

## Features

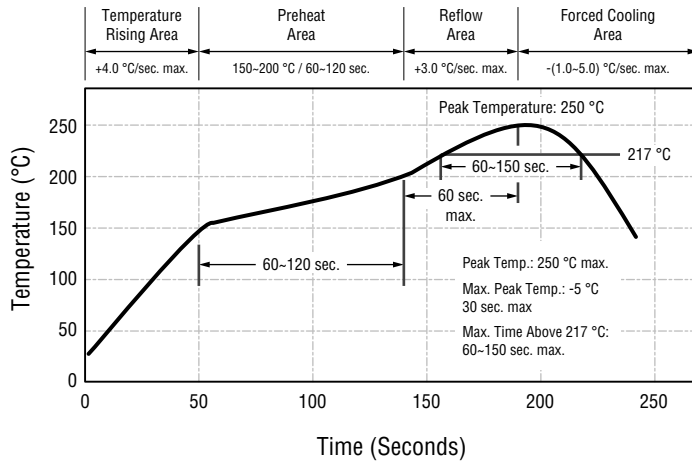
- Semi-shielded construction
- High operating temperature
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

## SRN3030HA Series - Semi-shielded Power Inductors

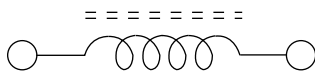
### Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 kHz / 0.1 V		Q Typ.	Q Test Freq. (MHz)	SRF (MHz) Typ.	DCR (mΩ) Max.	I <sub>rms</sub> (A) Typ.	I <sub>sat</sub> (A) Typ.
	L (μH)	Tol. %						
SRN3030HA-1R0Y	1.00	30	13	7.96	122	55.0	2.60	5.00
SRN3030HA-2R2Y	2.20	30	14	7.96	66	85.0	2.10	3.50
SRN3030HA-4R7Y	4.70	30	15	7.96	37	200.0	1.40	2.40
SRN3030HA-100M	10.00	20	20	2.52	25	450.0	0.90	1.60
SRN3030HA-220M	22.00	20	25	2.52	16	1100.0	0.55	1.10
SRN3030HA-470M	47.00	20	27	2.52	10	2050.0	0.35	0.75
SRN3030HA-101M	100.00	20	33	0.796	7	5000.0	0.25	0.50

### Soldering Profile



### Electrical Schematic

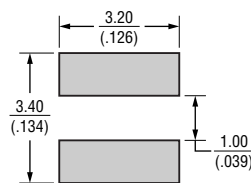


### How to Order

**SRN3030HA - 1R0Y**

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

### Recommended Layout



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

### Additional Information

Click these links for more information:



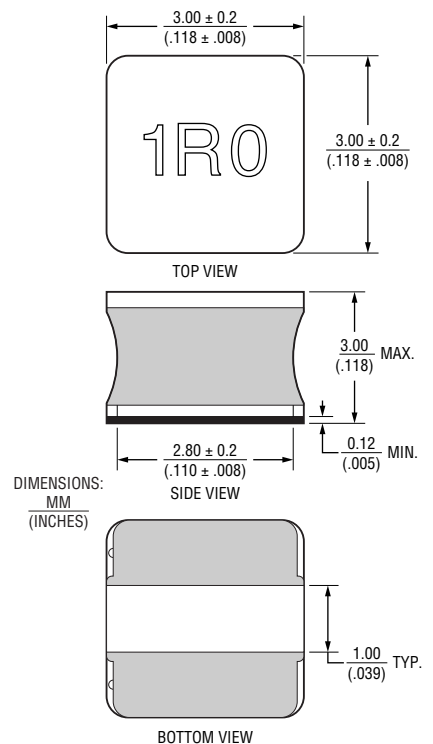
### General Specifications

Operating Temperature ..... -55 °C to +150 °C  
(Temperature rise included)  
Storage Temperature (Component) ..... -55 °C to +150 °C  
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 ..... 700 pcs. per 7-inch reel

### Product Dimensions



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

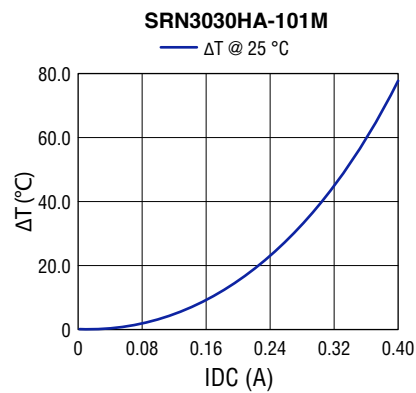
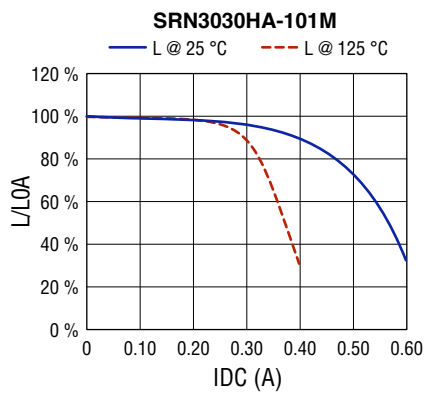
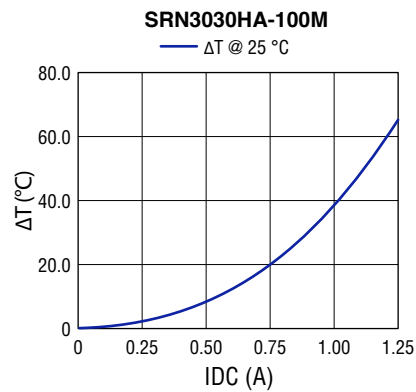
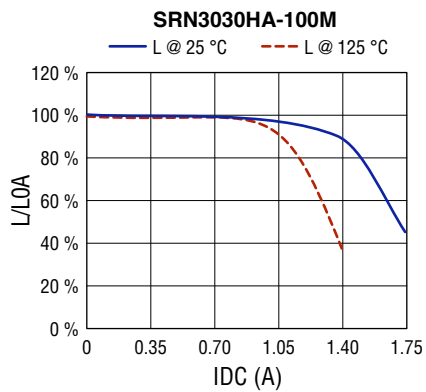
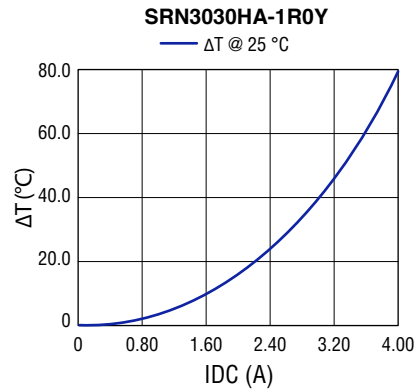
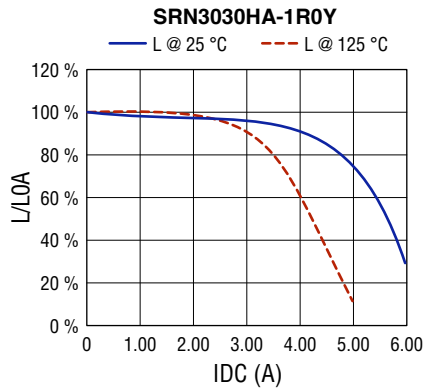
\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.  
\*\* Bourns considers a product to be "halogen free" if  
(a) the Bromine (Br) content is 900 ppm or less;  
(b) the Chlorine (Cl) content is 900 ppm or less; and  
(c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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# SRN3030HA Series - Semi-shielded Power Inductors

**BOURNS®**

## Inductance vs. IDC and Temperature Rise vs. IDC



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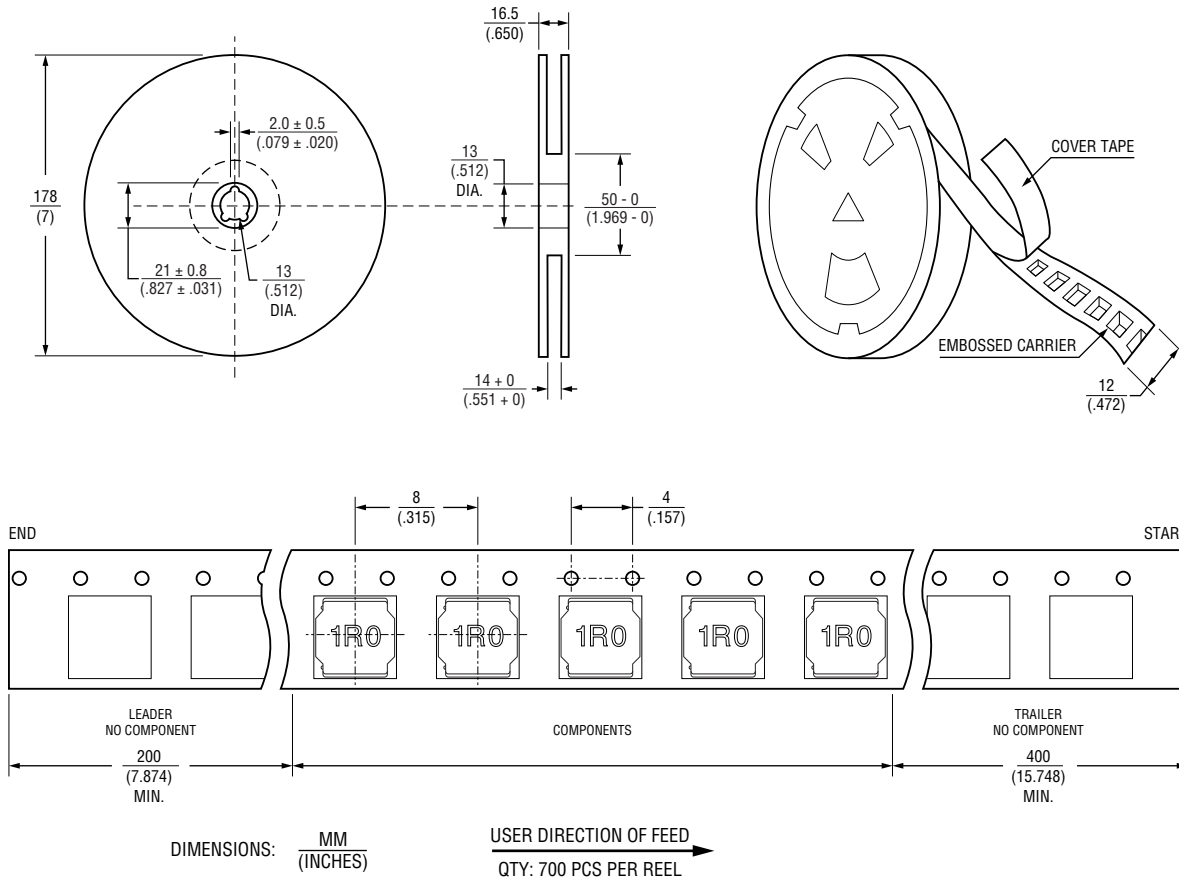
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# SRN3030HA Series - Semi-shielded Power Inductors

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## Packaging Specifications



**BOURNS®**

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The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

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