



## Features

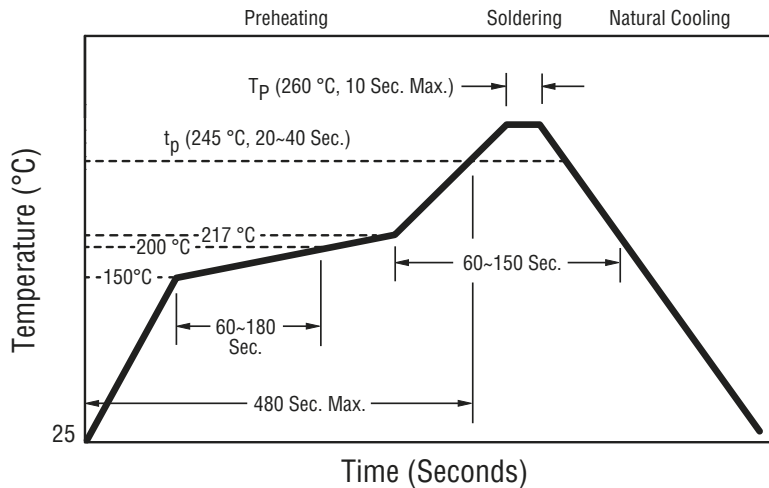
- Semi-shielded construction
- Inductance range: 1 to 47  $\mu\text{H}$
- Rated current up to 2.2 A
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

# SRN3015TA Series - Semi-shielded Power Inductors

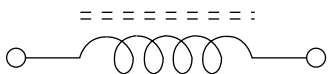
## Electrical Specifications @ 25 °C

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

## Soldering Profile



## Electrical Schematic



## How to Order

Model SRN3015TA - 100M  
 Value Code (see table)

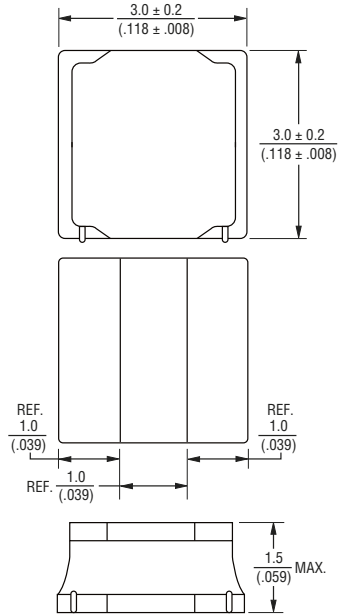
## General Specifications

Operating Temperature ..... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature .. -40 °C to +125 °C  
 Temperature Rise ..... 40 °C at rated I<sub>rms</sub>  
 Rated Current  
 ..... Inductance drops 30 % at I<sub>sat</sub>  
 Failure In Time (FIT) ..... 24.7/10<sup>9</sup> hours  
 Mean Time Between Failures (MTBF)  
 ..... 40.4 x 10<sup>6</sup> hours  
 Moisture Sensitivity Level ..... 1  
 ESD Classification (HBM) ..... N/A

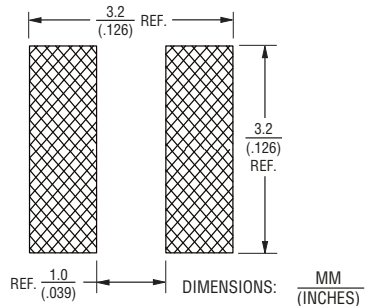
## Materials

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

## Product Dimensions



## Recommended Layout



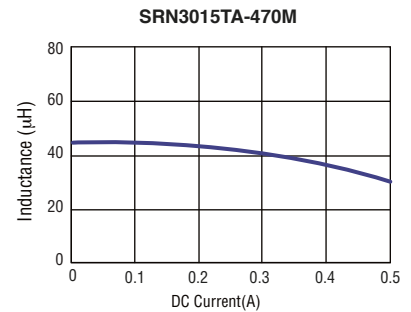
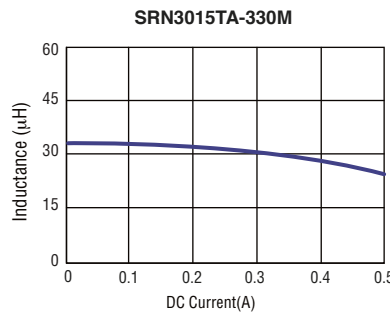
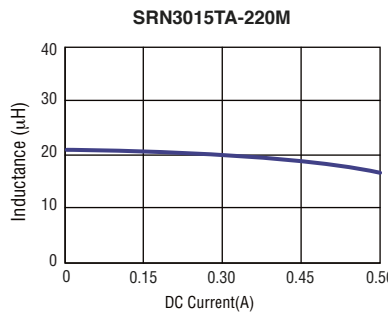
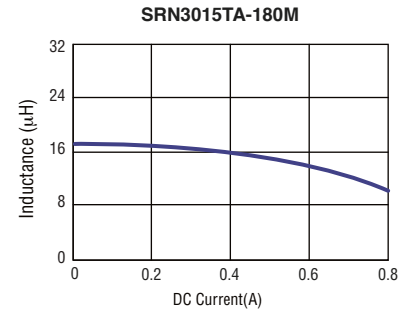
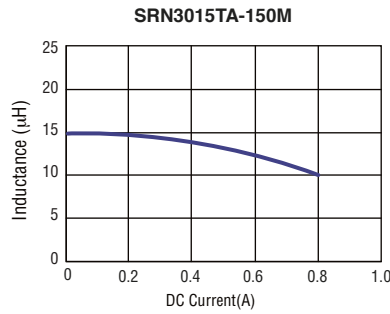
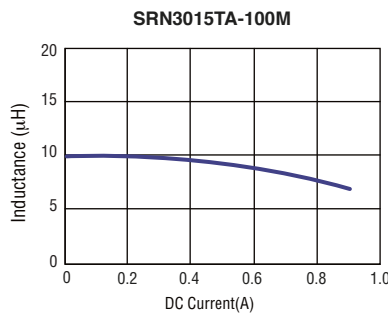
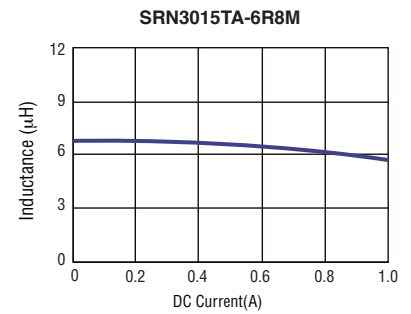
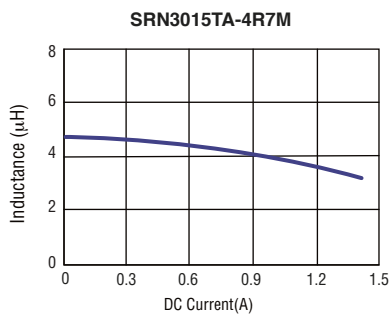
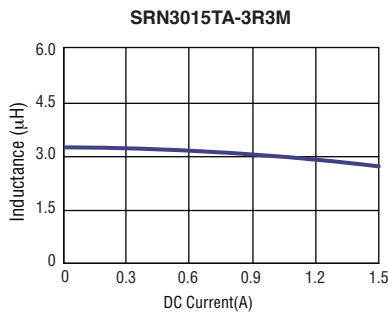
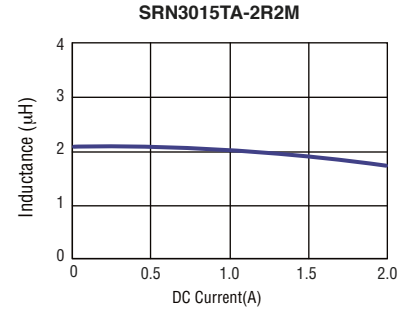
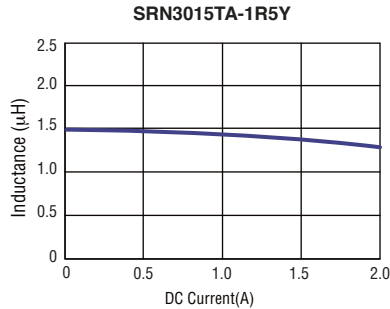
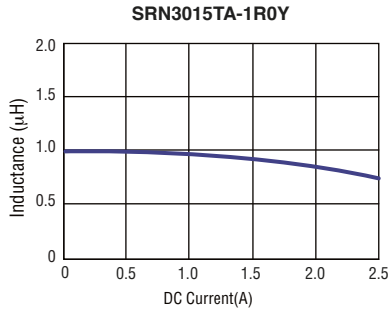
**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\* 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

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## Inductance vs. Current

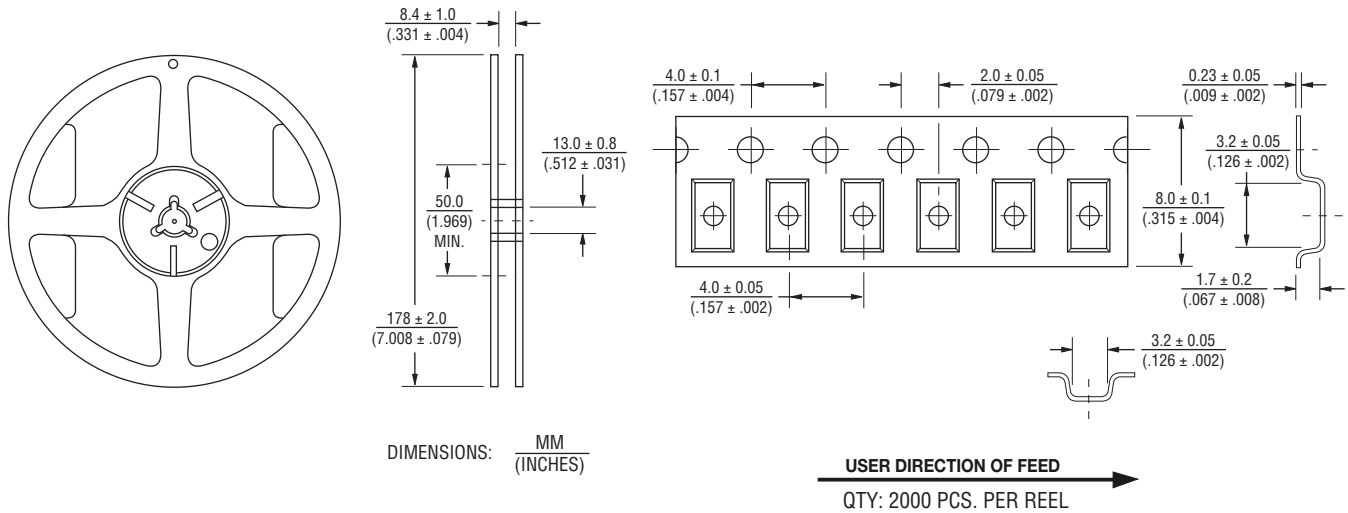


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# SRN3015TA Series - Semi-shielded Power Inductors

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## Packaging Specifications



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REV. 11/17

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