



BOURNES®

Features

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

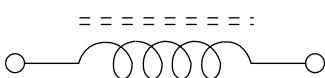
! This series is currently available but not recommended for new designs. Contact factory for alternative product information.

SRN3010TA Series – Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 1 MHz / 0.1 V		Q @ 1 MHz Min.	SRF (MHz) Typ.	DCR (Ω) $\pm 20\%$	Irms (A) Typ.	Isat (A) Typ.
	L (μ H)	Tol. %					
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

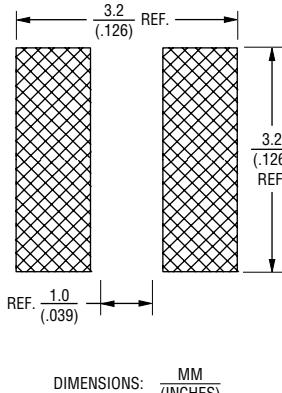


How to Order

SRN3010TA - 2R2M

Model _____
Value Code (see table) _____

Recommended Layout



Additional Information

Click these links for more information:



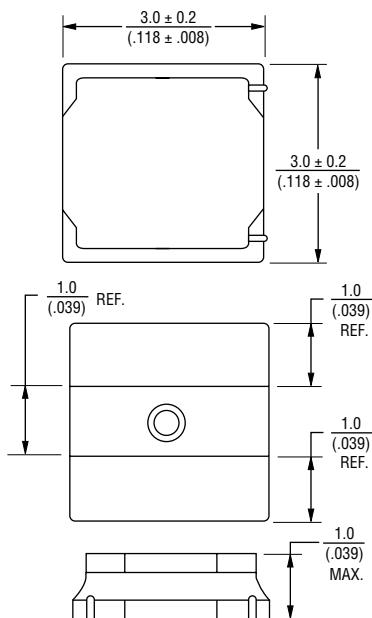
General Specifications

- Operating Temperature -40 °C to +125 °C (Temperature rise included)
- Storage Temperature (Component) -40 °C to +125 °C
- Temperature Rise 40 °C at rated Irms
- Rated Current Inductance drops 30 % at Isat
- Moisture Sensitivity Level 1
- ESD Classification (HBM) N/A

Materials

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

Product Dimensions



WARNING

Cancer and Reproductive Harm

www.P65Warnings.ca.gov

* 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.

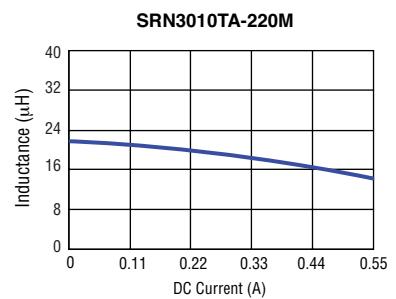
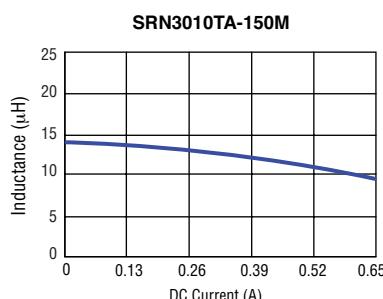
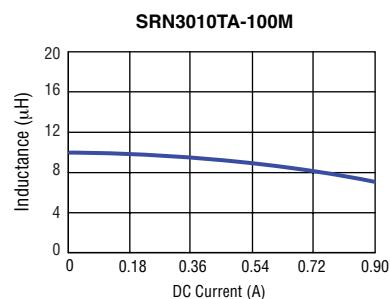
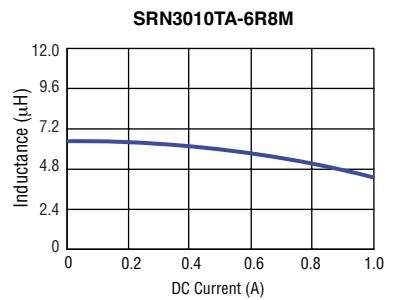
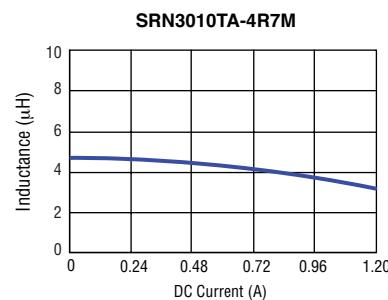
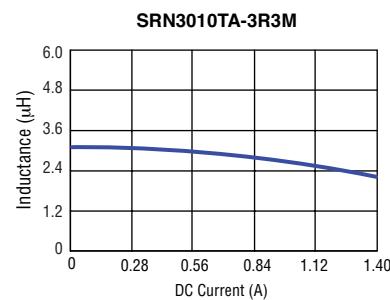
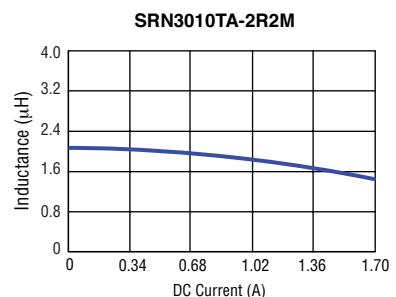
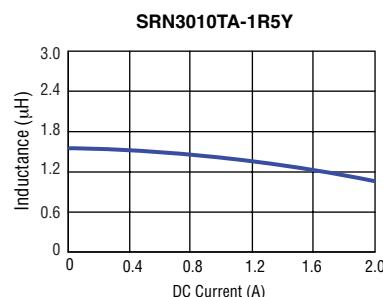
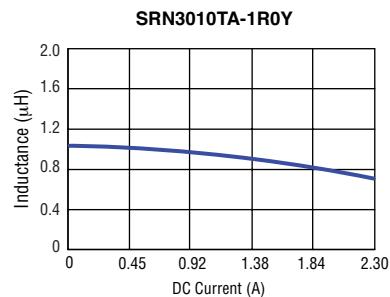
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DIMENSIONS: MM (INCHES)

SRN3010TA Series – Semi-shielded Power Inductors

BOURNS®

Inductance vs. Current



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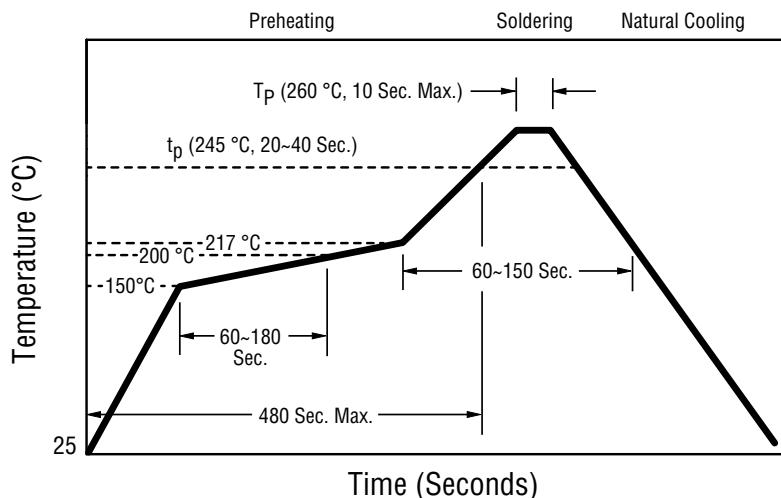
Users should verify actual device performance in their specific applications.

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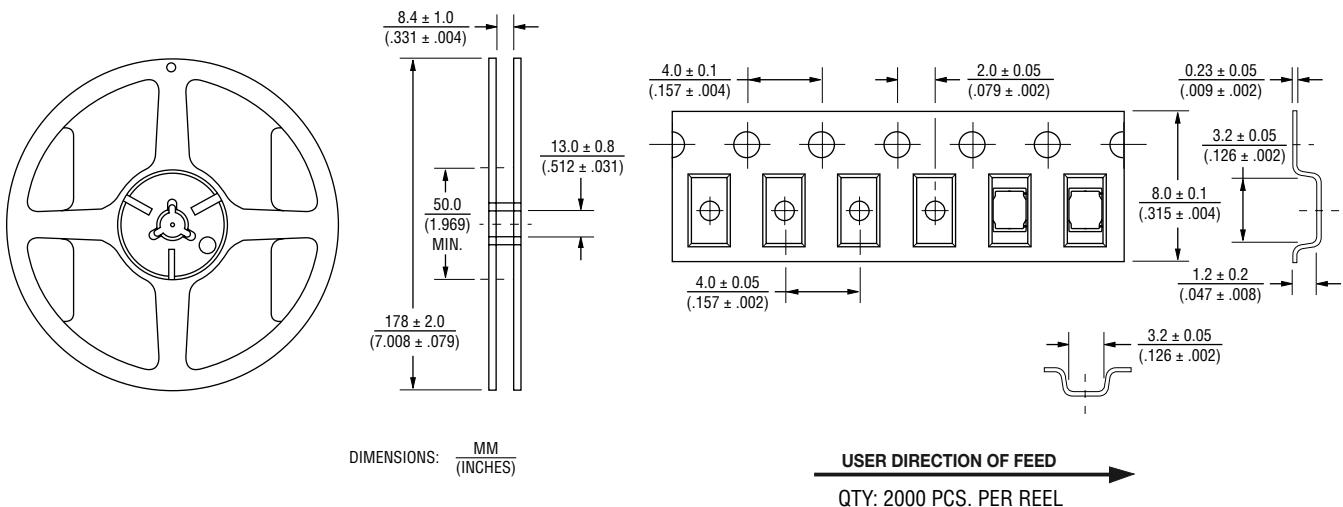
SRN3010TA Series – Semi-shielded Power Inductors

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Soldering Profile



Packaging Specifications



BOURNS®

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Asia: Tel: +886-2-2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877 • Email: europus@bourns.com

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