



Features

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

Additional Information

Click these links for more information:

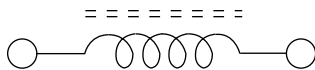


SRN8040TA Series - Semi-shielded Power Inductors

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) Typ.	Isat (A) Typ.
	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-1R2Y	1.2	\pm 30	15	80	8.2	8.30	12.80
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-2R0Y	2.0	\pm 30	15	61	11	7.50	10.20
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-3R6Y	3.6	\pm 30	15	42	15	6.40	7.60
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-8R2M	8.2	\pm 20	15	27	30	4.80	5.30
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
SRN8040TA-471M	470	\pm 20	10	3.4	1300	0.63	0.60

Electrical Schematic

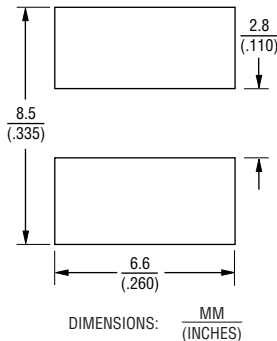


How to Order

SRN8040TA - 100M

Model _____
Value Code (see table) _____

Recommended Layout



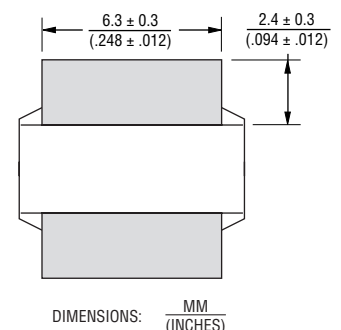
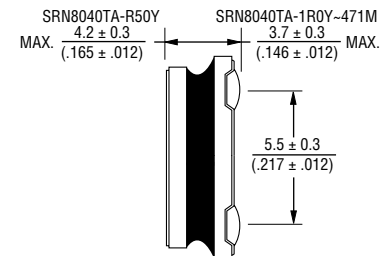
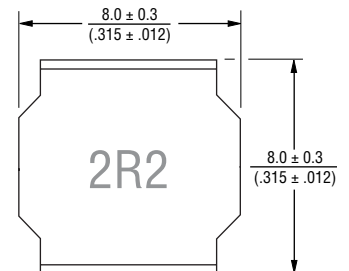
General Specifications

Operating Temp. -55 °C to +125 °C
(Temperature rise included)
Storage Temperature... -55 °C to +125 °C
Temperature Rise40 °C at rated I_{rms}
Rated Current
..... Inductance drops 30 % at Isat
Failure In Time (FIT)24.7/10⁹ hours
Mean Time Between Failures (MTBF)
.....40.4 x 10⁶ hours
Moisture Sensitivity Level..... 1
ESD Classification (HBM)..... N/A

Materials

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

Product Dimensions



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See www.P65Warnings.ca.gov

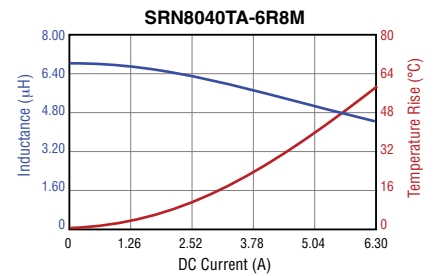
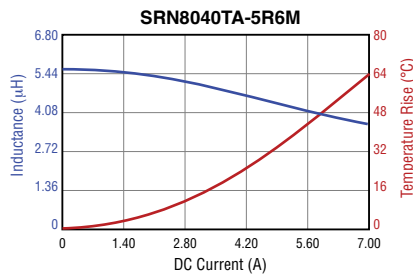
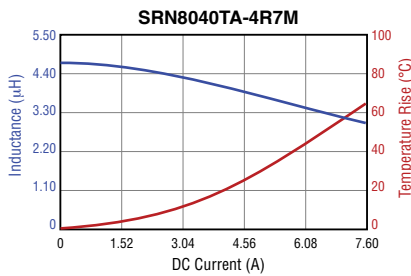
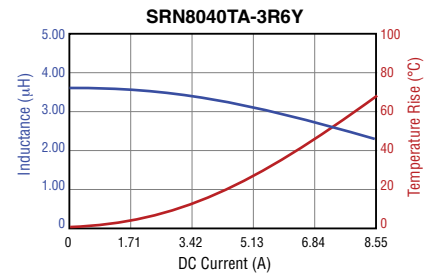
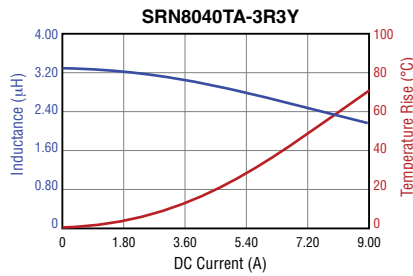
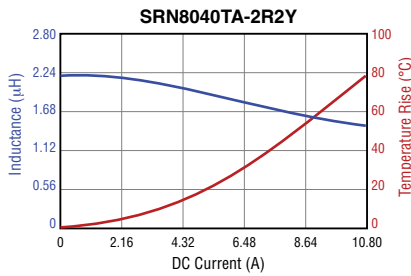
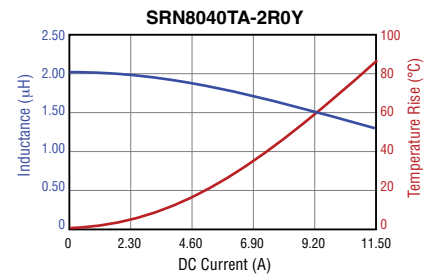
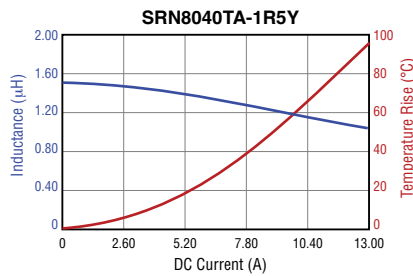
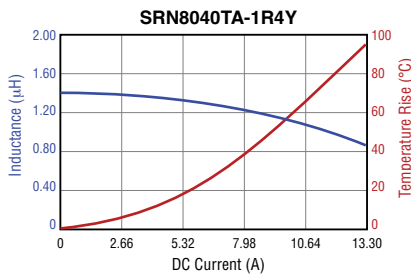
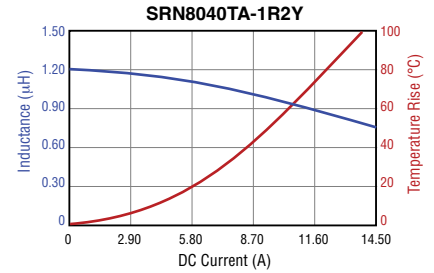
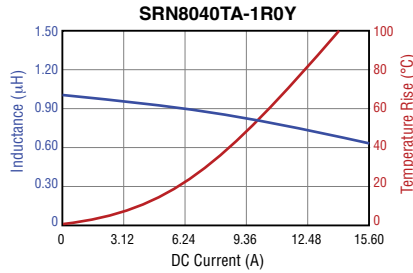
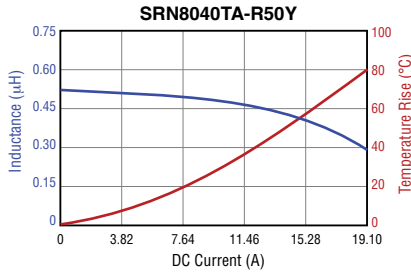
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** 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. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

SRN8040TA Series – Semi-shielded Power Inductors



Inductance vs. Current



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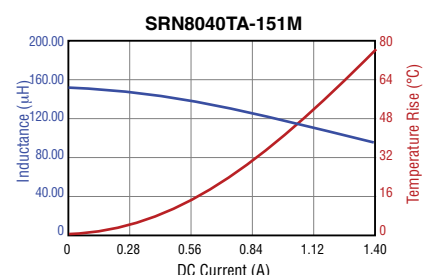
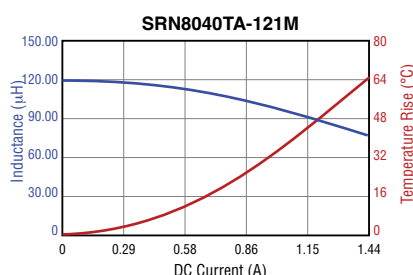
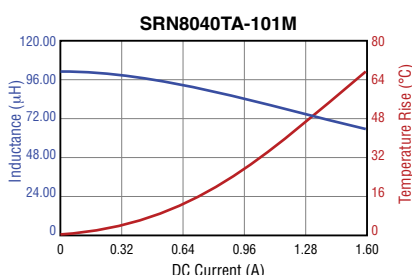
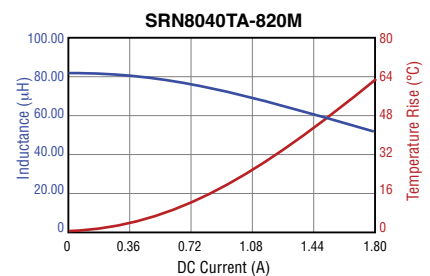
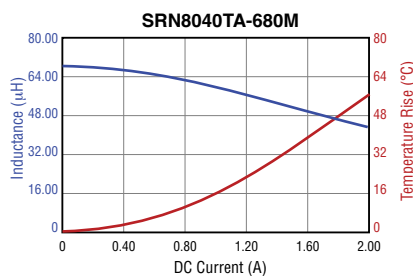
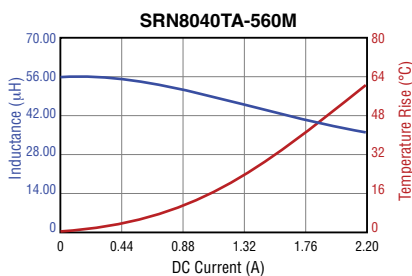
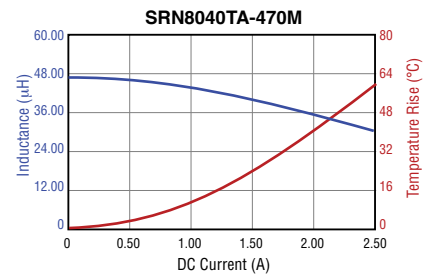
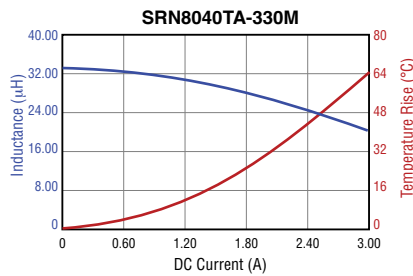
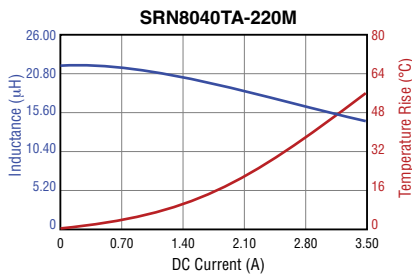
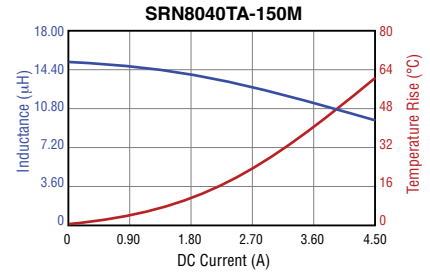
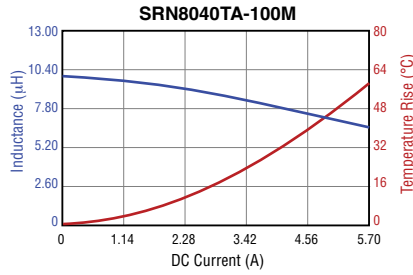
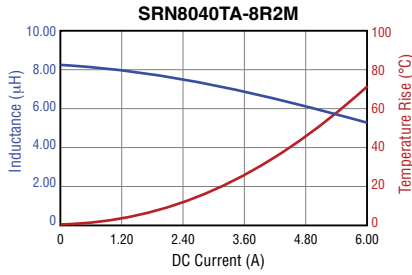
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SRN8040TA Series – Semi-shielded Power Inductors



Inductance vs. Current (continued)

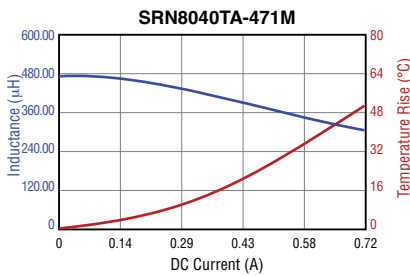
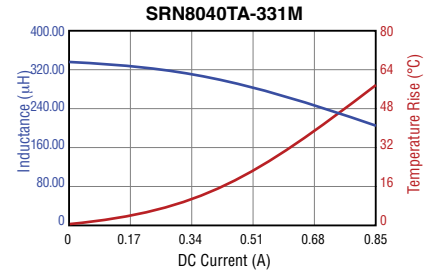
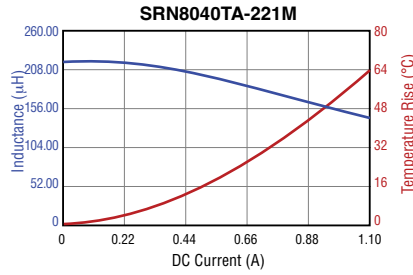
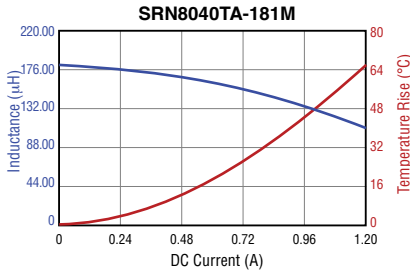


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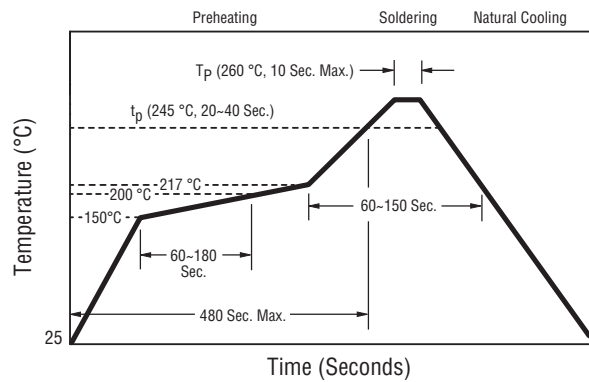
SRN8040TA Series – Semi-shielded Power Inductors



Inductance vs. Current (continued)



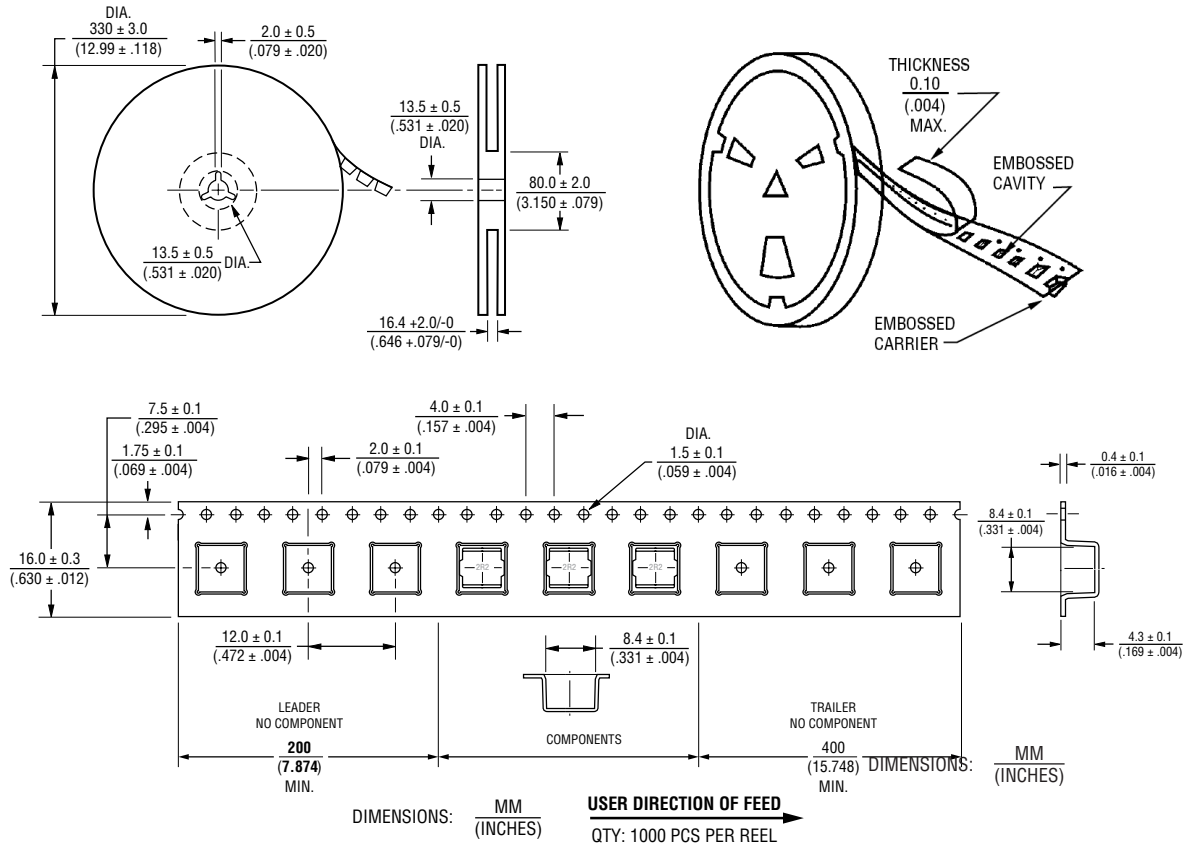
Soldering Profile



SRN8040TA Series – Semi-shielded Power Inductors

BOURNS®

Packaging Specifications



BOURNS®

Americas: Tel: +1 951-781-5500 • Email: americus@bourns.com

Mexico: Tel: +52-614-478-0400 • Email: mexicus@bourns.com

Asia: Tel: +886-2-2562-4117 • Email: asiacus@bourns.com

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