

SRN5030HA-1R0Y Datasheet

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DiGi Electronics Part Number	SRN5030HA-1R0Y-DG
Manufacturer	Bourns Inc.
Manufacturer Product Number	SRN5030HA-1R0Y
Description	IND,5X5X3MM,1UH30%,7.2A,150C,SHD
Detailed Description	1 μ H Semi-Shielded Drum Core, Wirewound Induct or 5 A 18mOhm Max Nonstandard



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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

SRN5030HA-1R0Y

Series:

SRN5030HA

Type:

Drum Core, Wirewound

Inductance:

1 μ H

Current Rating (Amps):

5 A

Shielding:

Semi-Shielded

Q @ Freq:

14 @ 7.96MHz

Ratings:

AEC-Q200

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.118" (3.00mm)

Manufacturer:

Bourns Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 30%

Current - Saturation (Isat):

7.2A

DC Resistance (DCR):

18mOhm Max

Frequency - Self Resonant:

124MHz

Operating Temperature:

-55°C ~ 150°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.197" L x 0.197" W (5.00mm x 5.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



Features

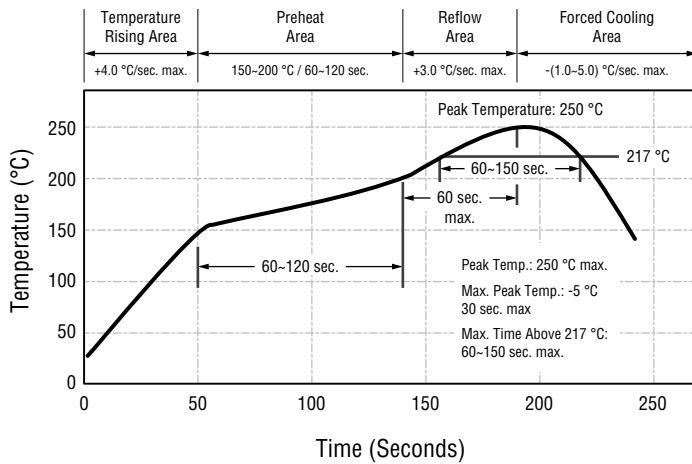
- Semi-shielded construction
- High operating temperature
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRN5030HA Series - Semi-shielded Power Inductors

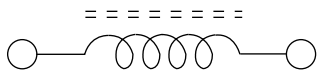
Electrical Specifications @ 25 °C

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

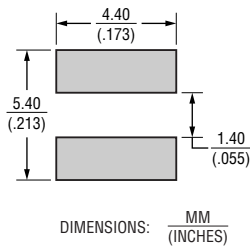


How to Order

SRN5030HA - 1R0Y

Model _____
Value Code (see table) _____

Recommended Layout



Additional Information

Click these links for more information:



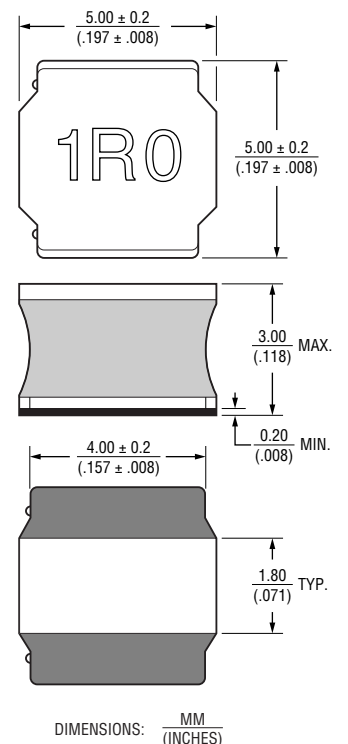
General Specifications

Operating Temperature -55 °C to +150 °C
(Temperature rise included)
Storage Temperature (Component) -55 °C to +150 °C
Temperature Rise 40 °C at rated 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



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

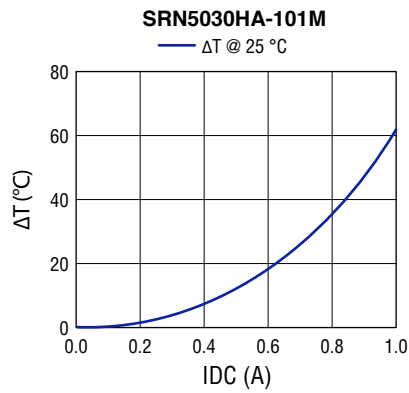
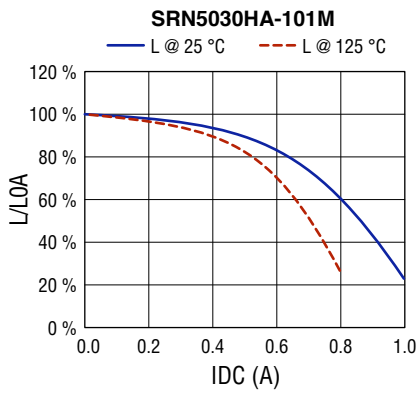
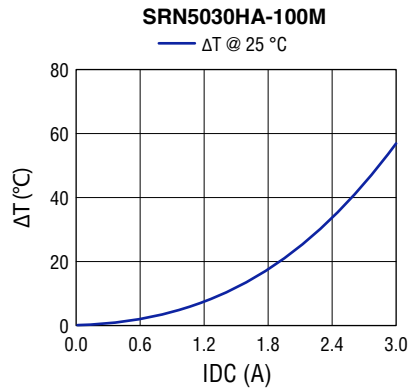
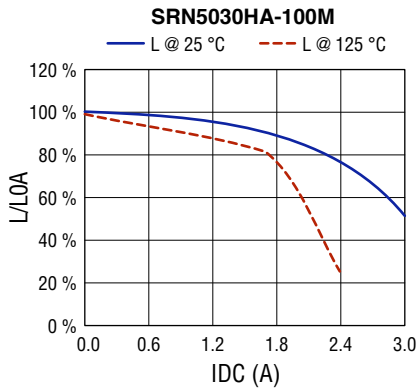
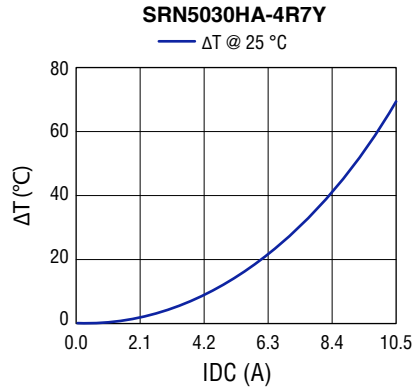
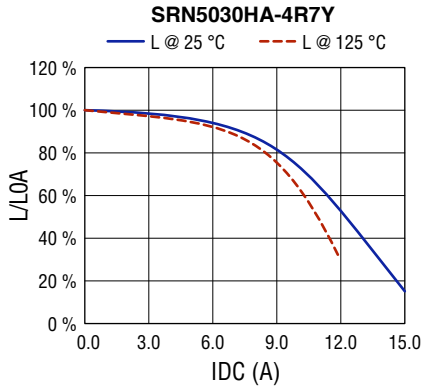
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** Bourns considers a product to be "halogen free" if
(a) the Bromine (Br) content is 900 ppm or less;
(b) the Chlorine (Cl) content is 900 ppm or less; and
(c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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SRN5030HA Series - Semi-shielded Power Inductors



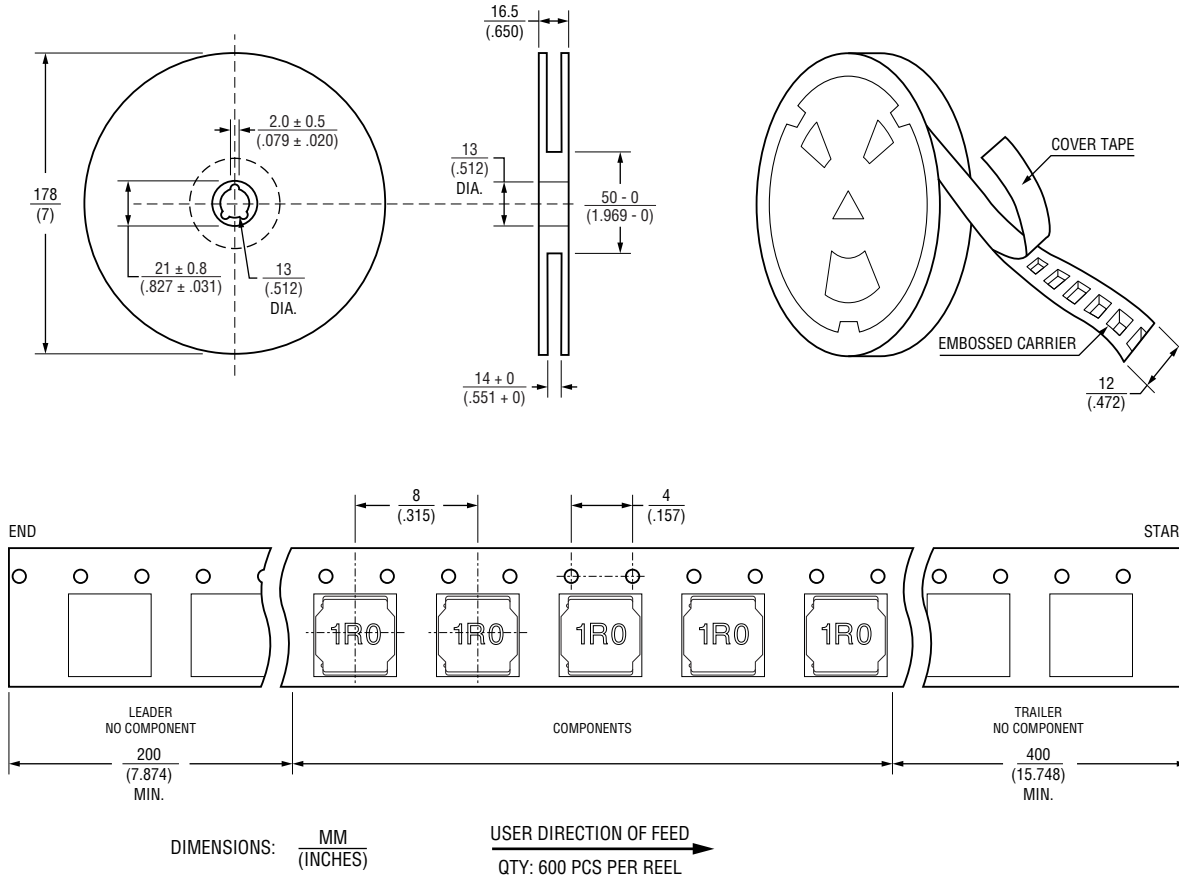
Inductance vs. IDC and Temperature Rise vs. IDC



SRN5030HA Series - Semi-shielded Power Inductors



Packaging Specifications



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

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