



## Features

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

## Additional Information

Click these links for more information:



PRODUCT  
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TECHNICAL  
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INVENTORY



SAMPLES



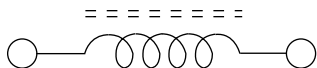
CONTACT

## 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 $\Omega$ ) $\pm 20$ %	I <sub>rms</sub> (A) Typ.	I <sub>sat</sub> (A) Typ.
	L ( $\mu$ 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

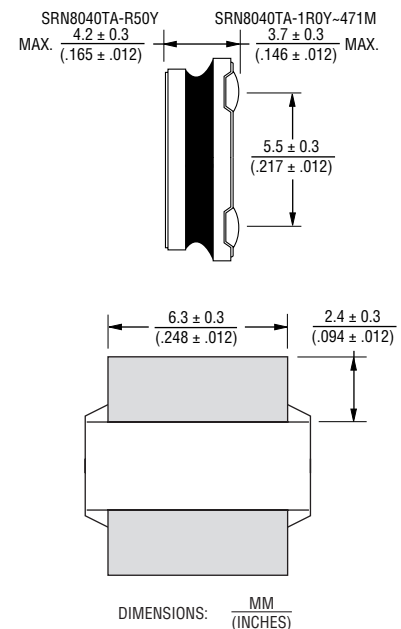
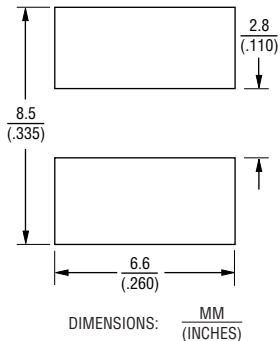


### How to Order

SRN8040TA - 100M

Model \_\_\_\_\_  
Value Code (see table) \_\_\_\_\_

### Recommended Layout



**CALIFORNIA WARNING:** Can expose you to lead, a carcinogen and reproductive toxicant.  
See [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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

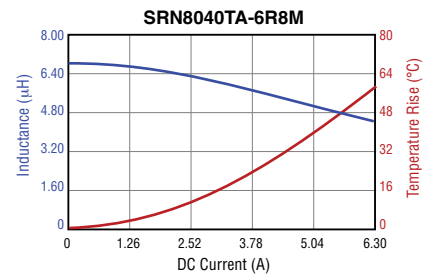
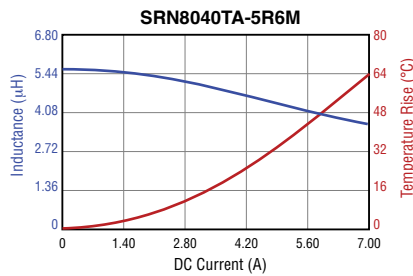
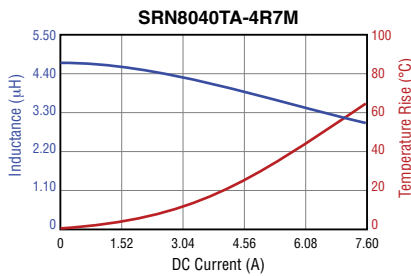
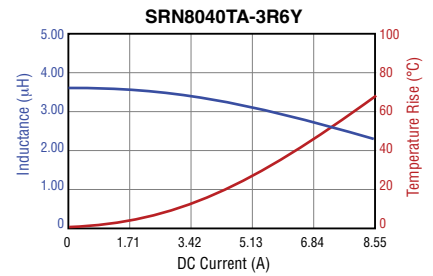
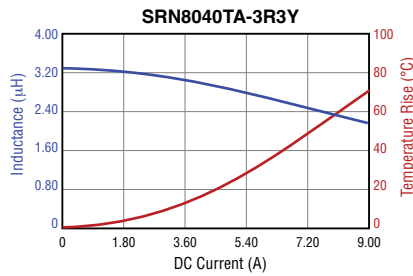
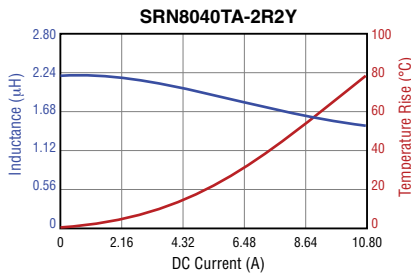
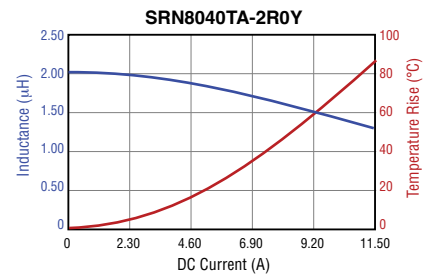
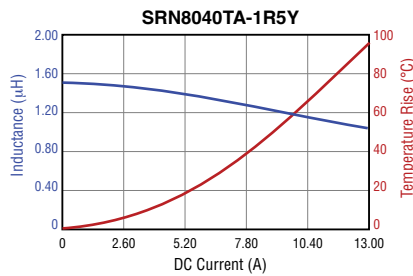
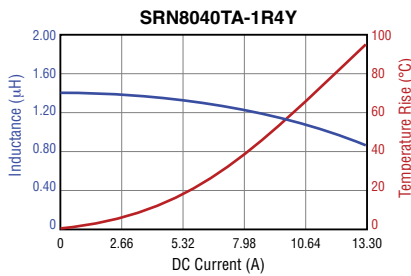
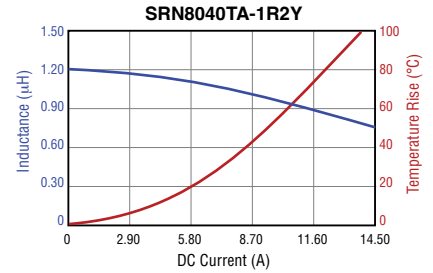
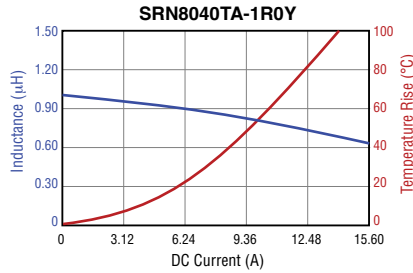
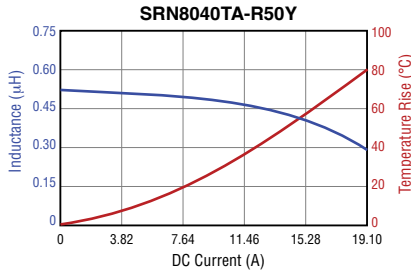
\*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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# SRN8040TA Series – Semi-shielded Power Inductors

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## Inductance vs. Current



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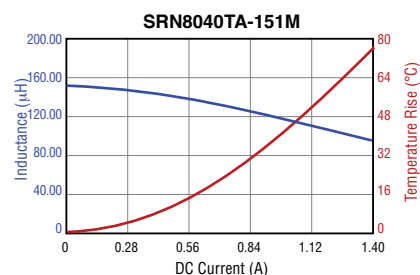
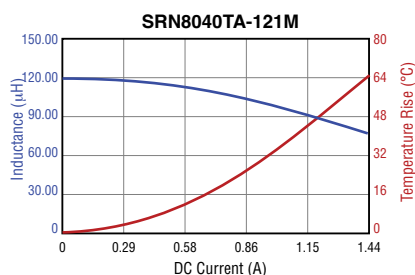
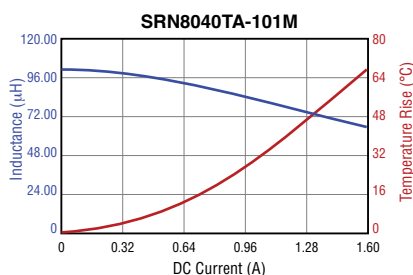
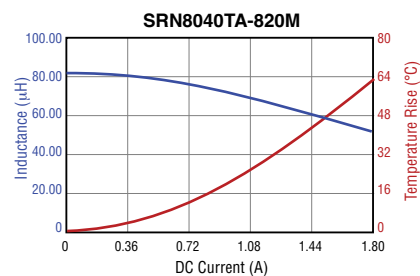
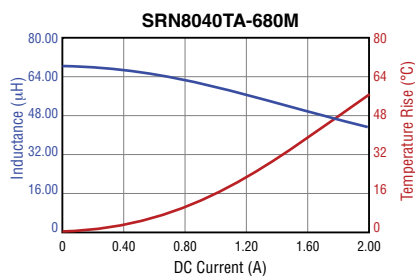
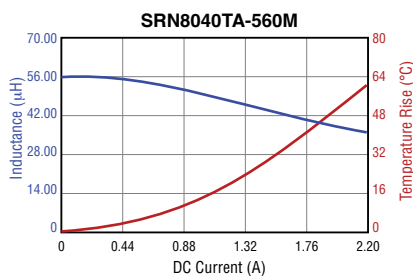
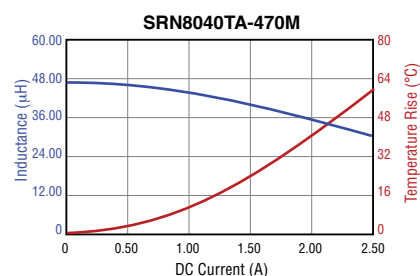
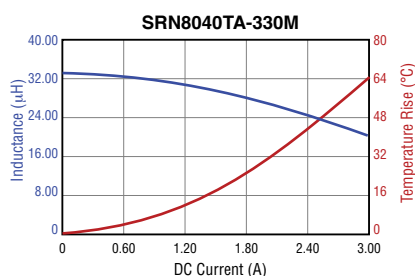
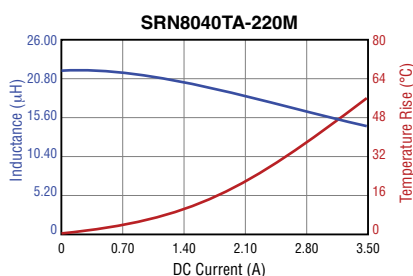
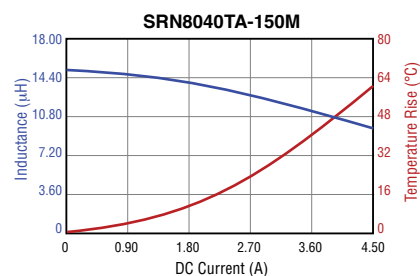
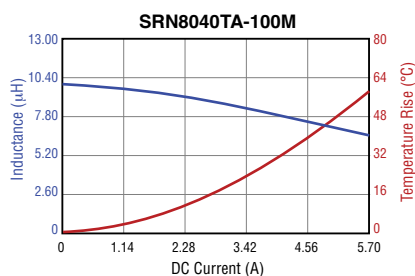
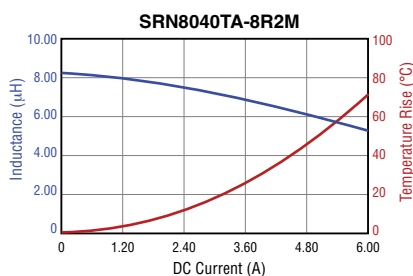
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# SRN8040TA Series – Semi-shielded Power Inductors

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## Inductance vs. Current (continued)



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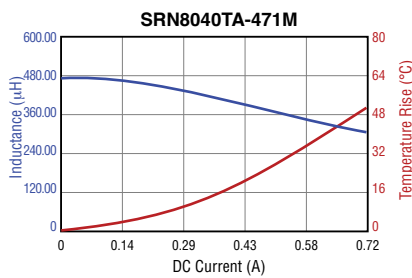
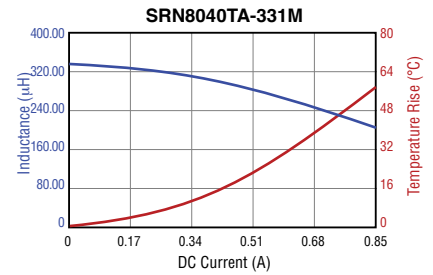
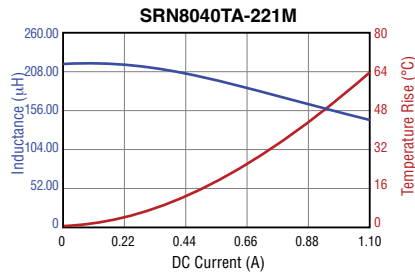
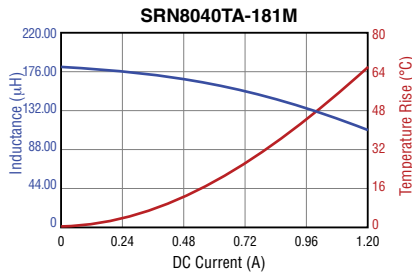
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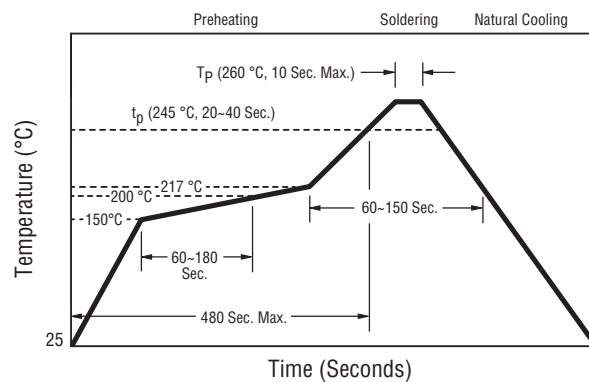
## SRN8040TA Series – Semi-shielded Power Inductors

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### Inductance vs. Current (continued)



### Soldering Profile



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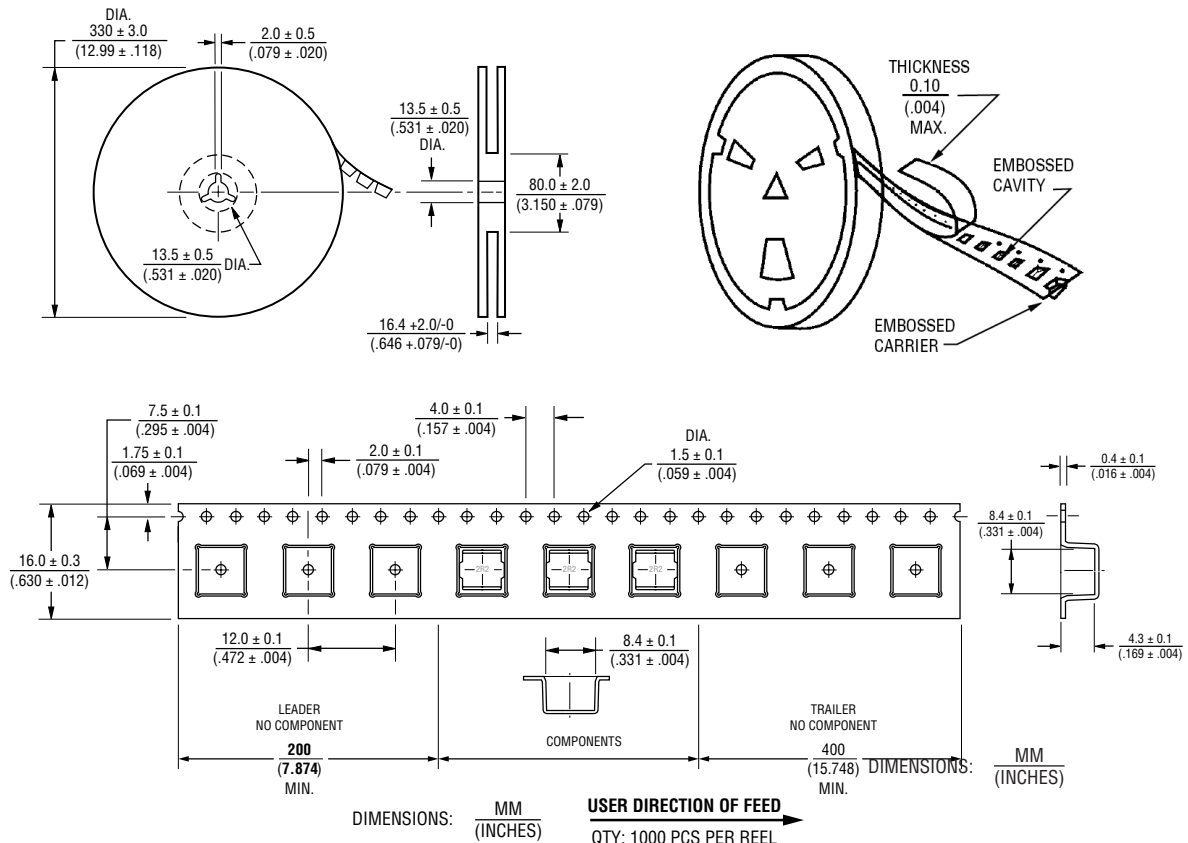
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# SRN8040TA Series – Semi-shielded Power Inductors

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## Packaging Specifications



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