



Features

- Semi-shielded construction
- Inductance range: 1.5 to 47 μ H
- Rated current up to 3.6 A
- RoHS compliant* and halogen free**

Applications

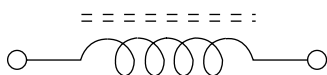
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cellphones
- Televisions, LCD displays

SRN5040 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (Ω) Max.	Irms (A)	Isat (A)
	L (μ H)	Tol. %						
SRN5040-1R5Y	1.5	30	15	7.96	66	0.018	3.6	6.0
SRN5040-2R2Y	2.2	30	20	7.96	40	0.021	3.5	4.6
SRN5040-3R3M	3.3	20	20	7.96	30	0.027	3.3	3.8
SRN5040-4R7M	4.7	20	15	7.96	27	0.035	3.1	3.3
SRN5040-6R8M	6.8	20	15	7.96	21	0.059	2.3	2.6
SRN5040-8R2M	8.2	20	15	7.96	18	0.065	2.2	2.4
SRN5040-100M	10	20	17	7.96	17	0.068	2.1	2.3
SRN5040-150M	15	20	17	2.52	15	0.096	1.8	2.0
SRN5040-220M	22	20	17	2.52	11	0.152	1.4	1.6
SRN5040-270M	27	20	17	2.52	9	0.198	1.3	1.4
SRN5040-330M	33	20	17	2.52	8	0.216	1.2	1.3
SRN5040-470M	47	20	15	2.52	7	0.324	0.9	1.1

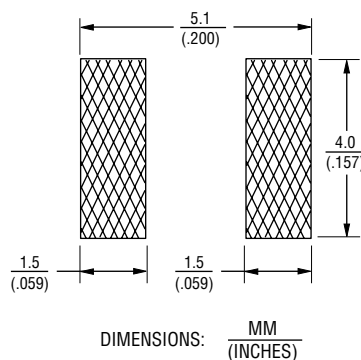
Electrical Schematic



How to Order

Model **SRN5040 - 4R7M**
Value Code (see table)

Recommended Layout



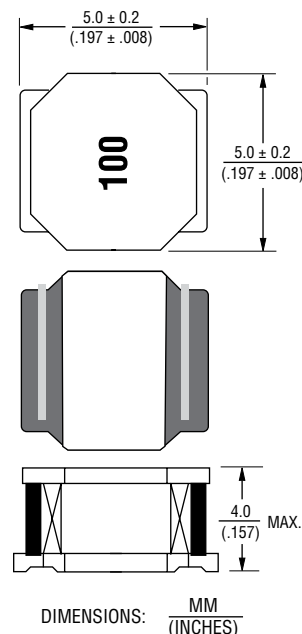
General Specifications

Operating Temperature -40 °C to +125 °C
(Temperature rise included)
Storage Temperature (Component) -40 °C to +125 °C
Resistance to Solder Heat +260 °C for 10 sec.
Temperature Rise 40 °C at rated Irms
Rated Current Inductance drops 30 % at Isat
Moisture Sensitivity Level 1
ESD Classification (HBM) 3B

Materials

Core Ferrite
Wire Enameled copper
Terminal Finish Sn
Coating Magnetic epoxy resin
Packaging 1000 pcs. per 13-inch reel

Product Dimensions



*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

**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.

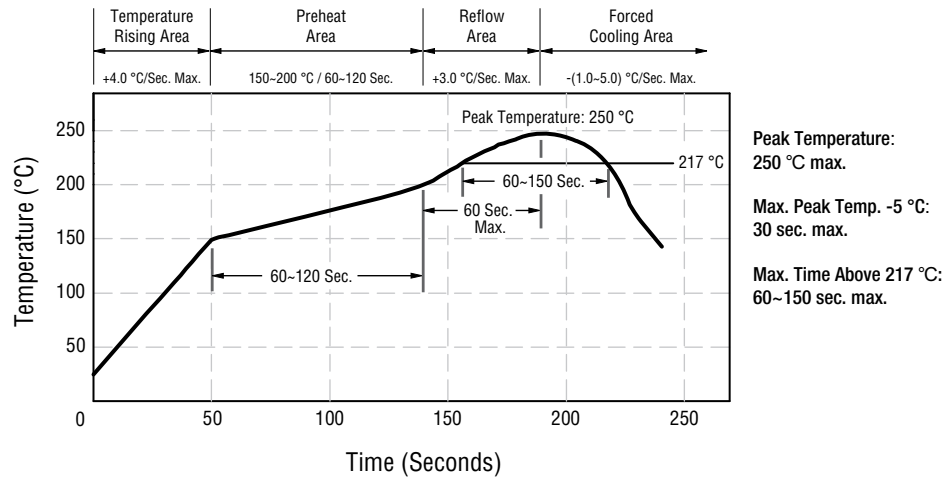
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

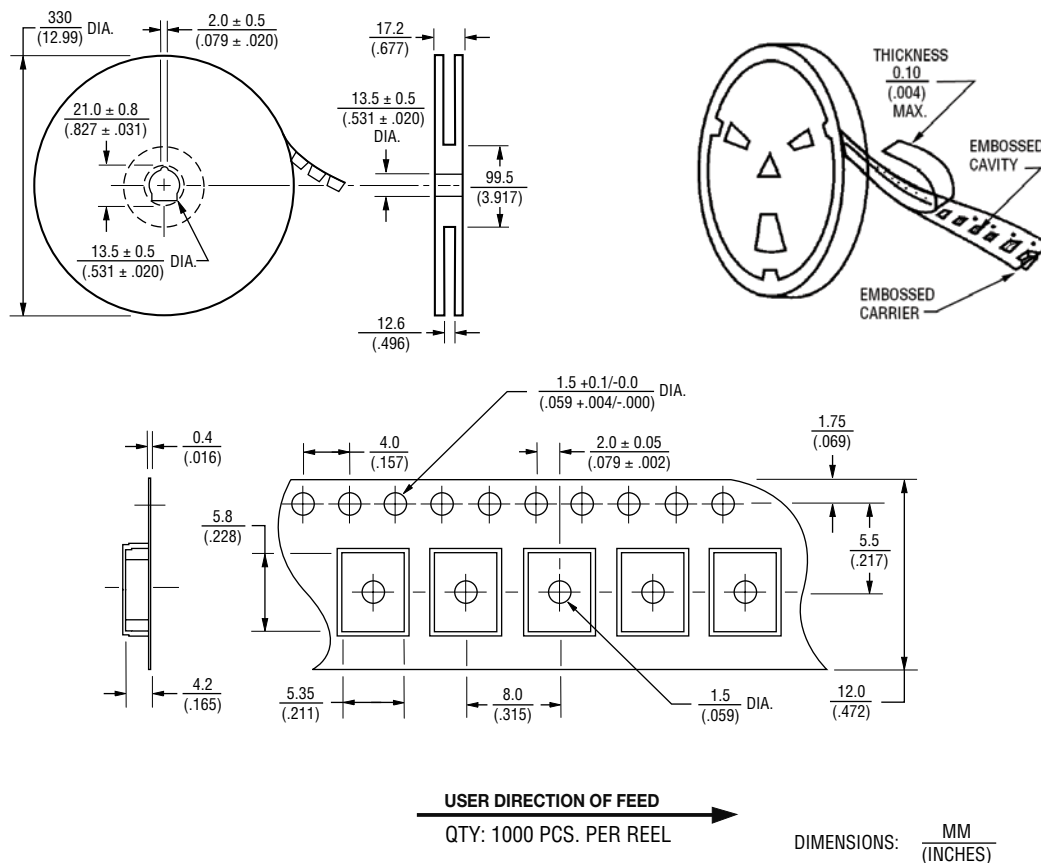
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BOURNS®

Soldering Profile



Packaging Specifications



REV. 06/17

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