

SRN4030HA-3R3Y Datasheet

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DiGi Electronics Part Number	SRN4030HA-3R3Y-DG
Manufacturer	Bourns Inc.
Manufacturer Product Number	SRN4030HA-3R3Y
Description	IND,4X4X3MM,3.3UH30%,3.4A,150C,S
Detailed Description	3.3 μ H Semi-Shielded Drum Core, Wirewound Inductor 3.4 A 50mOhm Max Nonstandard



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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

SRN4030HA-3R3Y

Series:

SRN4030HA

Type:

Drum Core, Wirewound

Inductance:

3.3 μ H

Current Rating (Amps):

3.4 A

Shielding:

Semi-Shielded

Q @ Freq:

13 @ 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):

4A

DC Resistance (DCR):

50mOhm Max

Frequency - Self Resonant:

39MHz

Operating Temperature:

-55°C ~ 150°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.157" L x 0.157" W (4.00mm x 4.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



Features

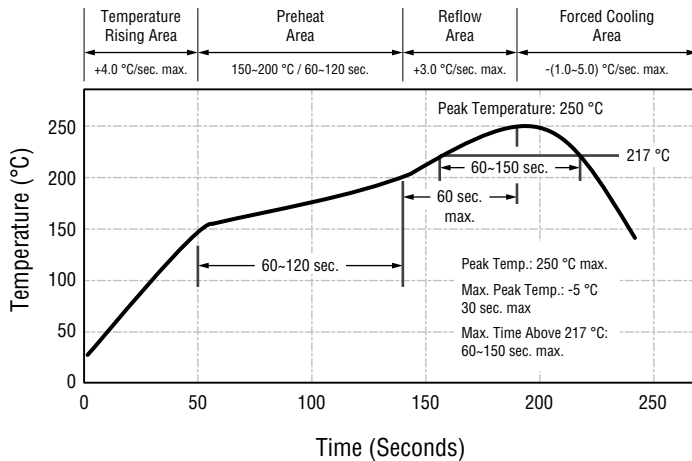
- Semi-shielded construction
- High operating temperature
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRN4030HA Series - Semi-shielded Power Inductors

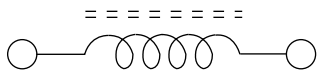
Electrical Specifications @ 25 °C

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. %						
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

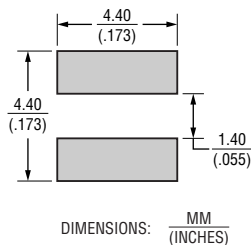


How to Order

SRN4030HA - 1R0Y

Model _____
Value Code (see table) _____

Recommended Layout



Additional Information

Click these links for more information:



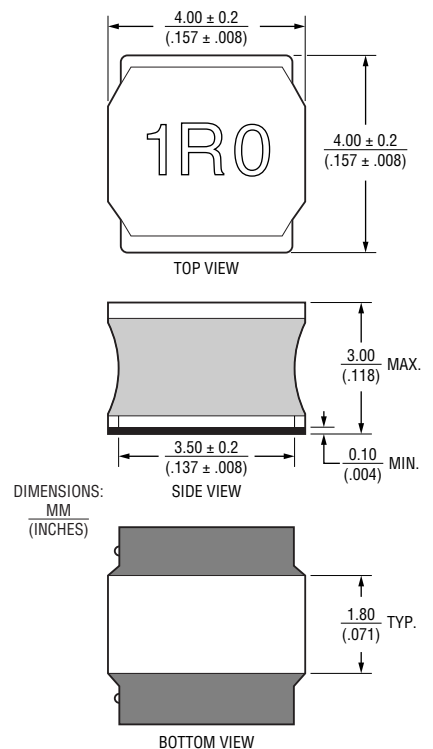
General Specifications

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

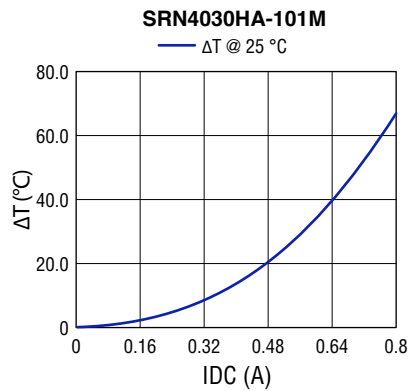
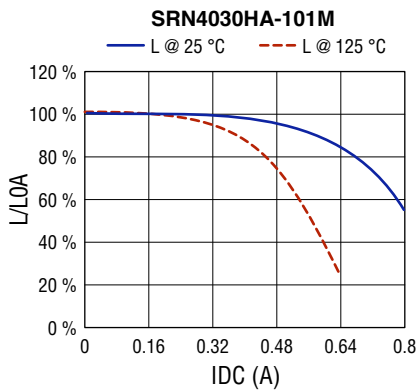
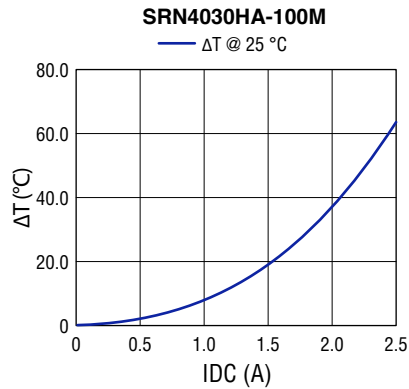
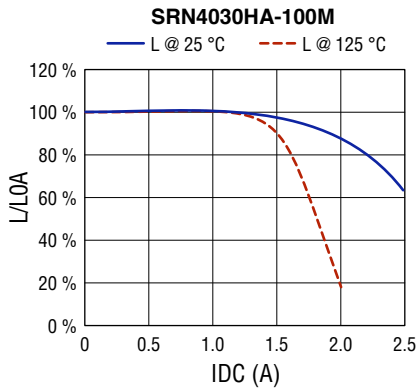
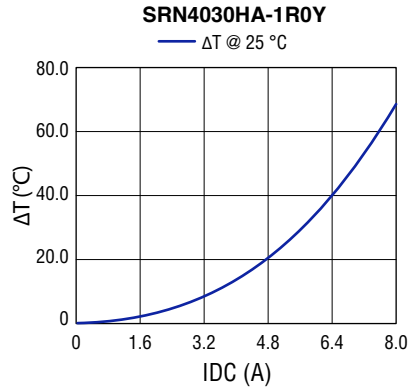
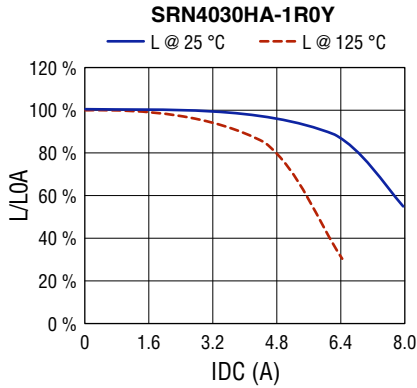
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** Bourns considers a product to be "halogen free" if
(a) the Bromine (Br) content is 900 ppm or less;
(b) the Chlorine (Cl) content is 900 ppm or less; and
(c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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SRN4030HA Series - Semi-shielded Power Inductors



Inductance vs. IDC and Temperature Rise vs. IDC



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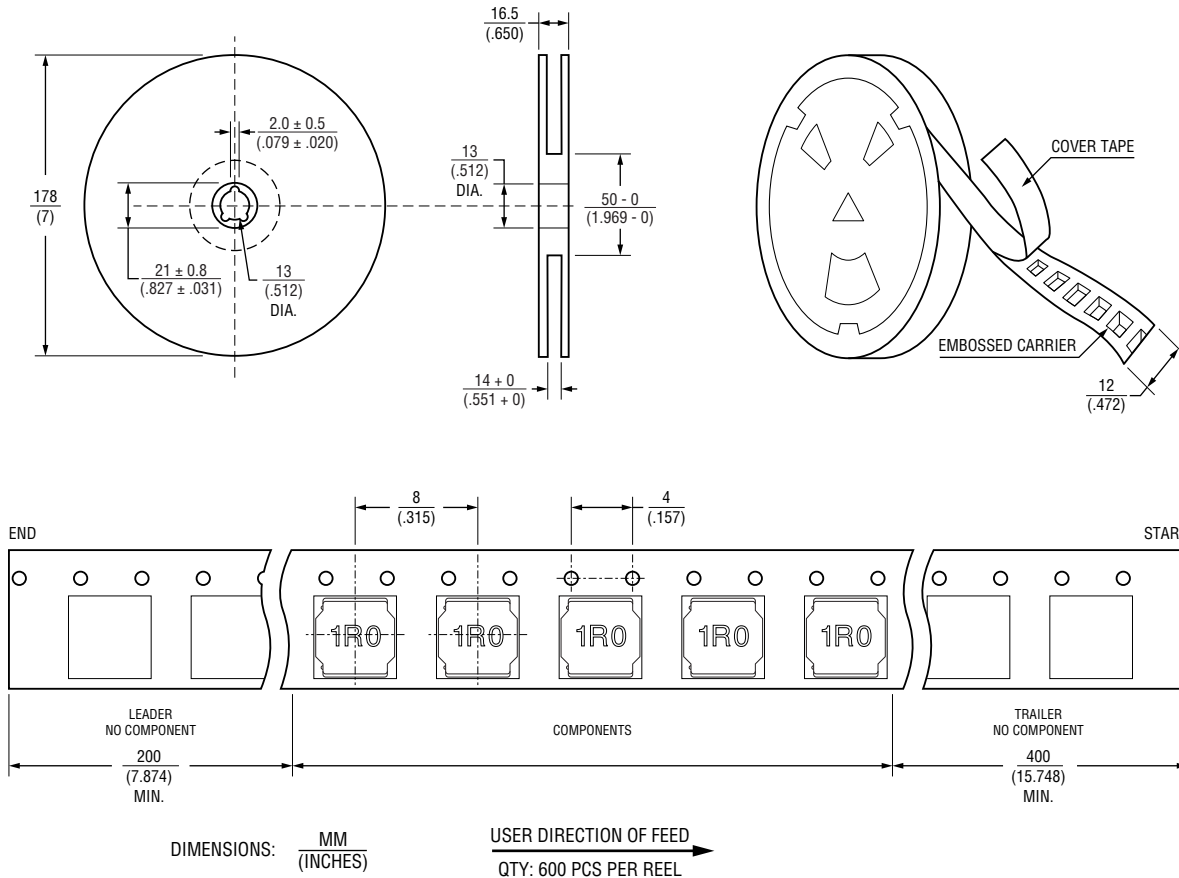
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SRN4030HA Series - Semi-shielded Power Inductors



Packaging Specifications



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