

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

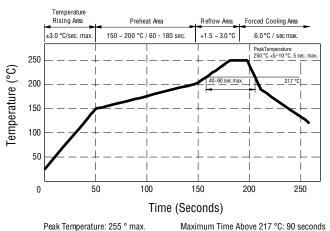
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

SRN3015 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

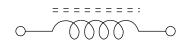
	Inductance @ 0.1 V / 1 MHz		Q	Test Freg.	DCR (Ω)	SRF (MHz)	Irms	lsat
Bourns Part No.	L (μΗ)	Tol. %	(Ref.)	(MHz)	Max.	Typ.	(A)	(A)
SRN3015-1R0Y	1.0	± 30	16	7.96	0.048	145	2.35	2.35
SRN3015-1R5Y	1.5	± 30	16	7.96	0.066	130	2.10	2.00
SRN3015-2R2M	2.2	± 20	15	7.96	0.072	90	1.80	1.65
SRN3015-3R3M	3.3	± 20	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

Soldering Profile



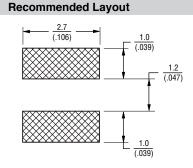
Peak Temperature: 255 ° max.

Electrical Schematic



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

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



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 Rise40 °C at rated Irms Rated Current

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

Materials

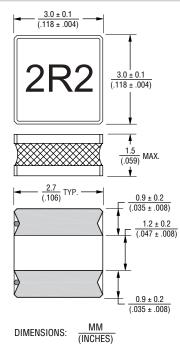
Core	Ferrite
Wire	Enameled copper
Terminal Finish	Sn/Ag/Cu
Coating	Magnetic epoxy resin
Packaging 20	000 pcs. per 7-inch reel

How to Order

SRN3015 - 100M

Model Value Code (see table)

Product Dimensions



** 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 (CI) content is 1500 ppm or less.

Specifications are subject to change without notice.

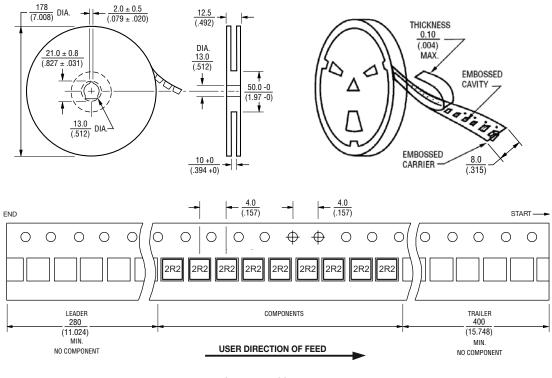
Users should verify actual device performance in their specific applications.

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SRN3015 Series - Semi-shielded Power Inductors

BOURNS

Packaging Specifications



QTY: 2000 PCS. PER REEL

DIMENSIONS: $\frac{MM}{(INCHES)}$

BOURNS

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116 EMEA: Tel: +36 88 885 877 • Fax: +36 88 520 211 The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700 www.bourns.com

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