

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

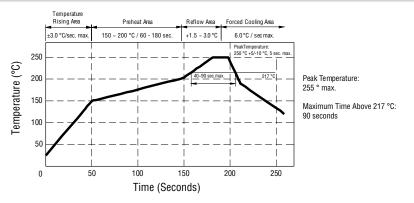
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

SRN8040 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

	Inductance @ 100 KHz / 1 V		Q	Test Freg.	SRF (MHz)	DCR	Irms	Isat
Bourns Part No.	L (μH)	Tol. %	(Ref.)	(MHz)	Typ.	(Ω) Max.	(A)	(A)
SRN8040-R50Y	0.5	30	13	7.96	125	0.007	10	12
SRN8040-1R0Y	1.0	30	13	7.96	75	0.01	7.8	11
SRN8040-1R5Y	1.5	30	13	7.96	55	0.011	7	8.2
SRN8040-2R2Y	2.2	30	13	7.96	40	0.013	6.3	7.4
SRN8040-3R3Y	3.3	30	13	7.96	34	0.021	5.6	5.5
SRN8040-3R6Y	3.6	30	13	7.96	32	0.022	4.9	5.3
SRN8040-4R7Y	4.7	30	13	7.96	28	0.024	4.1	4.7
SRN8040-6R8Y	6.8	30	13	7.96	23	0.033	3.9	4.2
SRN8040-8R2Y	8.2	30	13	7.96	20	0.045	3.7	4
SRN8040-100M	10	20	20	2.52	18	0.05	3.1	3.4
SRN8040-150M	15	20	15	2.52	14	0.07	2.4	2.7
SRN8040-220M	22	20	20	2.52	12	0.1	2.2	2.2
SRN8040-330M	33	20	20	2.52	10	0.145	1.7	1.9
SRN8040-470M	47	20	15	2.52	9	0.19	1.4	1.5
SRN8040-680M	68	20	20	2.52	7	0.275	1.1	1.2
SRN8040-101M	100	20	10	0.796	6	0.4	1	1

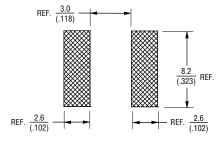
Soldering Profile



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

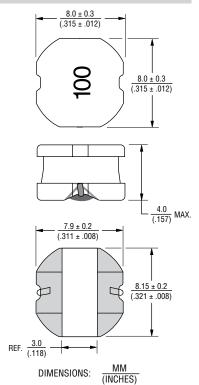
Core	Ferrite
Wire	Enameled copper
Terminal Finish.	Sn/Ag/Cu
Coating	Magnetic epoxy resin
Packaging 10	000 pcs. per 13-inch reel

How to Order

Model -

SRN8040 - 100M Value Code (see table)

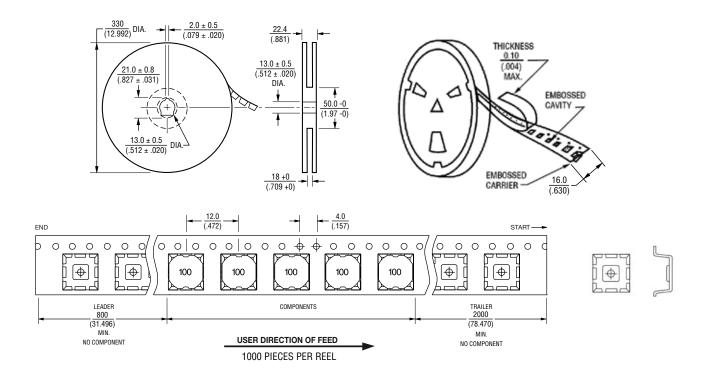
Product Dimensions



^{*}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. Specifications are subject to change without notice. Specifications are subject to change without notice.

Packaging Specifications



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