



Features

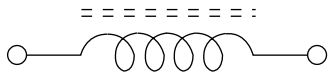
- Semi-shielded construction
- Inductance range: 1 to 22 μH
- Rated current up to 2.1 A
- AEC-Q200 qualified
- Low profile: 1.0 mm max.
- RoHS compliant* and halogen free**

SRN3010TA Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 1 MHz / 0.1 V		Q @ 1 MHz Min.	SRF (MHz) Typ.	DCR (Ω) $\pm 20\%$	I _{rms} (A) Typ.	Isat (A) Typ.
	L (μH)	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

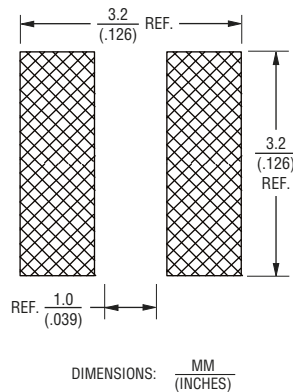


How to Order

SRN3010TA - 2R2M

Model _____
Value Code (see table) _____

Recommended Layout



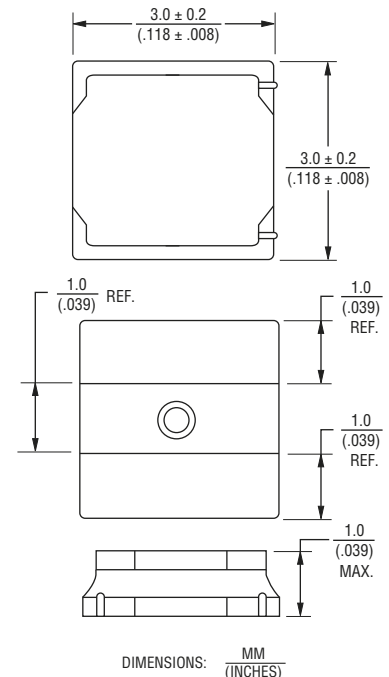
General Specifications

Operating Temperature -40 °C to +125 °C
(Temperature rise included)
Storage Temperature (Component) -40 °C to +125 °C
Temperature Rise 40 °C at rated I_{rms}
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



BOURNS

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

www.bourns.com



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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

** Bourns follows the prevailing definition of "halogen free" in the industry. 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.

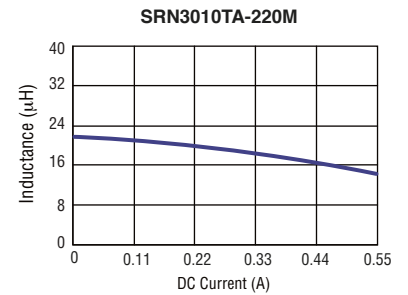
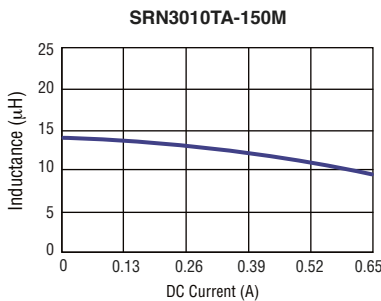
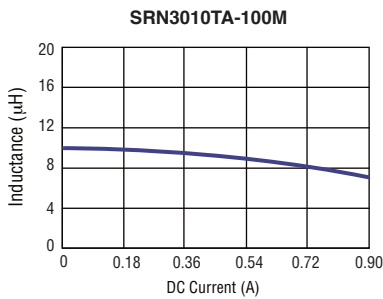
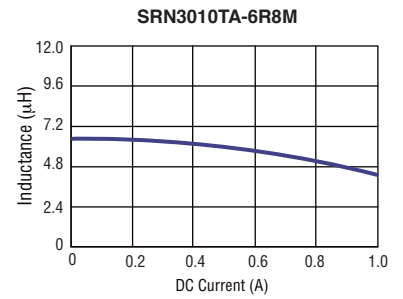
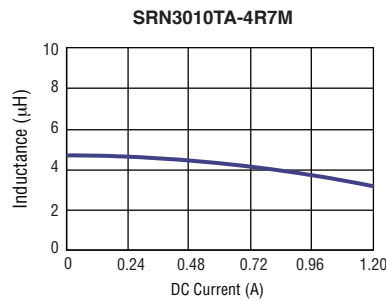
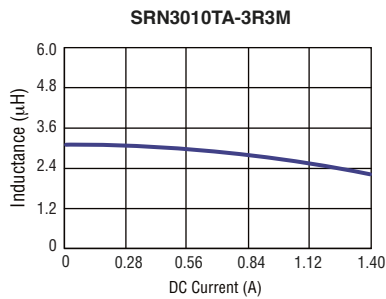
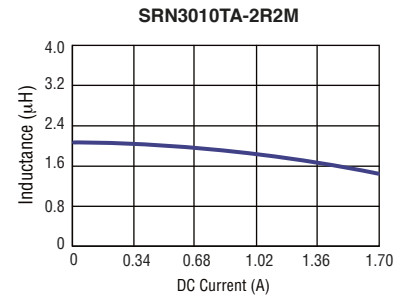
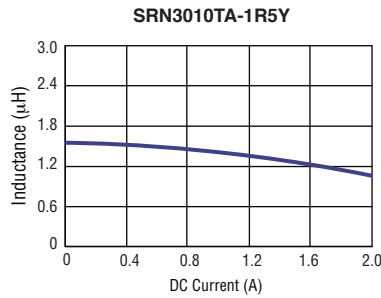
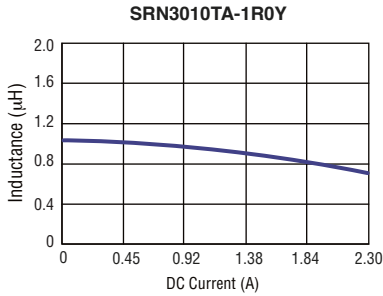
Users should verify actual device performance in their specific applications.

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SRN3010TA Series - Semi-shielded Power Inductors

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Inductance vs. Current



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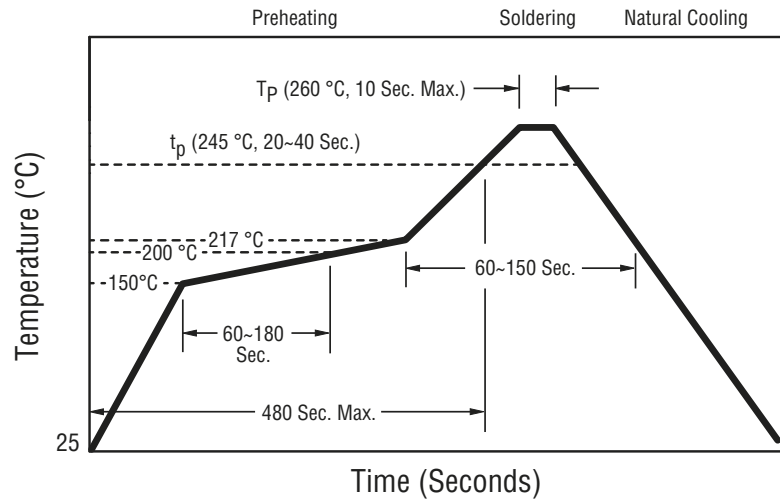
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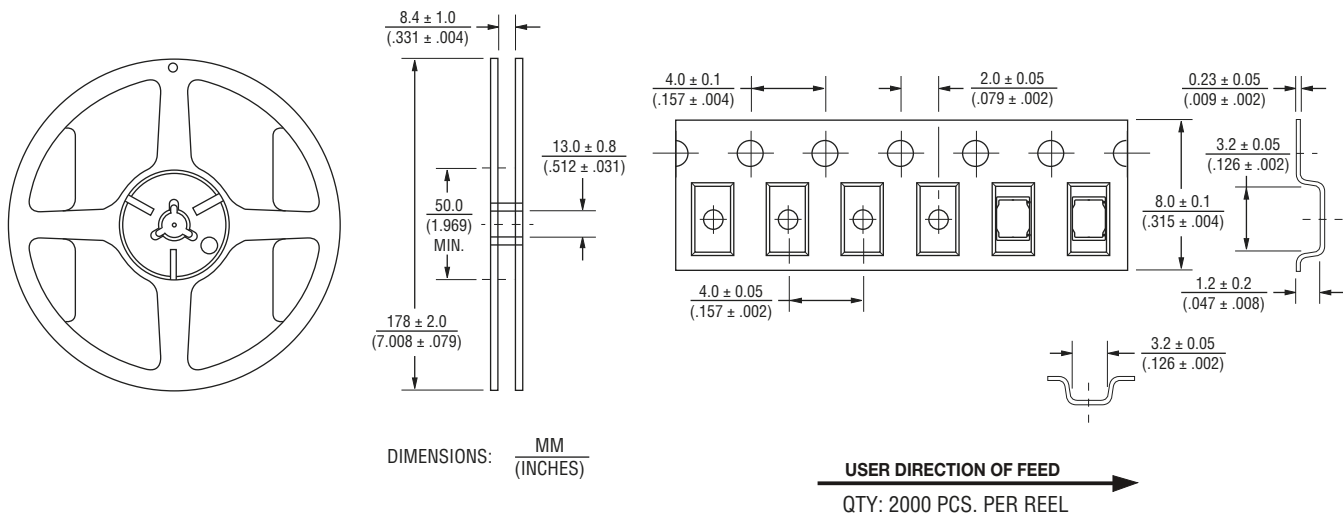
SRN3010TA Series - Semi-shielded Power Inductors

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Soldering Profile



Packaging Specifications



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