Features

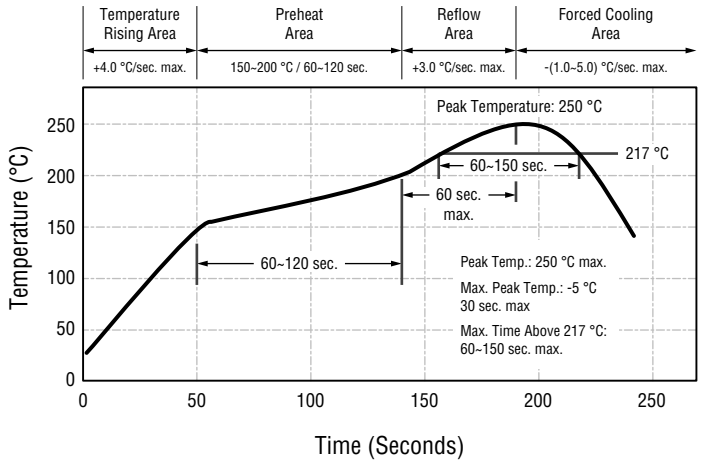
- Semi-shielded construction
- High operating temperature
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRN5030HA Series - Semi-shielded Power Inductors

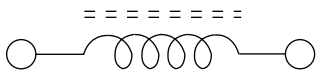
Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 kHz / 0.1 V		Q Typ.	Q Test Freq. (MHz)	SRF (MHz) Typ.	DCR (mΩ) Max.	Irms (A) Typ.	Isat (A) Typ.
	L (µH)	Tol. %						
SRN5030HA-R47Y	0.47	30	14.0	7.96	171.0	12.0	7.00	10.00
SRN5030HA-1R0Y	1.00	30	14.0	7.96	124.0	18.0	5.00	7.20
SRN5030HA-1R5Y	1.50	30	13.0	7.96	67.0	26.0	4.20	6.40
SRN5030HA-2R2Y	2.20	30	14.0	7.96	57.0	33.0	3.70	4.90
SRN5030HA-4R7Y	4.70	30	13.0	7.96	39.0	53.0	2.70	3.50
SRN5030HA-100M	10.00	20	18.0	2.52	24.0	105.0	1.70	2.10
SRN5030HA-220M	22.00	20	14.0	2.52	15.0	220.0	1.30	1.40
SRN5030HA-470M	47.00	20	16.0	2.52	10.0	450.0	0.80	0.95
SRN5030HA-101M	100.00	20	30.0	0.796	7.0	1400.0	0.45	0.65

Soldering Profile



Electrical Schematic



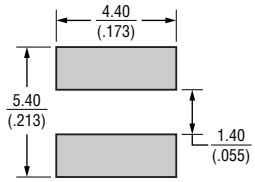
How to Order

SRN5030HA - 1R0Y

Model

Value Code (see table)

Recommended Layout



DIMENSIONS: MM (INCHES)

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

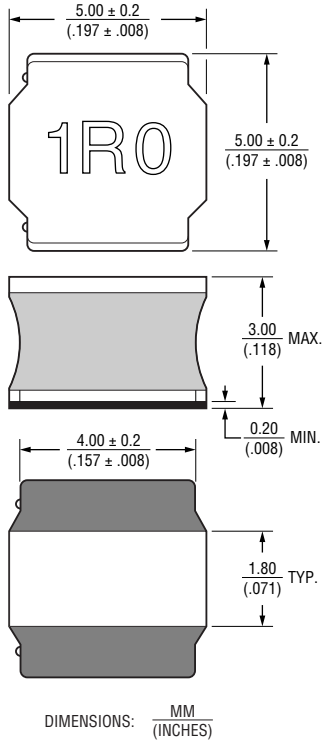
General Specifications

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

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

Product Dimensions



DIMENSIONS: MM (INCHES)

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 (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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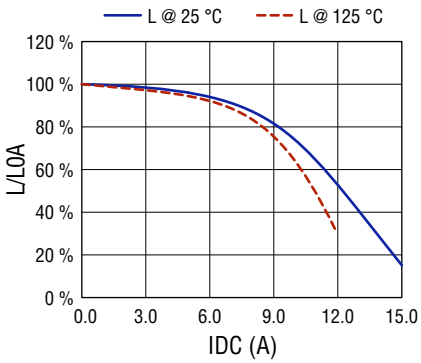
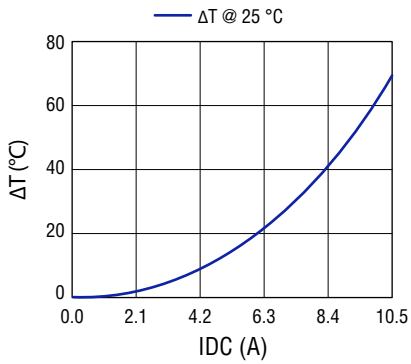
Inductance vs. IDC and Temperature Rise vs. IDC

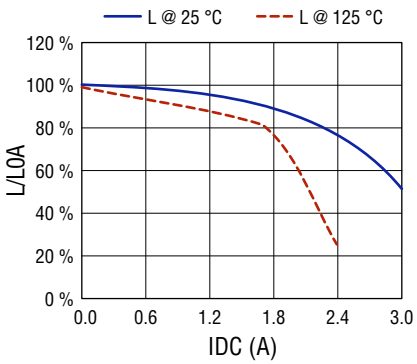
SRN5030HA-4R7Y



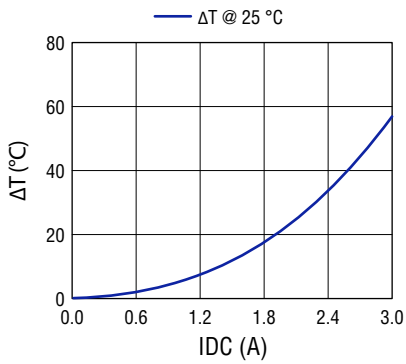
SRN5030HA-4R7Y



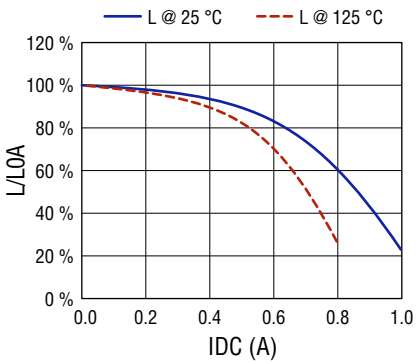
SRN5030HA-100M



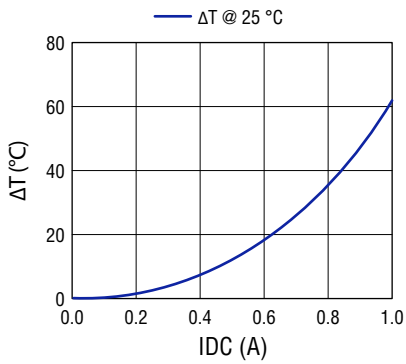
SRN5030HA-100M



SRN5030HA-101M



SRN5030HA-101M



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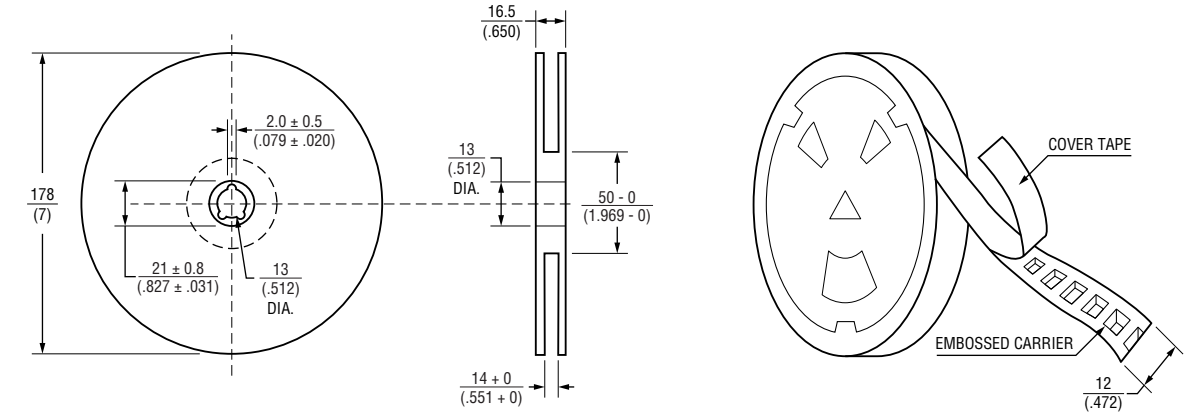
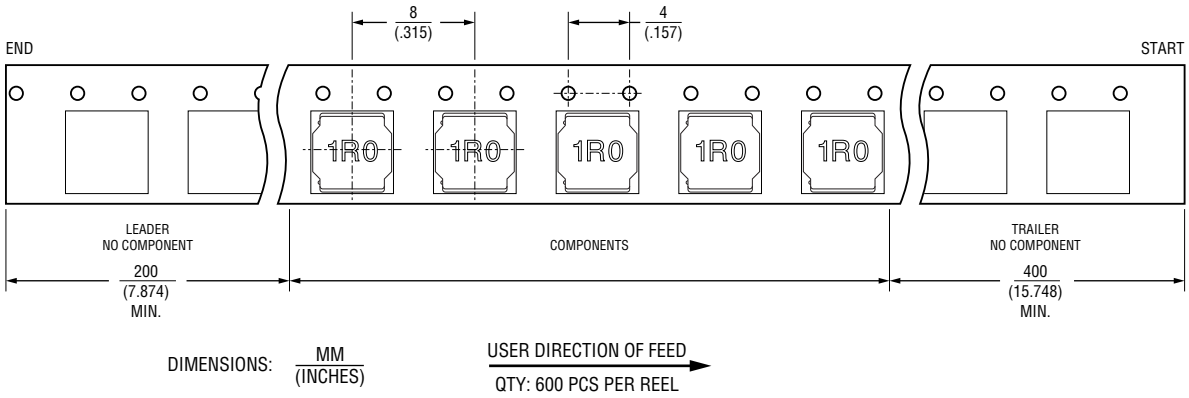
Packaging Specifications





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