



## Features

- Semi-shielded construction
- Miniature size
- Component height 1.5 mm
- Inductance range: 1 to 100  $\mu$ H
- Rated current up to 2.35 A
- RoHS compliant\* and halogen free\*\*

## Applications

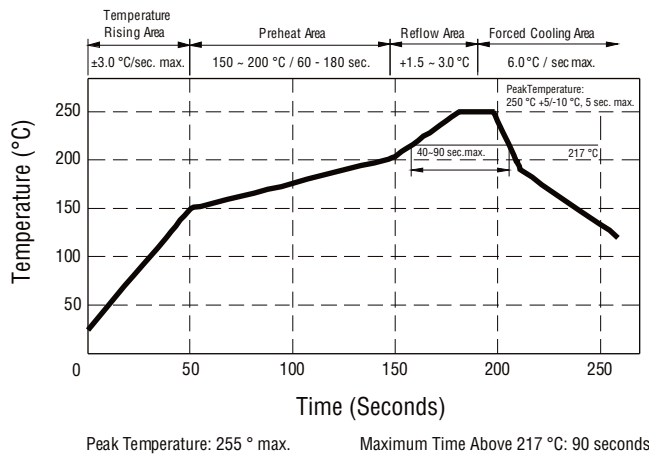
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

# SRN3015 Series - Semi-shielded Power Inductors

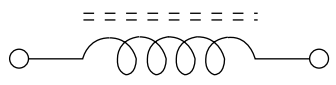
## Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 0.1 V / 1 MHz		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR ( $\Omega$ ) Max.	SRF (MHz) Min.	Irms (A)	Isat (A)
	L ( $\mu$ H)	Tol. %							
SRN3015-1R0Y	1.0	$\pm 30$	10	7.96	105	0.048	145	2.35	2.35
SRN3015-1R5Y	1.5	$\pm 30$	10	7.96	90	0.066	130	2.10	2.00
SRN3015-2R2M	2.2	$\pm 20$	10	7.96	70	0.072	90	1.80	1.65
SRN3015-3R3M	3.3	$\pm 20$	10	7.96	47	0.112	75	1.60	1.40
SRN3015-4R7M	4.7	$\pm 20$	10	7.96	43	0.136	65	1.40	1.20
SRN3015-6R8M	6.8	$\pm 20$	10	7.96	35	0.211	50	1.10	1.05
SRN3015-100M	10	$\pm 20$	10	2.52	30	0.276	45	1.00	0.88
SRN3015-150M	15	$\pm 20$	17	2.52	22	0.422	33	0.80	0.68
SRN3015-180M	18	$\pm 20$	17	2.52	20	0.546	30	0.65	0.62
SRN3015-220M	22	$\pm 20$	17	2.52	16	0.622	28	0.60	0.58
SRN3015-330M	33	$\pm 20$	20	2.52	14	0.959	22	0.50	0.46
SRN3015-470M	47	$\pm 20$	27	2.52	11	1.406	18	0.40	0.38
SRN3015-101M	100	$\pm 20$	27	2.52	7.5	2.920	11	0.29	0.27

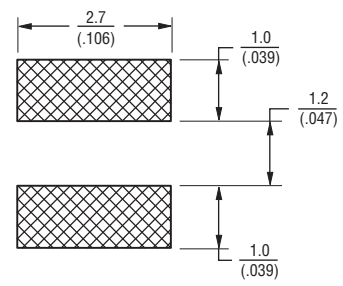
## Soldering Profile



## Electrical Schematic



## Recommended Layout



## General Specifications

Operating Temperature ..... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature .... -40 °C to +85 °C  
 Resistance to Solder Heat ..... +260 °C for 10 sec.  
 Temperature Rise ..... 40 °C at rated Irms  
 Rated Current ..... Inductance drops 30 % at Isat  
 Moisture Sensitivity Level ..... 1  
 ESD Classification (HBM)..... N/A

## Materials

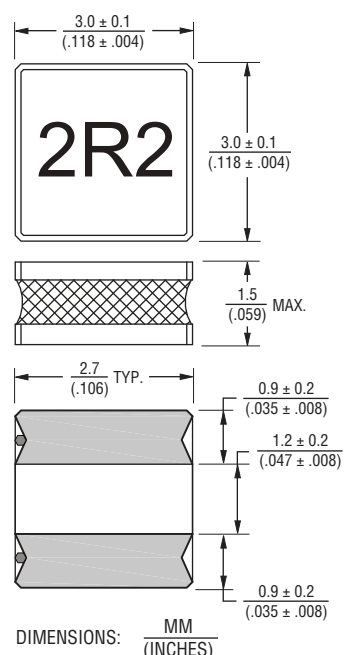
Core ..... Ferrite  
 Wire ..... Enameled copper  
 Terminal Finish ..... Sn/Ag/Cu  
 Coating ..... Magnetic epoxy resin  
 Packaging ..... 2000 pcs. per 7-inch reel

## How to Order

**SRN3015 - 100M**

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

## Product Dimensions



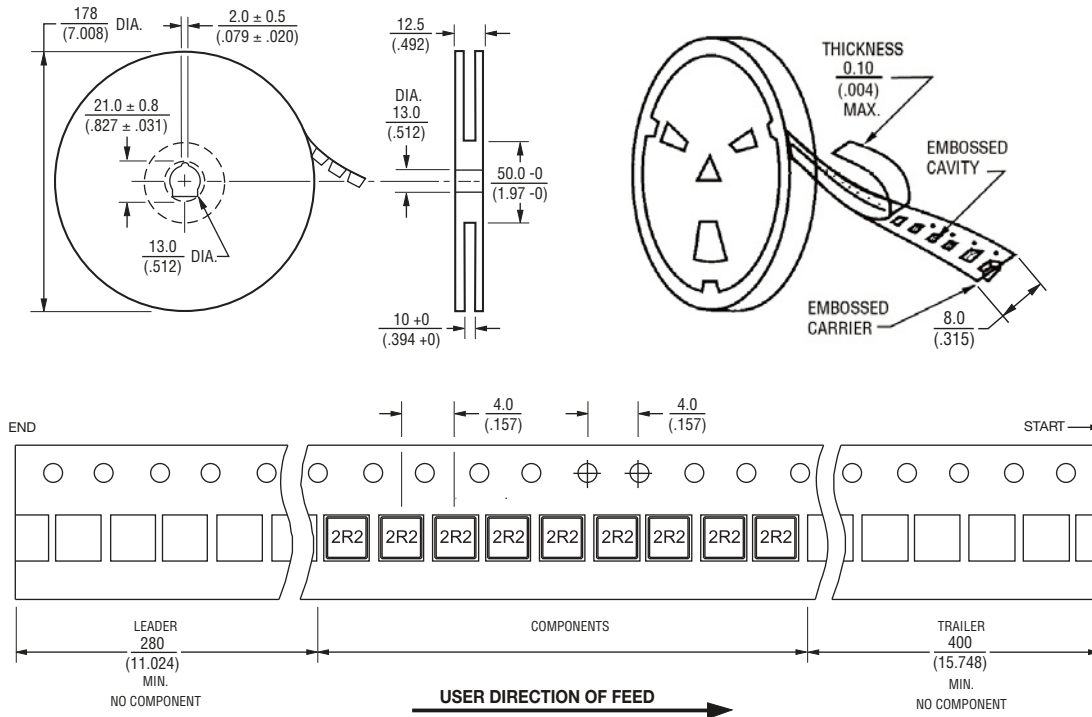
**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\* RoHS Directive 2002/95/EC Jan 27, 2003 including Annex.  
 \*\* 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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# SRN3015 Series - Semi-shielded Power Inductors

**BOURNS®**

## Packaging Specifications



QTY: 2000 PCS. PER REEL

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

**BOURNS®**

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

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