



## Features

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

## Applications

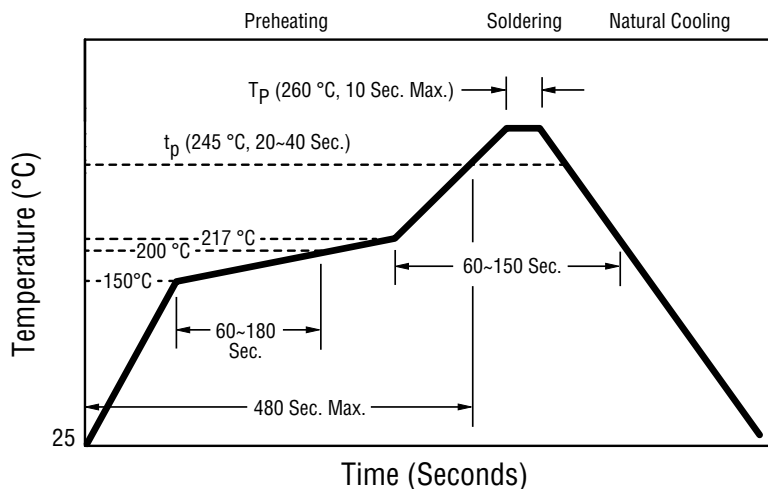
- Automotive systems:
  - Driver assistant
  - Infotainment
  - Lighting
- DC/DC converters
- Power supplies
- Digital video cameras
- HDDs
- Smartphones
- Televisions, LCD displays

# SRN3015TA Series - Semi-shielded Power Inductors

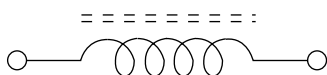
## Electrical Specifications @ 25 °C

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 ( $\mu$ 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-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

SRN3015TA - 100M

Model \_\_\_\_\_

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

## Materials

Core ..... Ferrite

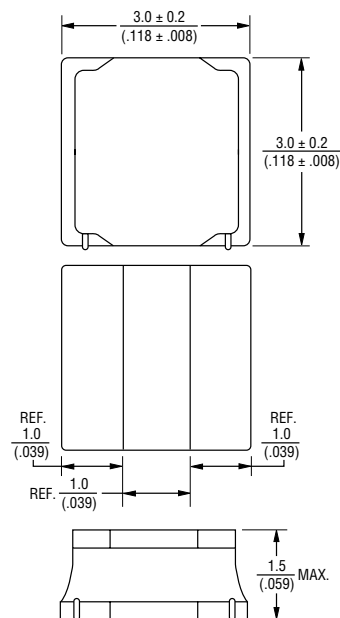
Wire ..... Enameled copper

Terminal Finish ..... Sn

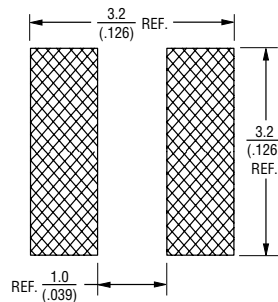
Coating ..... Magnetic epoxy resin

Packaging ..... 2000 pcs. per 7-inch reel

## Product Dimensions



## Recommended Layout



DIMENSIONS: MM  
(INCHES)

\*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.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

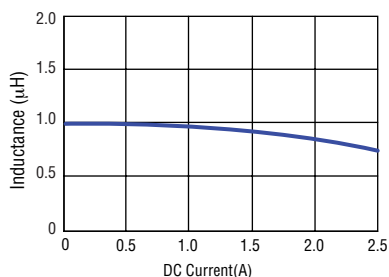
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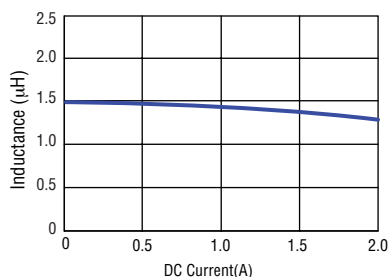
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## Inductance vs. Current

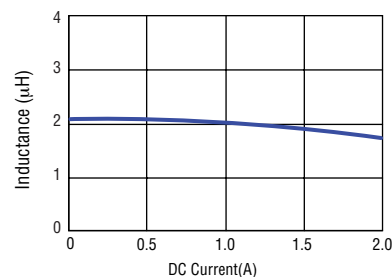
**SRN3015TA-1R0Y**



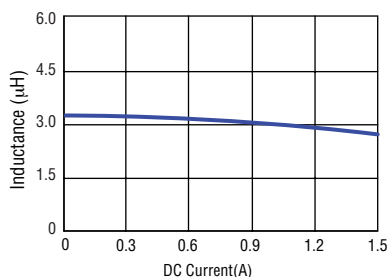
**SRN3015TA-1R5Y**



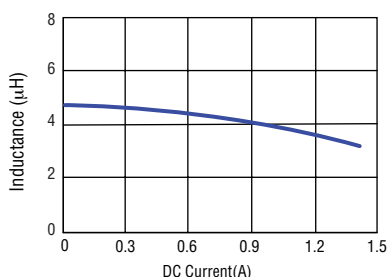
**SRN3015TA-2R2M**



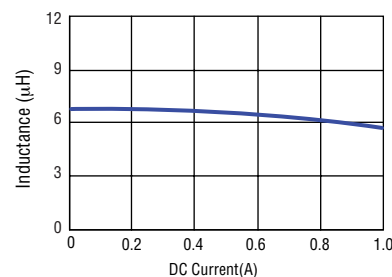
**SRN3015TA-3R3M**



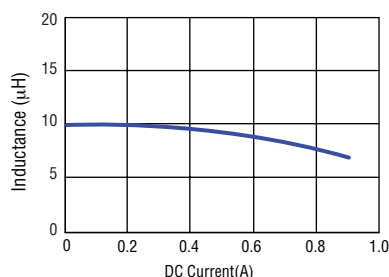
**SRN3015TA-4R7M**



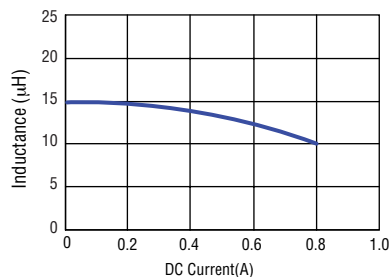
**SRN3015TA-6R8M**



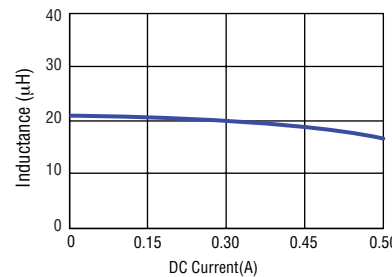
**SRN3015TA-100M**



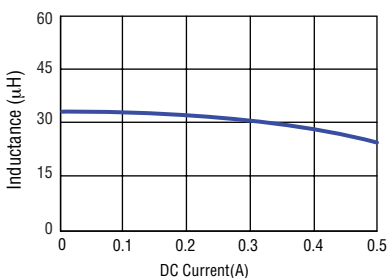
**SRN3015TA-150M**



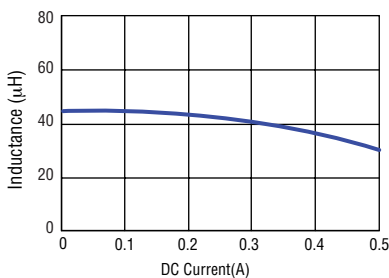
**SRN3015TA-220M**



**SRN3015TA-330M**



**SRN3015TA-470M**



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## Packaging Specifications

