

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

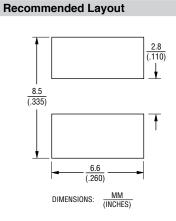
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How to Order

SRN8040TA - 100M

Model -

Value Code (see table)



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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General Specifications

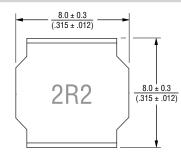
Operating Temp55 °C to +125	
(Temperature rise includ	ed)
Storage Temperature55 °C to +125	°C
Temperature Rise40 °C at rated Ir	ms
Rated Current	
Inductance drops 30 % at I	sat
Failure In Time (FIT) 24.7/10 ⁹ ho	urs
Mean Time Between Failures (MTBF)	
	urs
Moisture Sensitivity Level	1
ESD Classification (HBM)I	

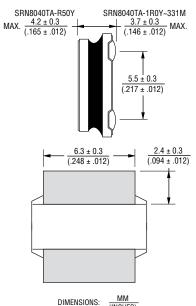
Materials

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	Ferrite
Wire	Enameled copper
Terminal Finish	Sn
	Magnetic epoxy resin
Packaging 100	0 pcs. per 13-inch reel

Product Dimensions

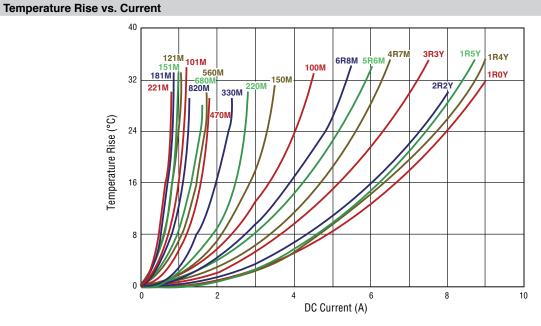




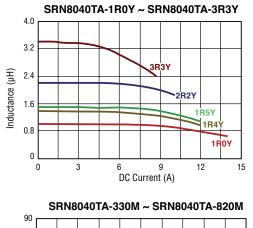


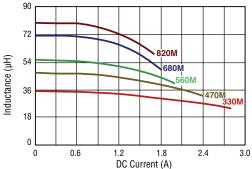
SRN8040TA Series - Semi-shielded Power Inductors

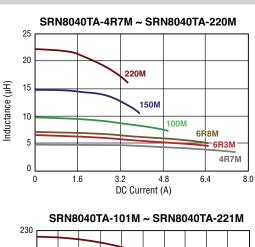
BOURNS

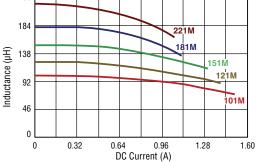


Inductance vs. Current







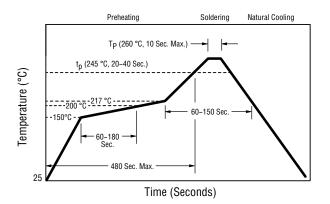


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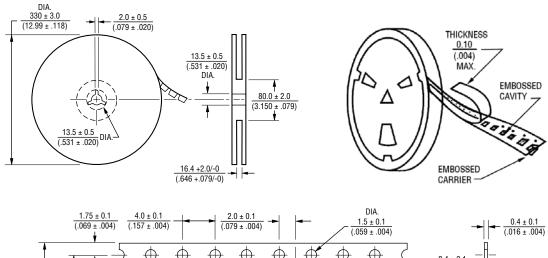
SRN8040TA Series - Semi-shielded Power Inductors

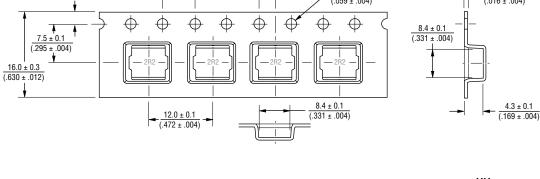
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Soldering Profile



Packaging Specifications





USER DIRECTION OF FEED QTY: 1000 PCS. PER REEL

MM DIMENSIONS: (INCHES)

REV. 06/19

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