

### Features

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

# SRN8040TA Series - Semi-shielded Power Inductors

### Electrical Specifications @ 25 °C

	Inductance @ 1 MHz / 1 V		Q (Min.)	SRF (MHz)	DCR (mΩ)	Irms (A)	lsat (A)
Bourns Part No.	L (μH)	Tol. %	@ 1 MHz	Тур.	±20 %	Typ.	Typ.
SRN8040TA-R50Y	0.5	± 30	20	165	5.5	12.00	17.00
SRN8040TA-1R0Y	1.0	± 30	15	85	8.2	8.50	13.80
SRN8040TA-1R4Y	1.4	± 30	15	78	10	8.20	11.80
SRN8040TA-1R5Y	1.5	± 30	15	66	10	8.00	11.50
SRN8040TA-2R0Y	2.0	± 30	15	61	11	7.50	10.20
SRN8040TA-2R2Y	2.2	± 30	15	57	11.5	7.40	9.80
SRN8040TA-3R3Y	3.3	± 30	15	48	15	6.60	8.00
SRN8040TA-4R7M	4.7	± 20	15	38	19.5	5.80	6.70
SRN8040TA-5R6M	5.6	± 20	15	33	22	5.40	6.20
SRN8040TA-6R8M	6.8	± 20	15	29	25	5.10	5.60
SRN8040TA-100M	10	± 20	15	25	33	4.60	5.00
SRN8040TA-150M	15	± 20	12	20	50	3.60	4.00
SRN8040TA-220M	22	± 20	12	18	73	2.90	3.10
SRN8040TA-330M	33	± 20	12	15	100	2.30	2.60
SRN8040TA-470M	47	± 20	12	12	135	2.00	2.20
SRN8040TA-560M	56	± 20	12	10.5	160	1.75	1.90
SRN8040TA-680M	68	± 20	12	9.5	205	1.65	1.75
SRN8040TA-820M	82	± 20	12	8.5	230	1.40	1.60
SRN8040TA-101M	100	± 20	10	8	300	1.20	1.45
SRN8040TA-121M	120	± 20	10	7.5	350	1.10	1.30
SRN8040TA-151M	150	± 20	10	7	410	0.98	1.20
SRN8040TA-181M	180	± 20	10	6.5	490	0.91	1.04
SRN8040TA-221M	220	± 20	10	5.5	610	0.85	0.99
SRN8040TA-331M	330	± 20	10	5	850	0.70	0.75

#### **Electrical Schematic**

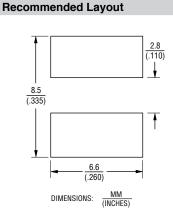
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### How to Order

SRN8040TA - 100M

Model -

Value Code (see table)



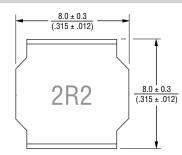
### **General Specifications**

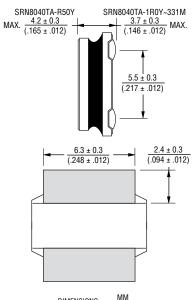
Operating Temp	55 °C to +	125 °C
	emperature rise inc	
Storage Temper	ature55 °C to +	125 °C
	se40 °C at rate	d Irms
Rated Current		
	ctance drops 30 %	
	(FIT)24.7/10 <sup>s</sup>	
	veen Failures (MTI	
	40.4 x 10 <sup>6</sup>	<sup>3</sup> hours
	ivity Level	
ESD Classificat	ion (HBM)	N/A

### Materials

Wire	Ferrite Enameled copper Sn
Coating	Magnetic epoxy resin 00 pcs. per 13-inch reel

### **Product Dimensions**





DIMENSIONS: (INCHES)



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

\*\*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.

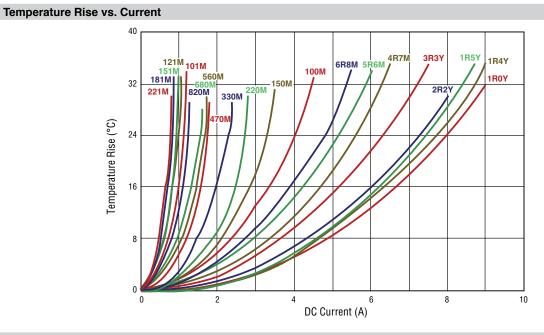
Users should verify actual device performance in their specific applications.

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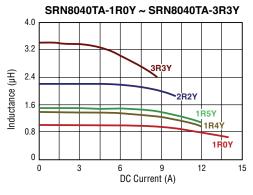
this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

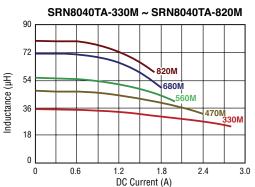
# **SRN8040TA Series - Semi-shielded Power Inductors**

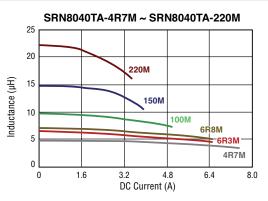
### BOURNS

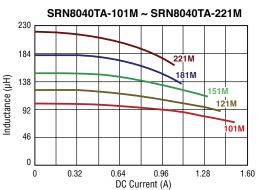


### Inductance vs. Current







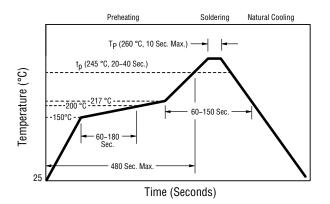


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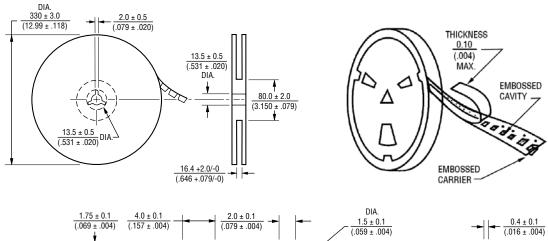
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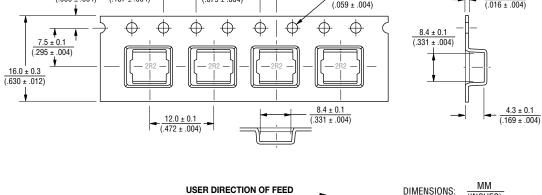
BOURNS

### **Soldering Profile**



### **Packaging Specifications**





QTY: 1000 PCS. PER REEL

MM DIMENSIONS: (INCHES)

#### REV. 06/19

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