



## Features

- Semi-shielded construction
- Inductance range: 1 to 220  $\mu$ H
- Rated current up to 3.7 A
- AEC-Q200 qualified
- RoHS compliant\* and halogen free\*\*

# SRN4018TA Series - Semi-shielded Power Inductors

## Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 kHz / 1 V		SRF (MHz) Typ.	DCR ( $\Omega$ ) $\pm 20\%$	I <sub>rms</sub> (A) Typ.	I <sub>sat</sub> (A) Typ.
	L ( $\mu$ H)	Tol. %				
SRN4018TA-1R0M	1.0	$\pm 20$	160	0.027	3.7	4
SRN4018TA-1R2M	1.2	$\pm 20$	150	0.028	3.5	3.6
SRN4018TA-1R5M	1.5	$\pm 20$	110	0.032	3.3	3.3
SRN4018TA-2R2M	2.2	$\pm 20$	70	0.042	2.9	3
SRN4018TA-3R3M	3.3	$\pm 20$	60	0.055	2.3	2.3
SRN4018TA-4R7M	4.7	$\pm 20$	50	0.07	2	2
SRN4018TA-6R8M	6.8	$\pm 20$	40	0.098	1.7	1.7
SRN4018TA-100M	10	$\pm 20$	35	0.15	1.5	1.5
SRN4018TA-150M	15	$\pm 20$	25	0.19	1.1	1.1
SRN4018TA-220M	22	$\pm 20$	20	0.29	0.9	0.9
SRN4018TA-330M	33	$\pm 20$	12	0.405	0.75	0.75
SRN4018TA-470M	47	$\pm 20$	10	0.55	0.6	0.6
SRN4018TA-680M	68	$\pm 20$	10	0.89	0.55	0.55
SRN4018TA-101M	100	$\pm 20$	8	1.38	0.45	0.45
SRN4018TA-151M	150	$\pm 20$	5	1.97	0.35	0.35
SRN4018TA-221M	220	$\pm 20$	5	3	0.3	0.3

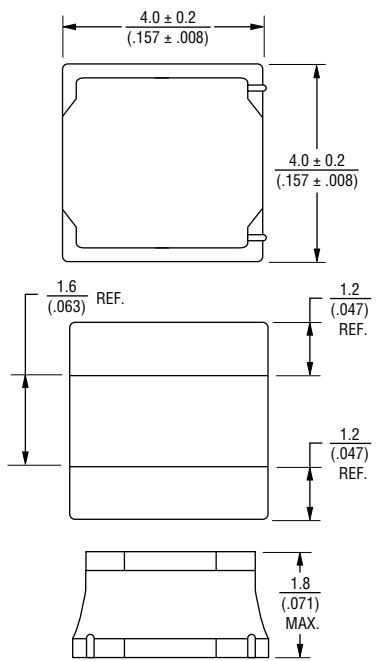
## General Specifications

Operating Temperature ..... -55 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature .. -55 °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

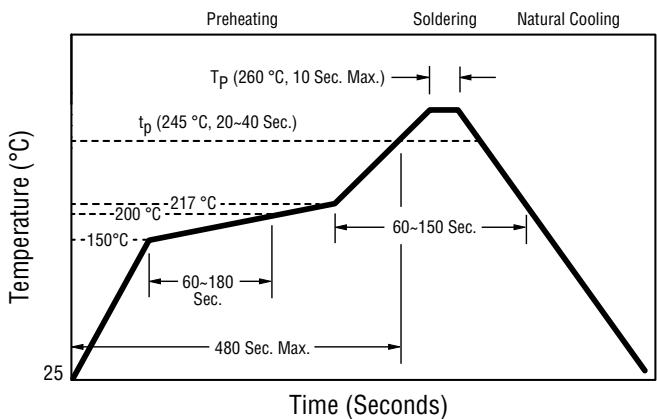
## Materials

Core ..... Ferrite  
 Wire ..... Enameled copper  
 Terminal Finish ..... Sn  
 Coating ..... Magnetic epoxy resin  
 Packaging ..... 3000 pcs. per 13-inch reel

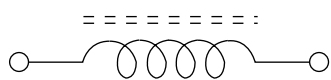
## Product Dimensions



## Soldering Profile



## Electrical Schematic



## How to Order

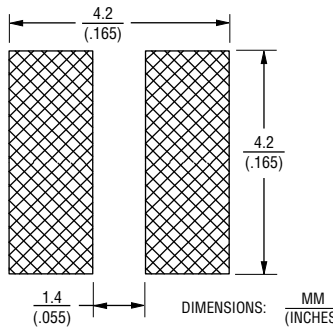
Model **SRN4018TA - 100M**  
 Value Code (see table)



**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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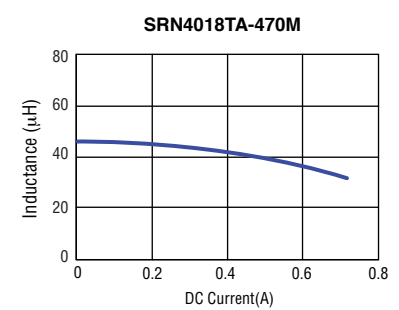
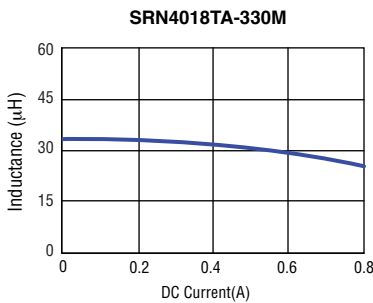
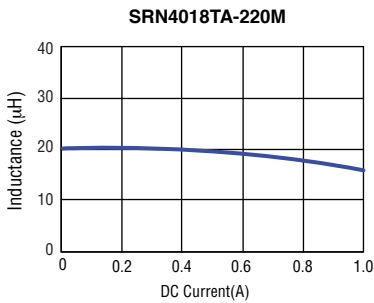
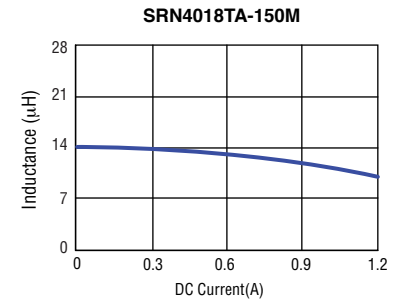
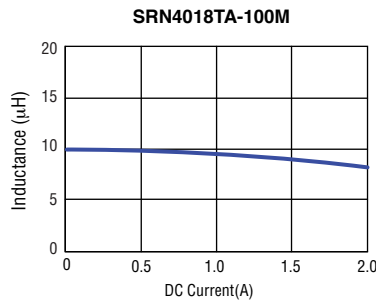
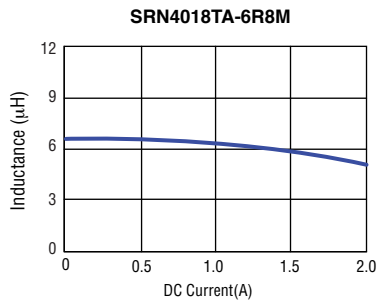
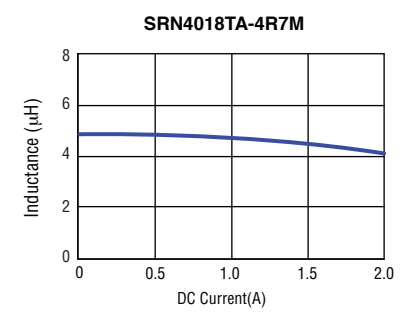
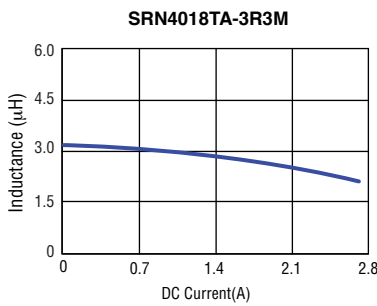
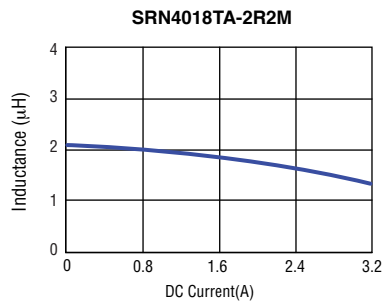
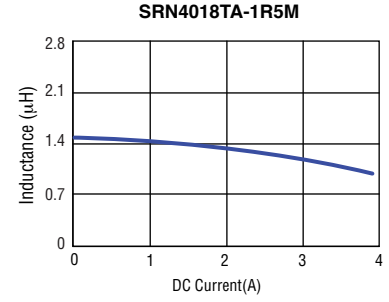
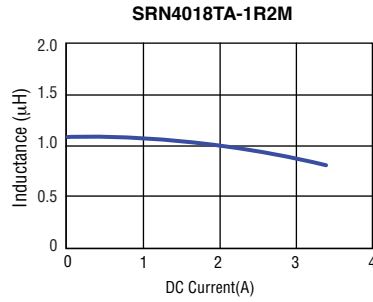
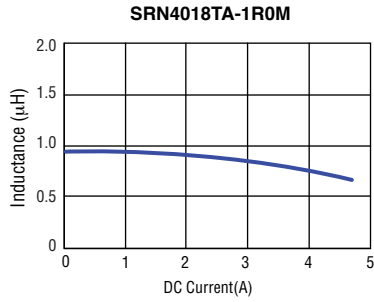
## Recommended Layout



# SRN4018TA Series - Semi-shielded Power Inductors

**BOURNS®**

## Inductance vs. Current



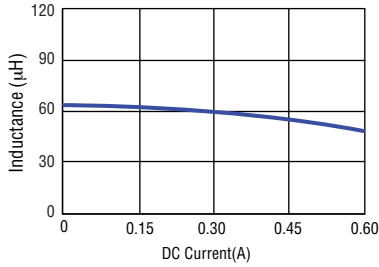
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# SRN4018TA Series - Semi-shielded Power Inductors

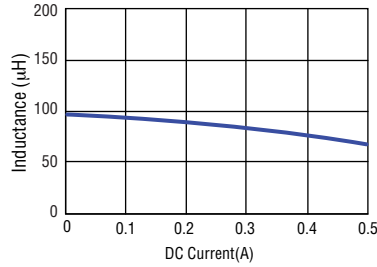
**BOURNS®**

## Inductance vs. Current

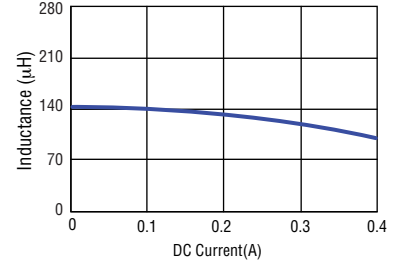
SRN4018TA-680M



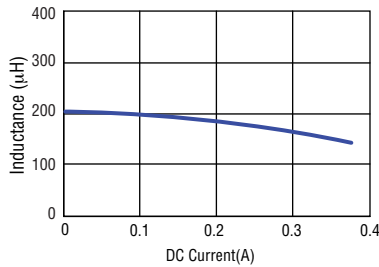
SRN4018TA-101M



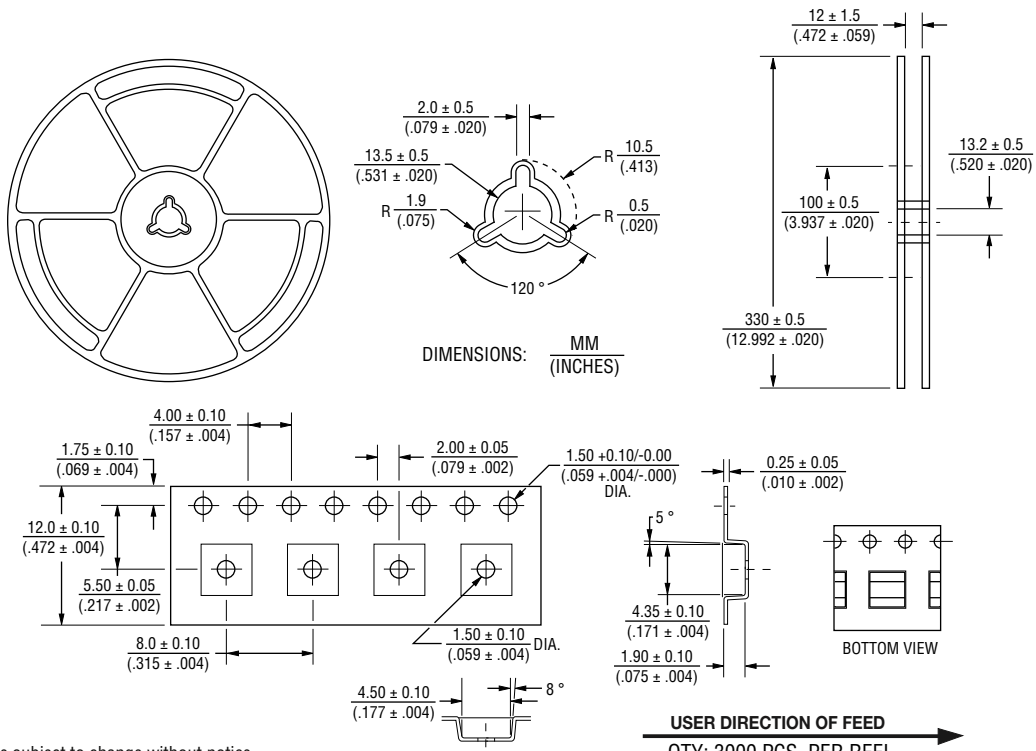
SRN4018TA-151M



SRN4018TA-221M



## Packaging Specifications



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**SRN4018TA Series - Semi-shielded Power Inductors**

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