

Features

- Semi-shielded construction
- High rated current
- Component height 4.5 mm
- Inductance range: 1 to 100 µH
- Rated current up to 4.2 A
- RoHS compliant* and halogen free**

Applications

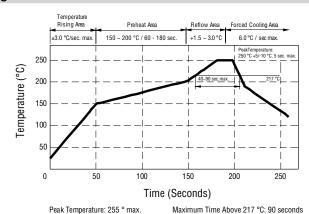
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

SRN6045 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

	Inductance @ 100 KHz/1 V		DCR (Ω)	Irms	Isat
Bourns Part No.	L (μ H)	Tol. %	Max.	(A)	(A)
SRN6045-1R0Y	1.0	30	0.0139	4.2	8.5
SRN6045-1R3Y	1.3	30	0.017	4.0	8.0
SRN6045-1R8Y	1.8	30	0.0198	3.7	7.0
SRN6045-2R2Y	2.2	30	0.0251	3.5	6.0
SRN6045-3R3Y	3.3	30	0.0302	3.2	5.0
SRN6045-4R7Y	4.7	30	0.0376	3.0	4.0
SRN6045-6R8Y	6.8	30	0.0473	2.8	3.8
SRN6045-8R2Y	8.2	30	0.055	2.7	3.3
SRN6045-100M	10	20	0.0586	2.5	3.0
SRN6045-150M	15	20	0.0958	1.9	2.3
SRN6045-220M	22	20	0.142	1.5	1.9
SRN6045-330M	33	20	0.188	1.4	1.5
SRN6045-470M	47	20	0.257	1.1	1.3
SRN6045-680M	68	20	0.351	0.9	1.0
SRN6045-101M	100	20	0.494	0.7	0.8

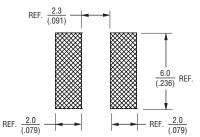
Soldering Profile



Electrical Schematic



Recommended Layout



General Specifications

Operating Temperature

.....-40 °C to +125 °C (Temperature rise included) Storage Temperature .. -40 °C to +125 °C Resistance to Solder Heat

.....+250 °C for 10 sec. Temperature Rise40 °C at rated Irms Rated Current

..... Inductance drops 30 % at Isat

Materials

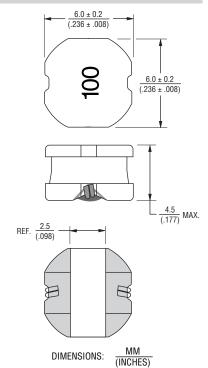
CoreFerrite
WireEnameled copper
Terminal FinishSn
CoatingMagnetic epoxy resin
Packaging1000 pcs. per 13-inch reel

How to Order

SRN6045 - 100M

Model — Value Code (see table) —

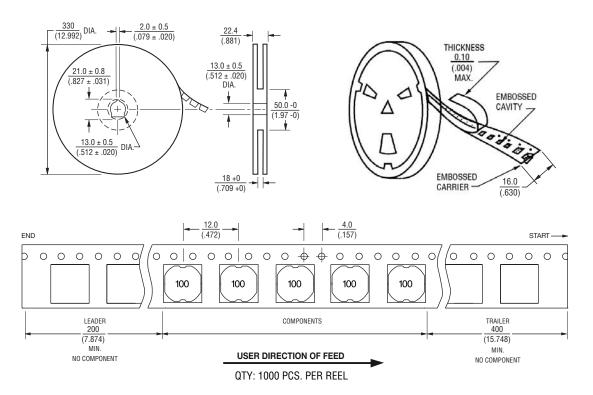
Product Dimensions



 $^{^{\}star} \quad \text{RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.}$

^{**} 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



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

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<u>SRN6045-100M</u> <u>SRN6045-101M</u> <u>SRN6045-150M</u> <u>SRN6045-1R0Y</u> <u>SRN6045-1R3Y</u> <u>SRN6045-1R8Y</u> <u>SRN6045-1R8Y</u> <u>SRN6045-880M</u> <u>SRN6045-8R2Y</u> <u>SRN6045-8R2Y</u> <u>SRN6045-8R2Y</u> <u>SRN6045-188Y</u> <u>SRN6045-470M</u> <u>SRN6045-4R7Y</u> <u>SRN6045-680M</u> <u>SRN6045-6R8Y</u> <u>SRN6045-8R2Y</u>