

Features

- Semi-shielded construction
- High rated current
- Component height: 4 mm
- Inductance range: 0.5 to 100 µH
- Rated current up to 10 A
- RoHS compliant* and halogen free**

Applications

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

SRN8040 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)
SRN8040-R50Y	0.5	30	0.007	10	12
SRN8040-1R0Y	1.0	30	0.01	7.8	11
SRN8040-1R5Y	1.5	30	0.011	7	8.2
SRN8040-2R2Y	2.2	30	0.013	6.3	7.4
SRN8040-3R3Y	3.3	30	0.021	5.6	5.5
SRN8040-3R6Y	3.6	30	0.022	4.9	5.3
SRN8040-4R7Y	4.7	30	0.024	4.1	4.7
SRN8040-6R8Y	6.8	30	0.033	3.9	4.2
SRN8040-8R2Y	8.2	30	0.045	3.7	4
SRN8040-100M	10	20	0.05	3.1	3.4
SRN8040-150M	15	20	0.07	2.4	2.7
SRN8040-220M	22	20	0.1	2.2	2.2
SRN8040-330M	33	20	0.145	1.7	1.9
SRN8040-470M	47	20	0.19	1.4	1.5
SRN8040-680M	68	20	0.275	1.1	1.2
SRN8040-101M	100	20	0.4	1	1

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

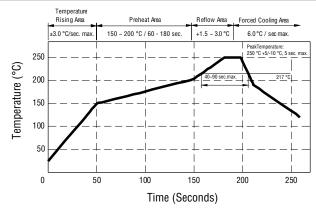
Materials	
Core	Ferrite
Wire	Enameled copper
Terminal Finish.	Sr
Coating	Magnetic epoxy resir
Packaging 12	200 pcs. per 13-inch ree

How to Order

SRN8040 - 100M

Model — Value Code (see table) —

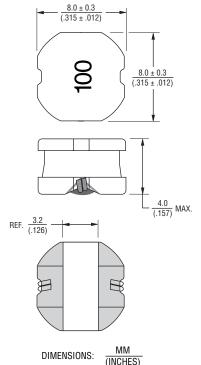
Soldering Profile



Peak Temperature: 255 ° max.

Maximum Time Above 217 °C: 90 seconds

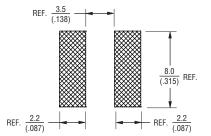
Product Dimensions



Electrical Schematic



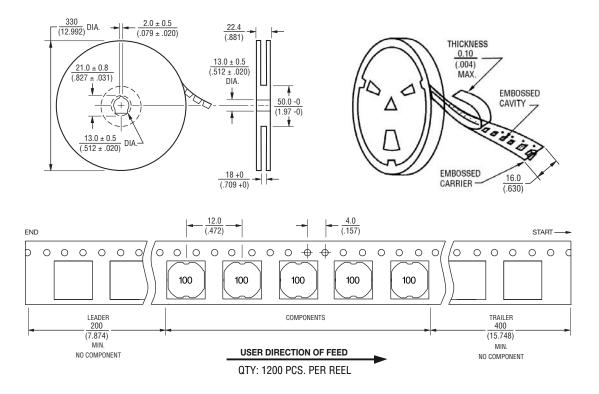
Recommended Layout



^{*} 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



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

BOURNS®

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