



### Features

- Semi-shielded construction
- Miniature size
- Low profile - 1.8 mm max.
- Inductance range: 0.82 to 220  $\mu$ H
- High rated current - up to 4.0 A
- RoHS compliant\* and halogen free\*\*

### Applications

- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

## SRN4018 Series - Semi-shielded Power Inductors

### Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 KHz/1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR ( $\Omega$ ) Max.	I <sub>rms</sub> (A)	I <sub>sat</sub> (A)
	L ( $\mu$ H)	Tol. %						
SRN4018-R82Y	0.82	30	9	7.96	100	0.019	4.0	4.7
SRN4018-1R0Y	1.0	30	9	7.96	90	0.023	3.7	4.2
SRN4018-1R2Y	1.2	30	9	7.96	80	0.025	3.5	4.0
SRN4018-1R5Y	1.5	30	9	7.96	70	0.032	3.1	3.5
SRN4018-2R2M	2.2	20	9	7.96	60	0.044	2.9	3.0
SRN4018-2R7M	2.7	20	9	7.96	52	0.052	2.3	2.4
SRN4018-3R3M	3.3	20	9	7.96	45	0.066	2.2	2.3
SRN4018-4R7M	4.7	20	9	7.96	35	0.084	1.9	2.0
SRN4018-6R8M	6.8	20	9	7.96	30	0.118	1.5	1.6
SRN4018-100M	10	20	11	2.52	25	0.180	1.3	1.4
SRN4018-150M	15	20	11	2.52	18	0.264	1.0	1.1
SRN4018-220M	22	20	11	2.52	15	0.348	0.9	0.95
SRN4018-330M	33	20	11	2.52	12	0.552	0.7	0.75
SRN4018-470M	47	20	11	2.52	10	0.780	0.6	0.62
SRN4018-680M	68	20	11	2.52	8	1.128	0.5	0.50
SRN4018-101M	100	20	23	0.796	6	1.596	0.42	0.45
SRN4018-151M	150	20	23	0.796	5	2.400	0.32	0.35
SRN4018-221M	220	20	30	0.796	3	3.552	0.28	0.30
SRN4018-331M	330	20	30	0.796	6	6.36	0.2	0.21

### General Specifications

Operating Temperature ..... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature (Component) ..... -40 °C to +125 °C  
 Resistance to Solder Heat ..... +260 °C for 10 sec.  
 Temperature Rise ..... 40 °C at rated I<sub>rms</sub>  
 Rated Current ..... Inductance drops 30 % at I<sub>sat</sub>  
 Moisture Sensitivity Level ..... 1  
 ESD Classification (HBM) ..... N/A

### Materials

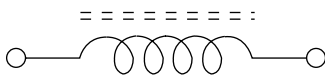
Core ..... Ferrite  
 Wire ..... Enameled copper  
 Terminal Finish ..... Sn/Ag/Cu  
 Coating ..... Magnetic epoxy resin  
 Packaging ..... 3000 pcs. per 13-inch reel

### How to Order

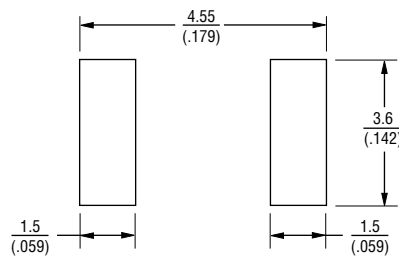
**SRN4018 - 100M**

Model \_\_\_\_\_  
 Value Code (see table) \_\_\_\_\_

### Electrical Schematic

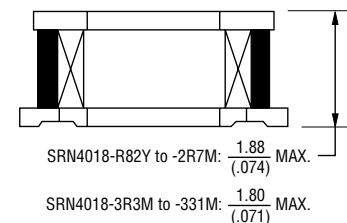
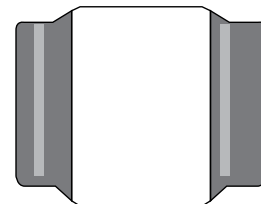
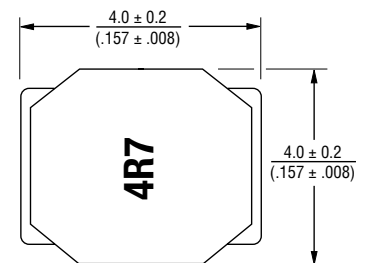


### Recommended Layout



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

### Product Dimensions



**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.

Specifications are subject to change without notice.

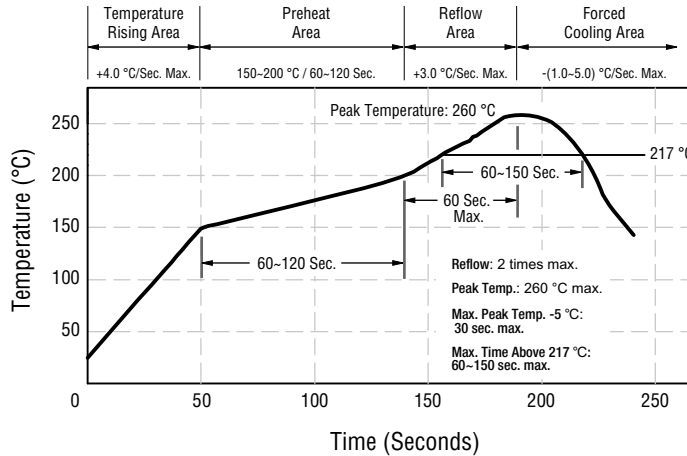
Users should verify actual device performance in their specific applications.

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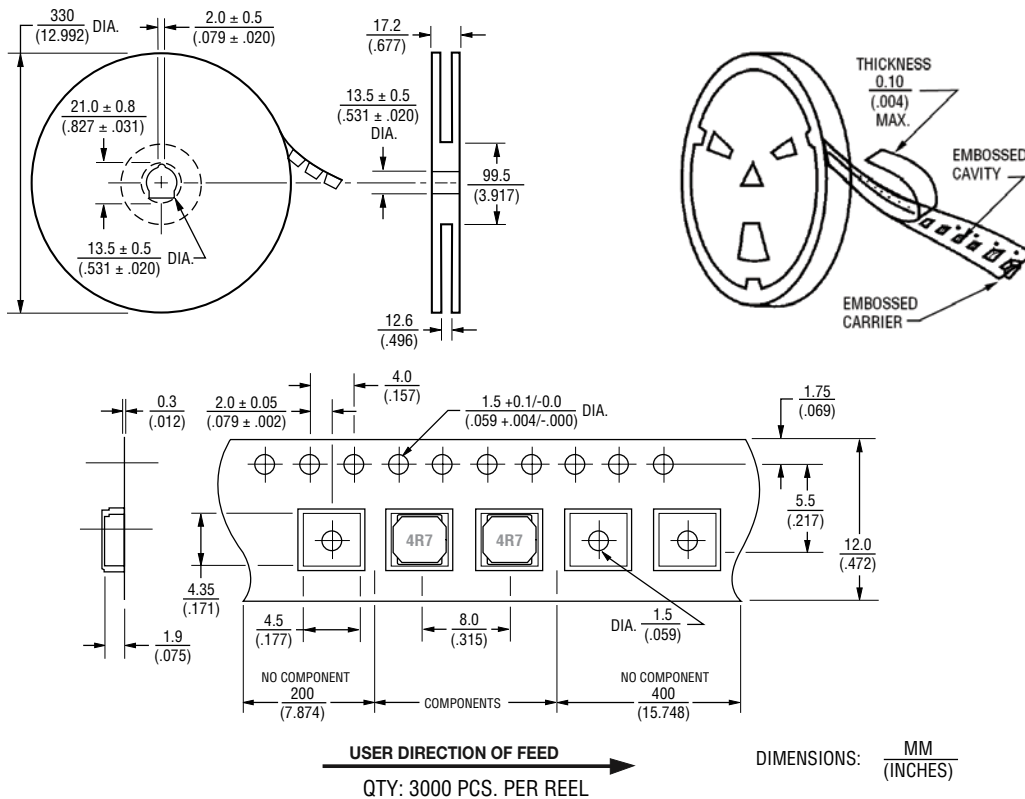
# SRN4018 Series - Semi-shielded Power Inductors

**BOURNS®**

## Soldering Profile



## Packaging Specifications



REV. 06/19

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