

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

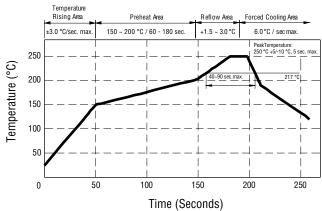
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

SRN3015 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

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

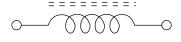
Soldering Profile



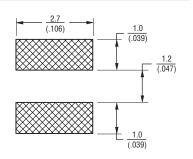
Peak Temperature: 255 ° max.

Maximum Time Above 217 °C: 90 seconds

Electrical Schematic



Recommended Layout



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

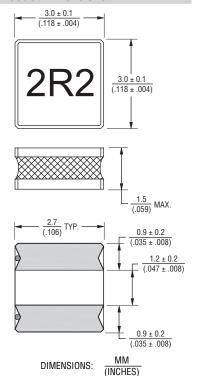
...... Inductance drops 30 % at Isat

Materials

Core	Ferrite
Wire	Enameled copper
Terminal Finish.	Sn
Coating	Magnetic epoxy resin
Packaging2	2000 pcs. per 7-inch reel

How to Order

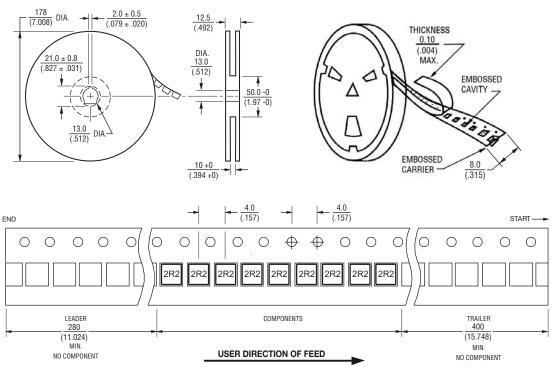
Product Dimensions



 $^{^{\}star}$ RoHS Directive 2002/95/EC Jan 27, 2003 including Annex.

^{**} Bourns follows the prevailing definition of "halogen free" in the industry. 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.

Packaging Specifications



QTY: 2000 PCS. PER REEL

BOURNS®

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