



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- Semi-shielded construction
- Inductance range: 0.5 to 330 μ H
- Rated current up to 12 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

Applications

- Automotive systems:
 - Driver assistant
 - Infotainment
 - Lighting
- DC/DC converters
- Power supplies
- Digital video cameras
- HDDs
- Smartphones
- Televisions, LCD displays

SRN8040TA Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 1 MHz / 1 V		Q (Min.) @ 1 MHz	SRF (MHz) Typ.	DCR (m Ω) \pm 20 %	I _{rms} (A) Max.	I _{sat} (A) Max.
	L (μ H)	Tol. %					
SRN8040TA-R50Y	0.5	\pm 30	20	165	5.5	12.00	17.00
SRN8040TA-1R0Y	1.0	\pm 30	15	85	8.2	8.50	13.80
SRN8040TA-1R4Y	1.4	\pm 30	15	78	10	8.20	11.80
SRN8040TA-1R5Y	1.5	\pm 30	15	66	10	8.00	11.50
SRN8040TA-2R2Y	2.2	\pm 30	15	57	11.5	7.40	9.80
SRN8040TA-3R3Y	3.3	\pm 30	15	48	15	6.60	8.00
SRN8040TA-4R7M	4.7	\pm 20	15	38	19.5	5.80	6.70
SRN8040TA-5R6M	5.6	\pm 20	15	33	22	5.40	6.20
SRN8040TA-6R8M	6.8	\pm 20	15	29	25	5.10	5.60
SRN8040TA-100M	10	\pm 20	15	25	33	4.60	5.00
SRN8040TA-150M	15	\pm 20	12	20	50	3.60	4.00
SRN8040TA-220M	22	\pm 20	12	18	73	2.90	3.10
SRN8040TA-330M	33	\pm 20	12	15	100	2.30	2.60
SRN8040TA-470M	47	\pm 20	12	12	135	2.00	2.20
SRN8040TA-560M	56	\pm 20	12	10.5	160	1.75	1.90
SRN8040TA-680M	68	\pm 20	12	9.5	205	1.65	1.75
SRN8040TA-820M	82	\pm 20	12	8.5	230	1.40	1.60
SRN8040TA-101M	100	\pm 20	10	8	300	1.20	1.45
SRN8040TA-121M	120	\pm 20	10	7.5	350	1.10	1.30
SRN8040TA-151M	150	\pm 20	10	7	410	0.98	1.20
SRN8040TA-181M	180	\pm 20	10	6.5	490	0.91	1.04
SRN8040TA-221M	220	\pm 20	10	5.5	610	0.85	0.99
SRN8040TA-331M	330	\pm 20	10	5	850	0.70	0.75

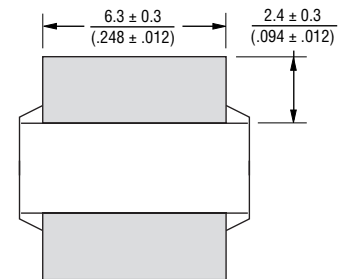
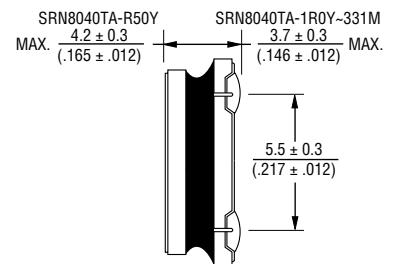
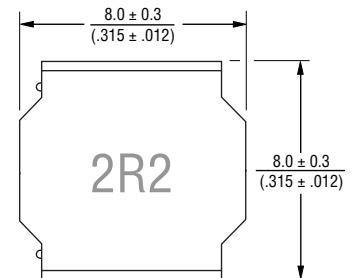
General Specifications

Operating Temp. -55 °C to +125 °C
 (Temperature rise included)
 Storage Temperature .. -55 °C to +125 °C
 Temperature Rise 40 °C at rated I_{rms}
 Rated Current
 Inductance drops 30 % at I_{sat}
 Failure In Time (FIT) 24.7/10⁹ hours
 Mean Time Between Failures (MTBF)
 40.4 x 10⁶ hours

Materials

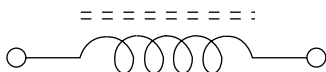
Core Ferrite
 Wire Enameled copper
 Terminal Finish Sn
 Coating Magnetic epoxy resin
 Packaging 1000 pcs. per 13-inch reel

Product Dimensions

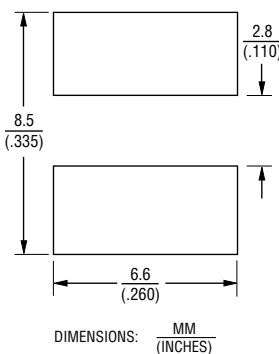


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Electrical Schematic



Recommended Layout



How to Order

SRN8040TA - 100M

Model _____
 Value Code (see table) _____

*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.

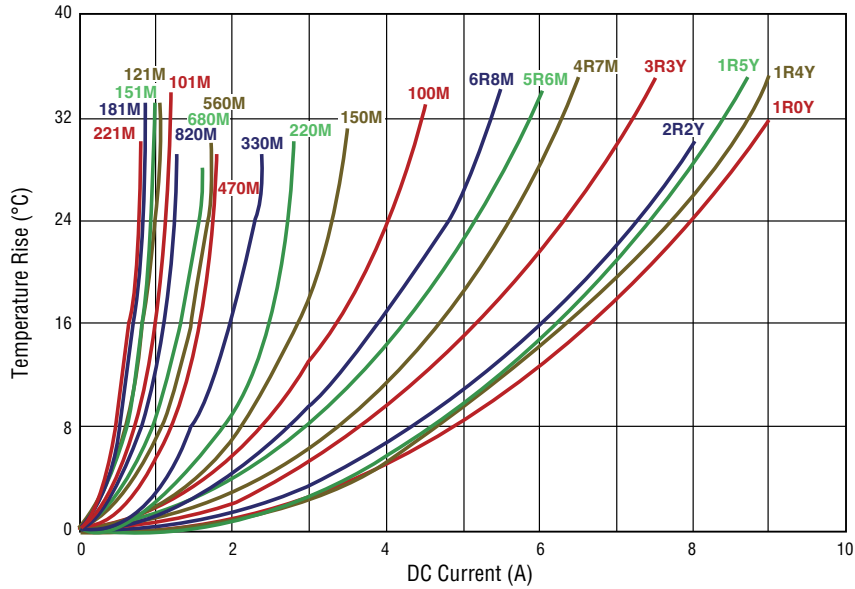
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

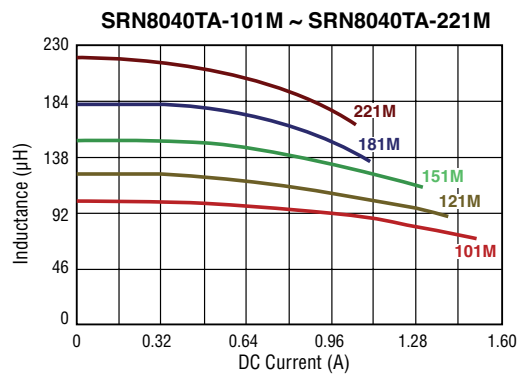
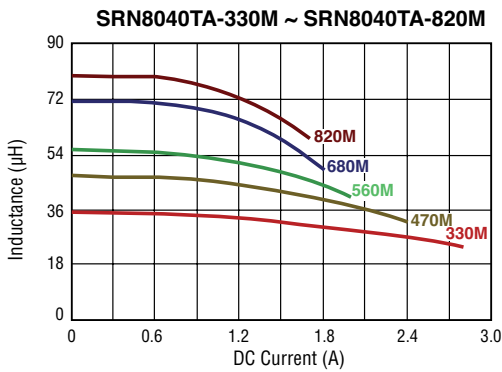
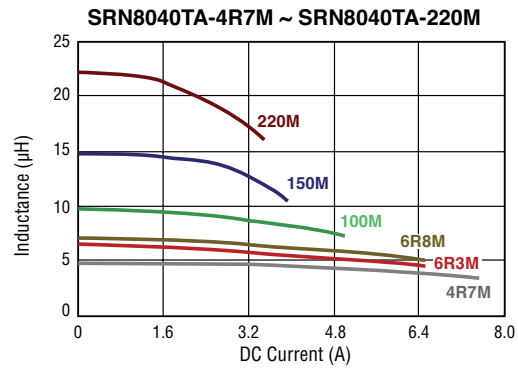
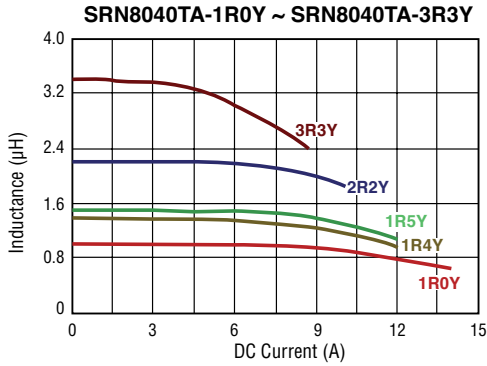
SRN8040TA Series - Semi-shielded Power Inductors



Temperature Rise vs. Current



Inductance vs. Current

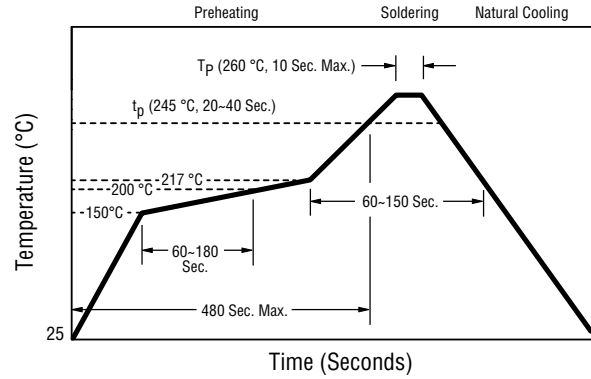


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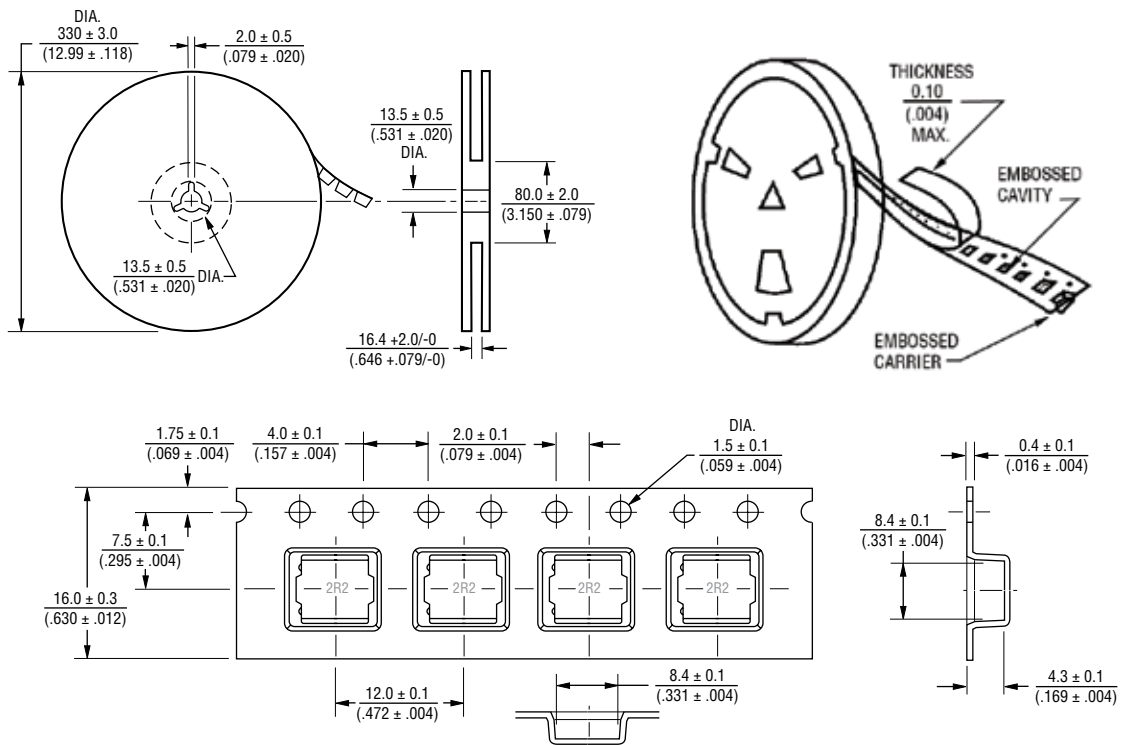
SRN8040TA Series - Semi-shielded Power Inductors



Soldering Profile



Packaging Specifications



USER DIRECTION OF FEED →
QTY: 1000 PCS. PER REEL

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

07/16

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