

#### **Features**

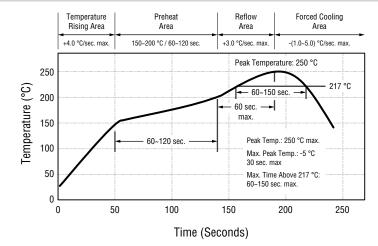
- Semi-shielded construction
- High operating temperature
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

# SRN4030HA Series - Semi-shielded Power Inductors

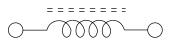
#### Electrical Specifications @ 25 °C

	Inductance @ 100 kHz / 0.1 V			Q Test Freg.	SRF (MHz)	DCR (mΩ)	Irms (A)	Isat (A)
Bourns Part No.	<b>L (μH)</b>	Tol. %	Q Typ.	(MHz)	Typ.	Max.	Typ.	Typ.
SRN4030HA-1R0Y	1.00	30	15	7.96	100	20.0	5.50	7.80
SRN4030HA-2R2Y	2.20	30	14	7.96	47	30.0	4.30	4.90
SRN4030HA-3R3Y	3.30	30	13	7.96	39	50.0	3.40	4.00
SRN4030HA-4R7Y	4.70	30	13	7.96	31	60.0	3.10	3.50
SRN4030HA-100M	10.00	20	17	2.52	20	180.0	1.80	2.20
SRN4030HA-220M	22.00	20	18	2.52	13	330.0	1.20	1.50
SRN4030HA-470M	47.00	20	19	2.52	8	650.0	0.85	1.05
SRN4030HA-101M	100.00	20	26	0.796	7	1450.0	0.55	0.70

#### **Soldering Profile**



## **Electrical Schematic**

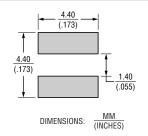


## **How to Order**

SRN4030HA - 1R0Y

Model Value Code (see table)

## **Recommended Layout**





#### **WARNING Cancer and Reproductive Harm** 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 (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

#### **Additional Information**

Click these links for more information:











**INVENTORY SAMPLES** 

### **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 Irms

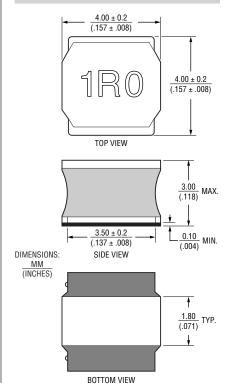
Rated Current

..... Inductance drops 30 % at Isat Moisture Sensitivity Level.....1 ESD Classification (HBM).....N/A

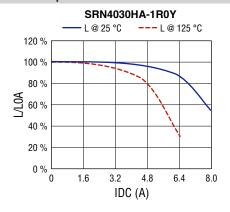
#### **Materials**

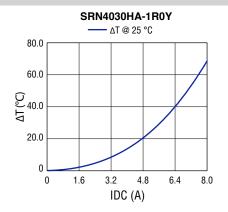
Wire ......Enameled copper Terminal Finish ...... Sn/Ag/Cu Coating ......Magnetic epoxy resin Packaging...... 600 pcs. per 7-inch reel

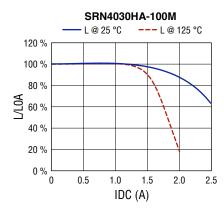
#### **Product Dimensions**

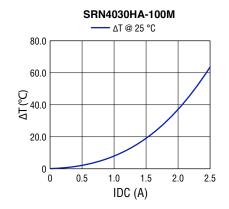


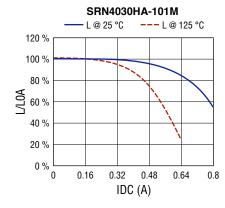
## Inductance vs. IDC and Temperature Rise vs. IDC

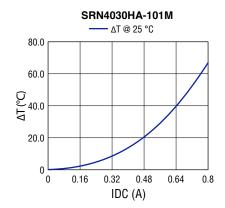




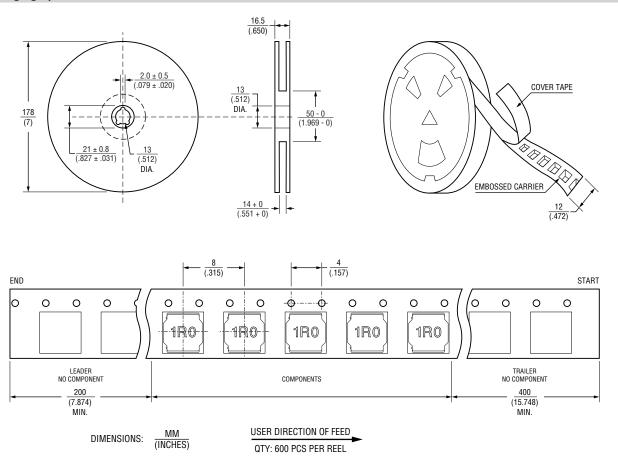








#### **Packaging Specifications**



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#### 02/22

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