



Features

- Semi-shielded construction
- Inductance range: 1 to 47 μ H
- Rated current up to 2.2 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

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

SRN3015TA Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 kHz / 0.1 V		Q (Min.) @ 100 kHz	SRF (MHz) Typ.	DCR (Ω) ± 20 %	I _{rms} (A)	I _{sat} (A)
	L (μ H)	Tol. %					
SRN3015TA-1R0Y	1.0	± 30	12	100	0.03	2.2	2.2
SRN3015TA-1R5Y	1.5	± 30	12	87	0.04	2	2
SRN3015TA-2R2M	2.2	± 20	12	64	0.06	1.7	1.7
SRN3015TA-3R3M	3.3	± 20	12	49	0.08	1.4	1.4
SRN3015TA-4R7M	4.7	± 20	12	40	0.12	1.2	1.2
SRN3015TA-6R8M	6.8	± 20	12	36	0.16	1	1
SRN3015TA-100M	10	± 20	12	28	0.22	0.8	0.75
SRN3015TA-150M	15	± 20	12	23	0.32	0.7	0.65
SRN3015TA-180M	18	± 20	12	21	0.41	0.65	0.6
SRN3015TA-220M	22	± 20	12	20	0.46	0.6	0.55
SRN3015TA-330M	33	± 20	12	18	0.8	0.45	0.4
SRN3015TA-470M	47	± 20	12	17	1.2	0.4	0.35

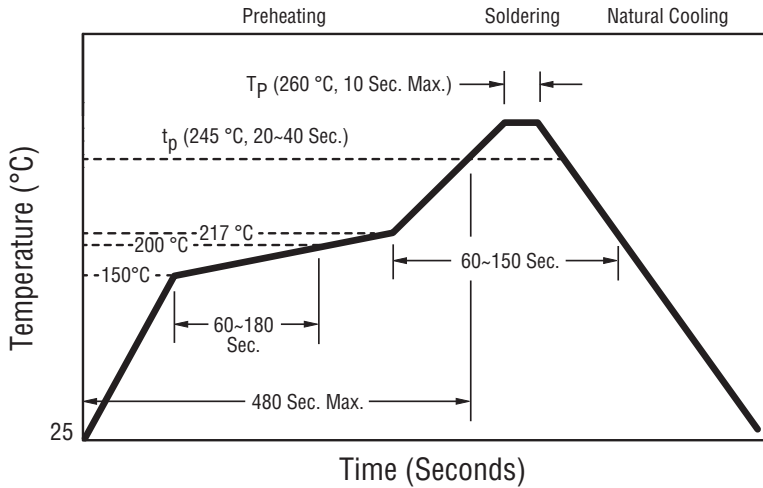
General Specifications

Operating Temperature -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature .. -40 °C to +125 °C
 Temperature Rise 40 °C at rated I_{rms}
 Rated Current
 Inductance drops 30 % at I_{sat}
 Failure In Time (FIT) 24.7/10⁹ hours
 Mean Time Between Failures (MTBF)
 40.4 x 10⁶ hours
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

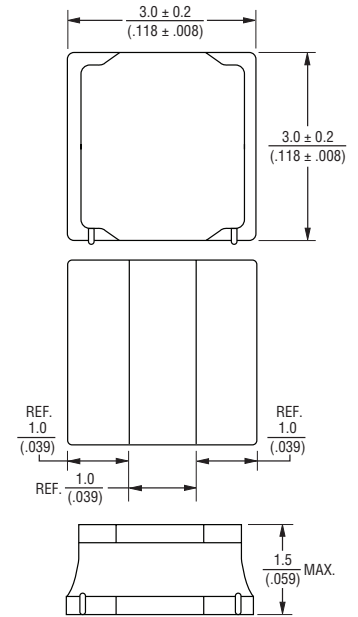
Materials

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

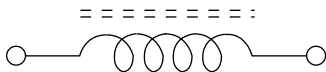
Soldering Profile



Product Dimensions



Electrical Schematic

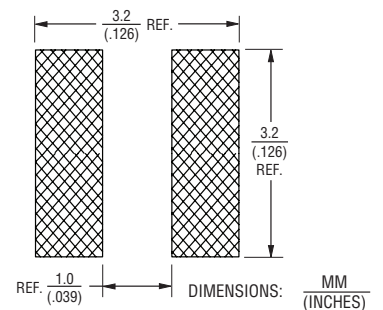


How to Order

SRN3015TA - 100M

Model _____
 Value Code (see table) _____

Recommended Layout



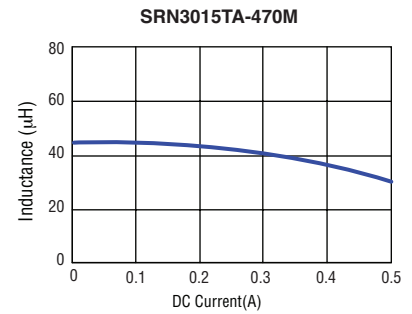
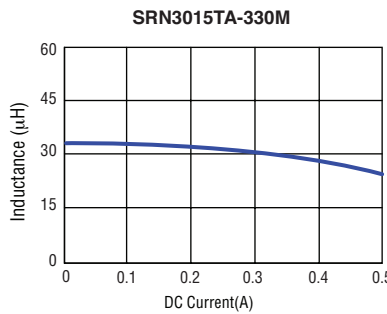
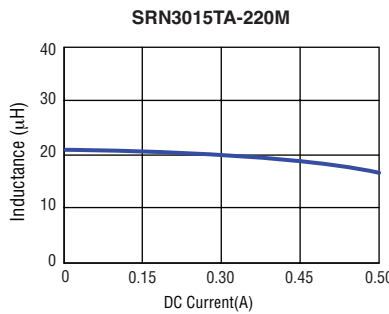
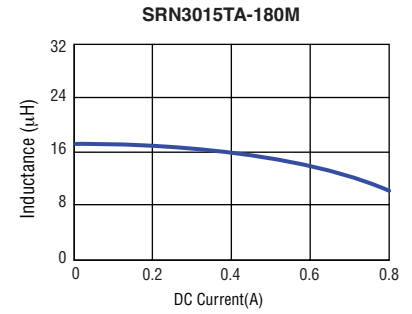
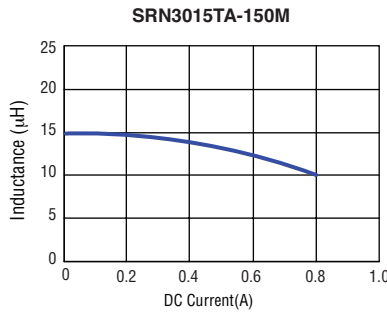
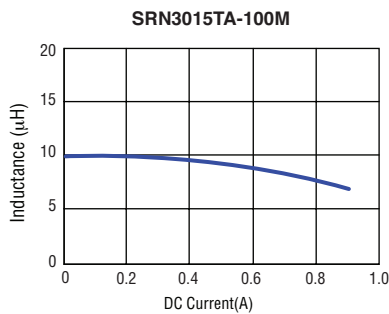
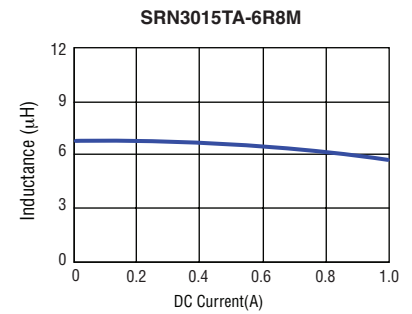
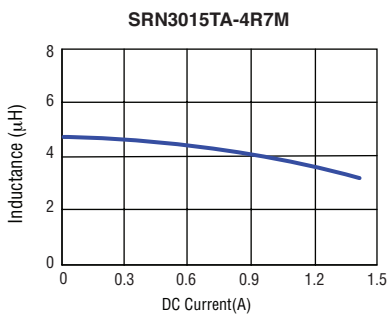
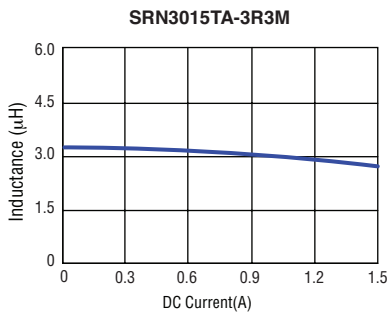
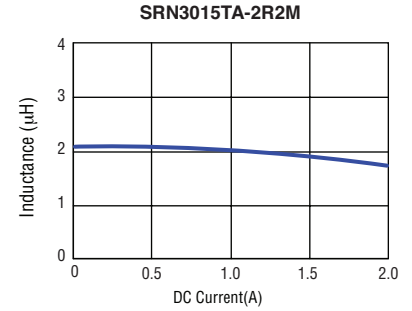
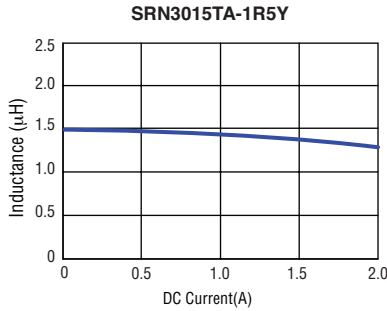
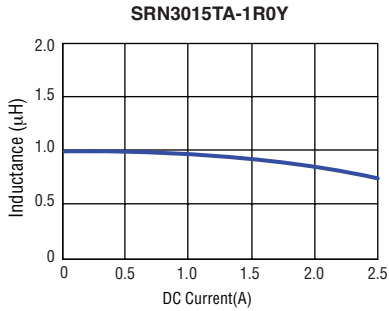
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* 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. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

SRN3015TA Series - Semi-shielded Power Inductors

BOURNS®

Inductance vs. Current



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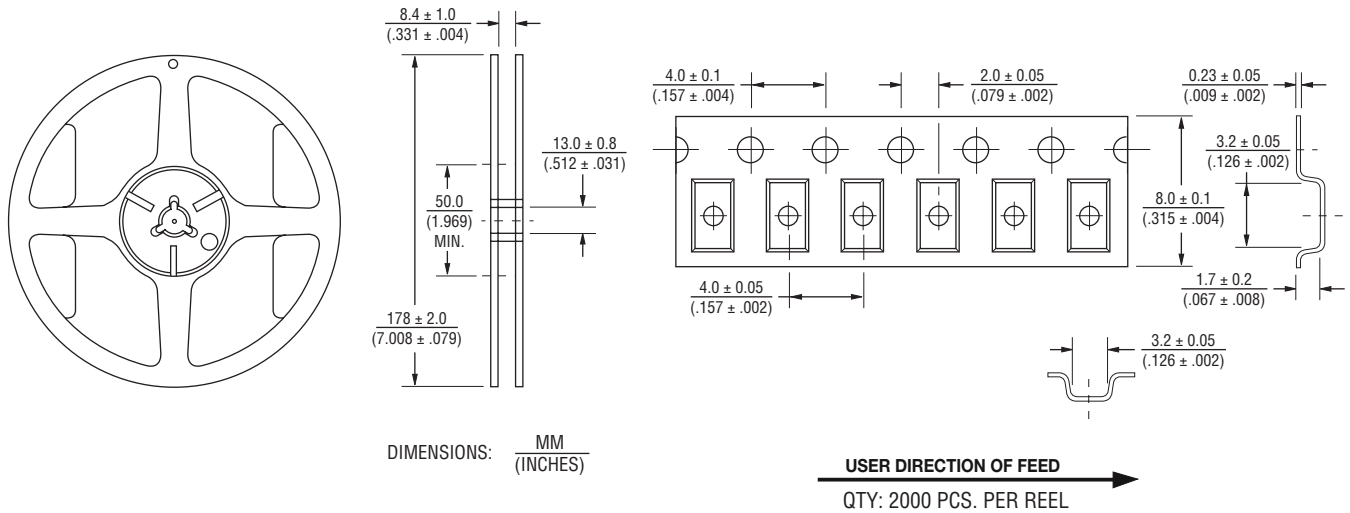
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SRN3015TA Series - Semi-shielded Power Inductors

BOURNS®

Packaging Specifications



REV. 06/22

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