



**THE DATASHEET OF  
SRN4018-R82Y**





### 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

### Additional Information

Click these links for more information:



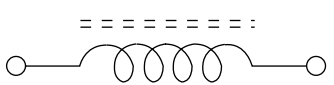
### General Specifications

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

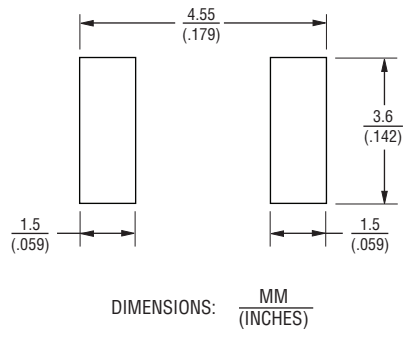
### Electrical Schematic



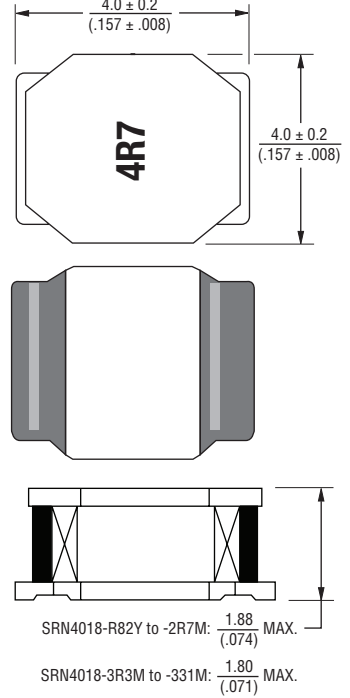
### How to Order

**SRN4018 - 100M**  
 Model \_\_\_\_\_  
 Value Code (see table) \_\_\_\_\_

### Recommended Layout



### Product Dimensions



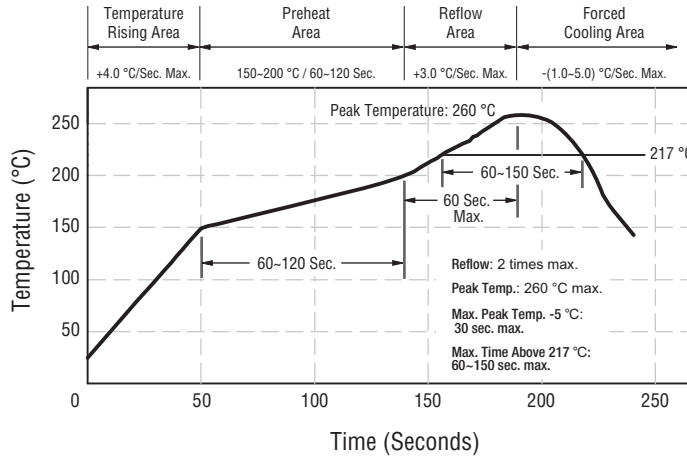
**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.  
 \*\* 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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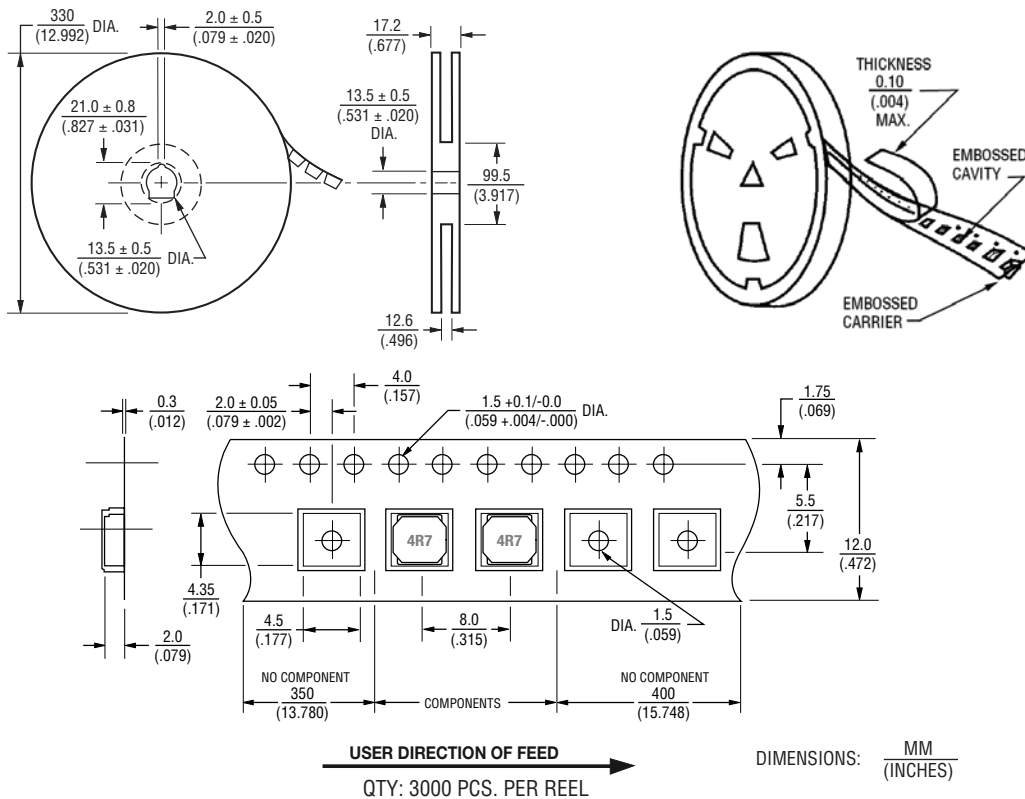
# SRN4018 Series - Semi-shielded Power Inductors

**BOURNS®**

## Soldering Profile



## Packaging Specifications



REV. 01/22

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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