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Features

- Semi-shielded construction
- Miniature size
- Component height 1.5 mm
- Inductance range: 1 to 100 µH
- Rated current up to 2.35 A
- RoHS compliant* and halogen free**

Applications

- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

SRN3015 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 0.1 V / 1 MHz L (µH)	Inductance @ 0.1 V / 1 MHz Tol. %	Q (Ref.)	Test Freq. (MHz)	DCR (Ω) Max.	SRF (MHz) Typ.	Irms (A)	Isat (A)
SRN3015-1R0Y	1.0	± 30	16	7.96	0.048	145	2.35	2.35
SRN3015-1R5Y	1.5	± 30	16	7.96	0.066	130	2.10	2.00
SRN3015-2R2M	2.2	± 20	15	7.96	0.072	90	1.80	1.65
SRN3015-3R3M	3.3	± 20	14	7.96	0.112	75	1.60	1.40
SRN3015-4R7M	4.7	± 20	14	7.96	0.136	65	1.40	1.20
SRN3015-6R8M	6.8	± 20	14	7.96	0.211	50	1.10	1.05
SRN3015-100M	10	± 20	16	7.96	0.276	45	1.00	0.88
SRN3015-150M	15	± 20	24	2.52	0.422	33	0.80	0.68
SRN3015-180M	18	± 20	25	2.52	0.546	30	0.65	0.62
SRN3015-220M	22	± 20	26	2.52	0.622	28	0.60	0.58
SRN3015-330M	33	± 20	32	2.52	0.959	22	0.50	0.46
SRN3015-470M	47	± 20	39	2.52	1.406	18	0.40	0.38
SRN3015-101M	100	± 20	44	2.52	2.920	11	0.29	0.27

General Specifications

Operating Temperature ..... -40 °C to +125 °C (Temperature rise included)
Storage Temperature .... -40 °C to +85 °C
Resistance to Solder Heat ..... +260 °C for 10 sec.
Temperature Rise .....40 °C at rated Irms
Rated Current ..... Inductance drops 30 % at Isat
Moisture Sensitivity Level..... 1
ESD Classification (HBM)..... N/A

Materials

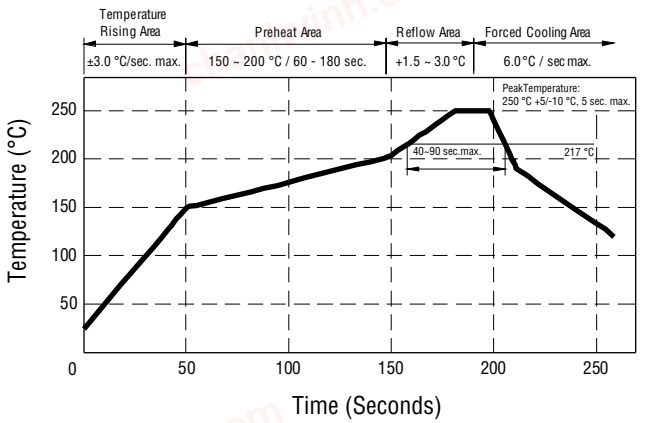
Core.....Ferrite
Wire .....Enameled copper
Terminal Finish .....Sn/Ag/Cu
Coating .....Magnetic epoxy resin
Packaging..... 2000 pcs. per 7-inch reel

How to Order

SRN3015 - 100M

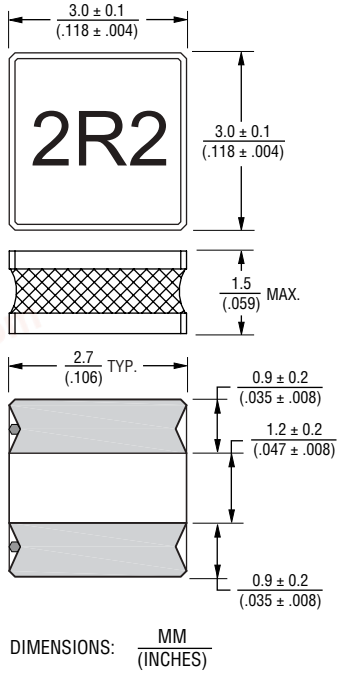
Model
Value Code (see table)

Soldering Profile



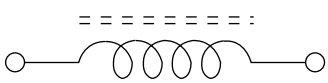
Peak Temperature: 255 ° max. Maximum Time Above 217 °C: 90 seconds

Product Dimensions

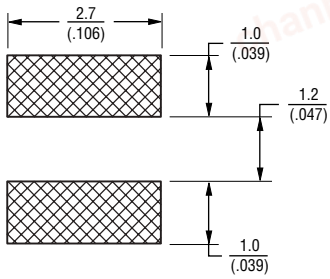


DIMENSIONS: MM / (INCHES)

Electrical Schematic



Recommended Layout



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

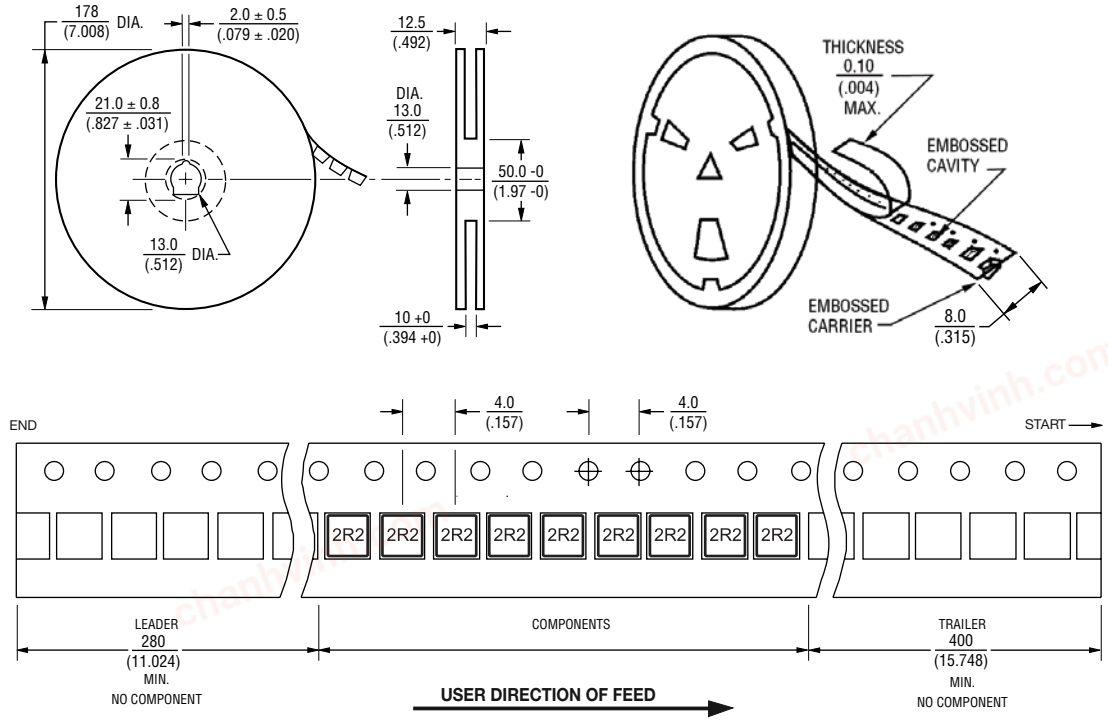
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (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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Packaging Specifications



QTY: 2000 PCS. PER REEL

DIMENSIONS: MM / (INCHES)

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