

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**

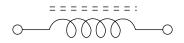


SRN3010TA Series – Semi-shielded Power Inductors

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



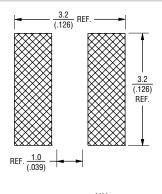
How to Order

SRN3010TA - 2R2M

Model

Value Code (see table)

Recommended Layout



DIMENSIONS: $\frac{MM}{(INCHES)}$

Additional Information

Click these links for more information:











SELECTOR

TECHNICAL LIBRARY

SAMPLES

CONTACT

General Specifications

Operating Temperature

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

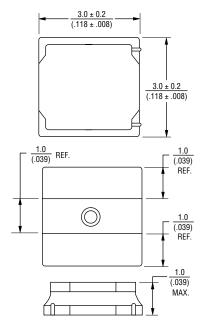
Storage Temperature (Component)
.....-40 °C to +125 °C

Temperature Rise40 °C at rated Irms Rated Current

Materials

Core......Ferrite
WireEnameled copper
Terminal FinishSn
CoatingMagnetic epoxy resin
Packaging2000 pcs. per 7-inch reel

Product Dimensions



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

**Rourns considers a product to be "balogen free" if (z

Cancer and Reproductive Harm

WARNING

**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.

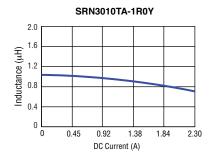
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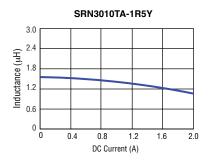


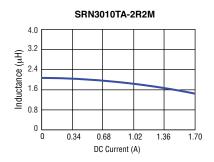
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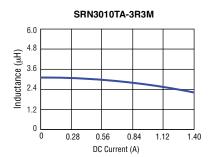
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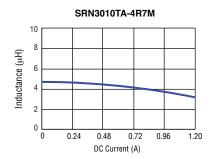
Inductance vs. Current

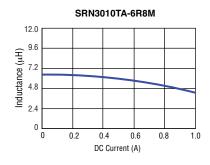


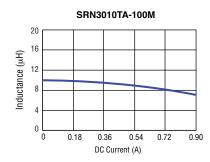


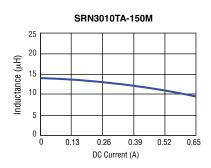


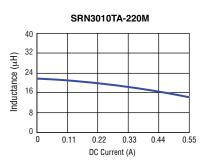








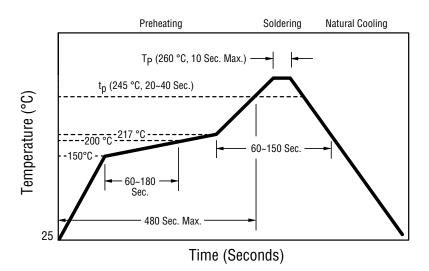




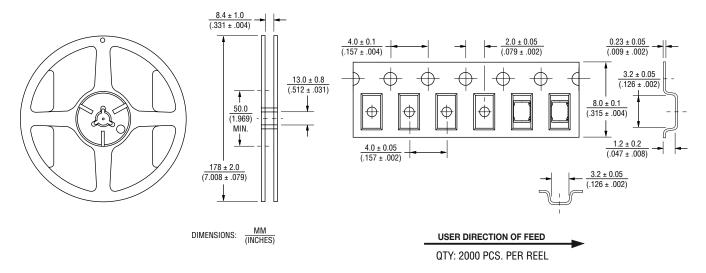
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Soldering Profile



Packaging Specifications



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REV. 06/25

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