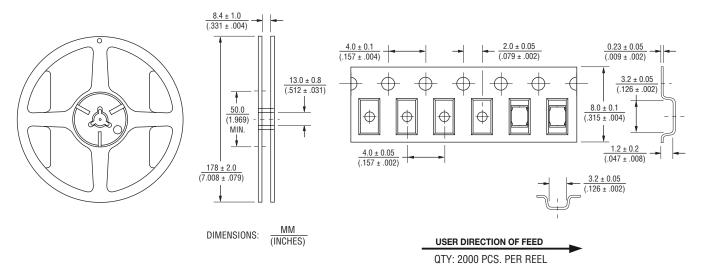




Soldering Profile



Packaging Specifications



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