



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**

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

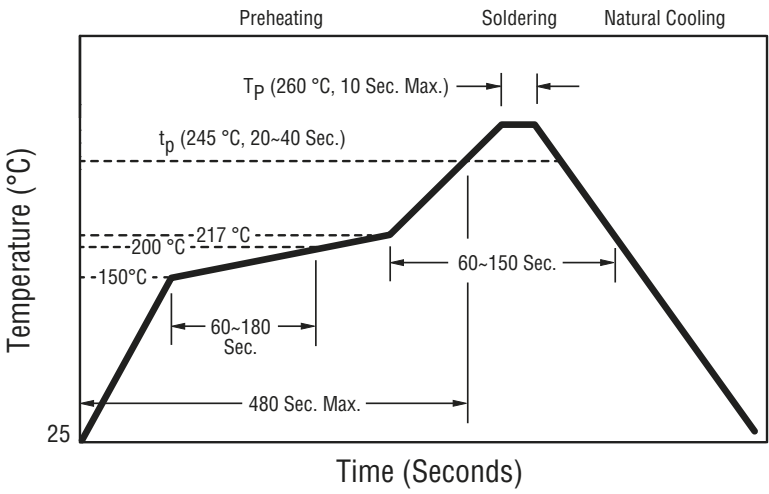
General Specifications

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

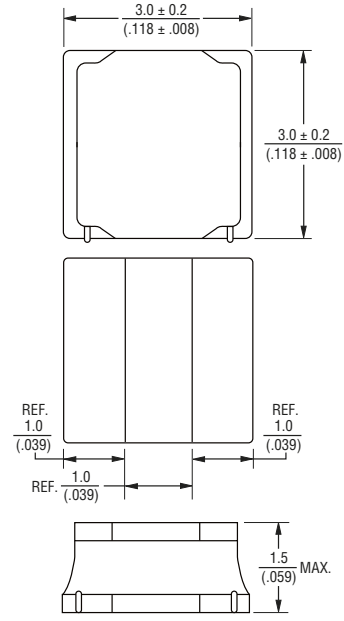
Materials

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

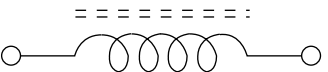
Soldering Profile



Product Dimensions



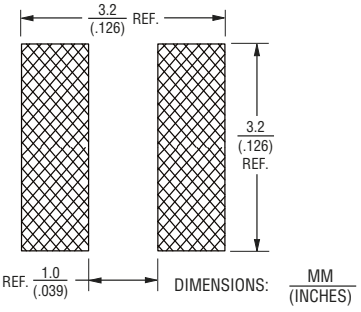
Electrical Schematic



How to Order

Model _____ SRN3015TA - 100M
 Value Code (see table) _____

Recommended Layout



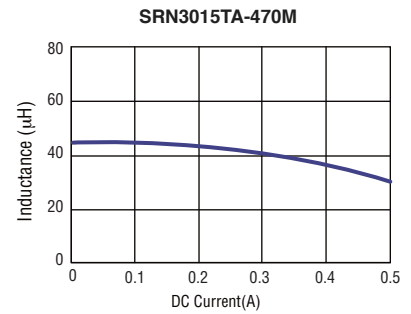
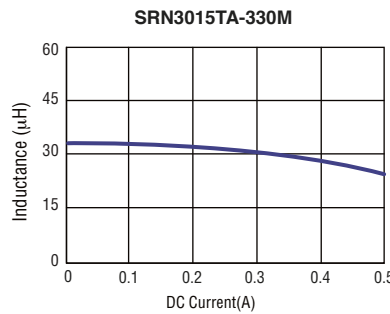
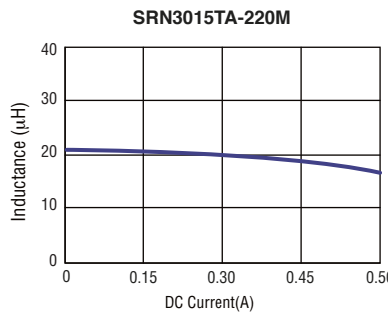
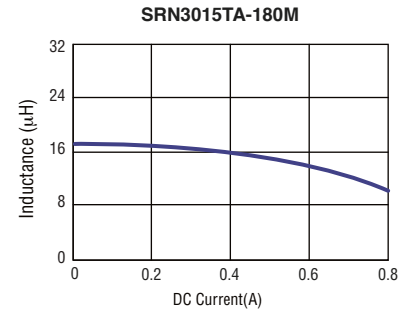
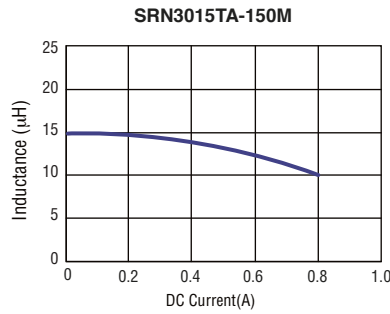
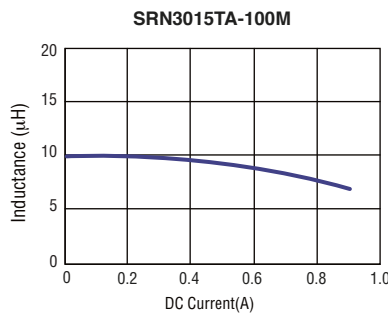
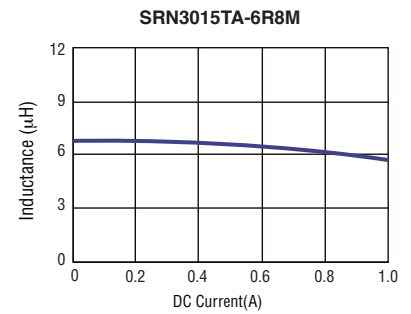
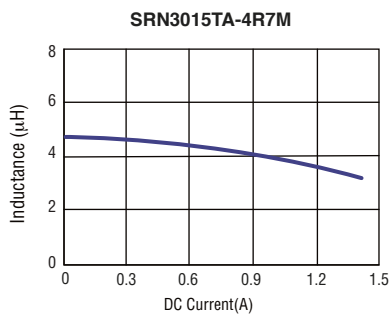
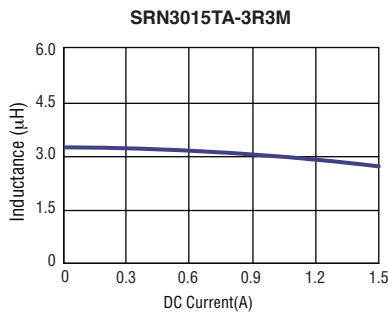
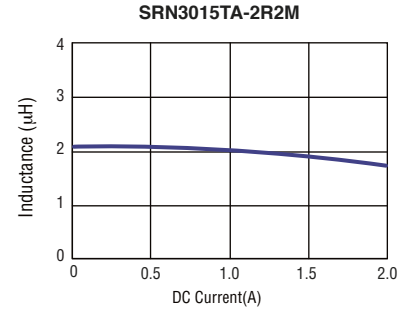
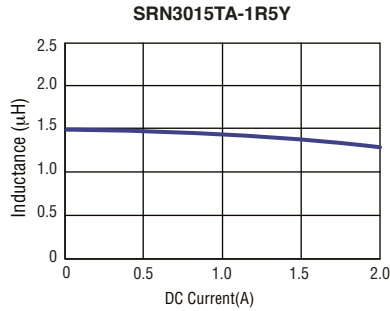
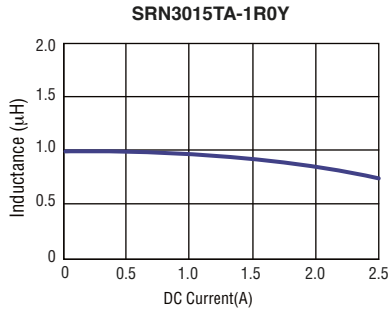
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 **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.
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SRN3015TA Series - Semi-shielded Power Inductors

BOURNS®

Inductance vs. Current

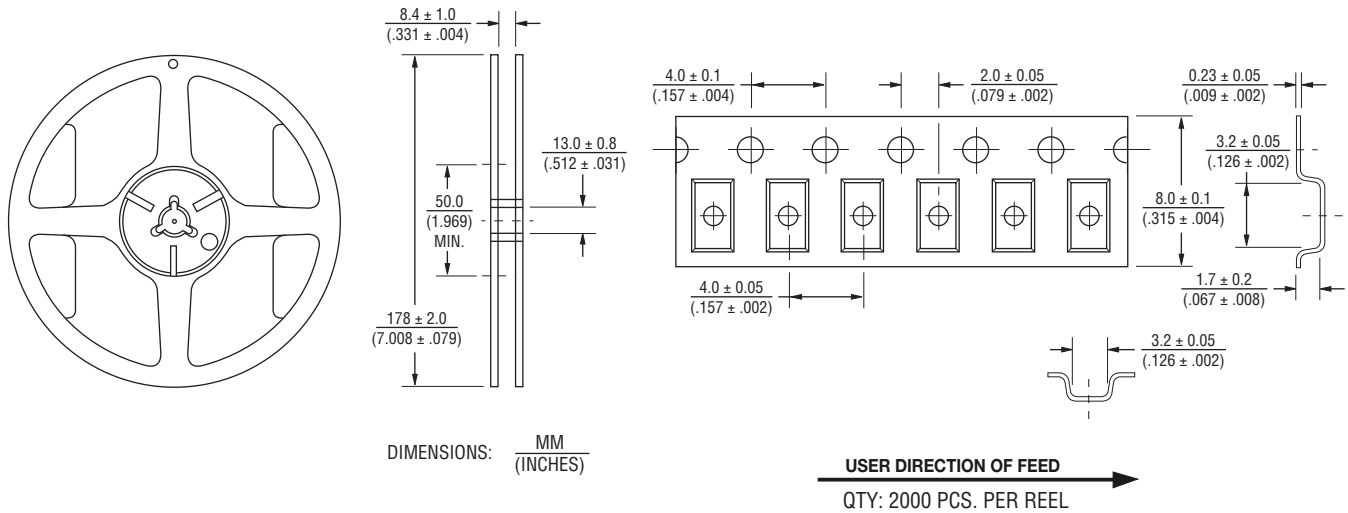


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Packaging Specifications



BOURNS®

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REV. 11/17

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