



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





## Features

- Shielded construction
- Inductance range: 1.2 to 220  $\mu$ H
- Heating current up to 5 A
- AEC-Q200 qualified
- RoHS compliant\* and halogen free\*\*

## Applications

- Automotive systems:
  - Driver assistant
  - Infotainment
  - Lighting
- DC/DC converters
- Power supplies

# SRR4828A Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

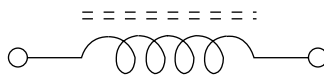
Bourns Part Number	Inductance @ 100 kHz/0.1 V		SRF (MHz) Typ.	DCR ( $m\Omega$ )		I rms <sup>1</sup> (A) Typ.	I rms <sup>2</sup> (A) Typ.	I sat (A) Typ.
	L ( $\mu$ H)	Tol. (%)		Typ.	Max.			
SRR4828A-1R2Y	1.2	± 30	155.0	18.5	24.0	3.50	5.00	3.00
SRR4828A-1R8Y	1.8	± 30	105.0	22.7	30.0	3.00	4.60	2.50
SRR4828A-2R7Y	2.7	± 30	80.0	26.2	34.0	2.50	4.00	2.20
SRR4828A-3R9Y	3.9	± 30	60.0	36.3	47.0	2.20	3.40	1.80
SRR4828A-4R7Y	4.7	± 30	50.0	41.4	54.0	2.10	3.00	1.60
SRR4828A-6R8Y	6.8	± 30	40.0	57.0	74.0	1.65	2.60	1.30
SRR4828A-8R2Y	8.2	± 30	35.0	66.8	87.0	1.60	2.40	1.25
SRR4828A-100M	10	± 20	30.0	76.4	100.0	1.50	2.30	1.10
SRR4828A-120M	12	± 20	27.0	100.0	125.0	1.35	2.00	0.95
SRR4828A-150M	15	± 20	25.0	108.8	145.0	1.30	1.80	0.92
SRR4828A-180M	18	± 20	22.0	125.0	160.0	1.20	1.70	0.80
SRR4828A-220M	22	± 20	20.0	145.9	185.0	1.10	1.55	0.68
SRR4828A-330M	33	± 20	15.0	208.2	260.0	0.90	1.40	0.60
SRR4828A-470M	47	± 20	13.0	215.0	270.0	0.88	1.20	0.47
SRR4828A-560M	56	± 20	12.0	260.4	320.0	0.85	1.05	0.40
SRR4828A-680M	68	± 20	11.0	294.3	370.0	0.80	0.90	0.38
SRR4828A-820M	82	± 20	10.0	381.9	480.0	0.70	0.85	0.35
SRR4828A-101M	100	± 20	8.5	495.3	600.0	0.65	0.70	0.33
SRR4828A-121M	120	± 20	8.0	630.0	760.0	0.50	0.65	0.30
SRR4828A-151M	150	± 20	7.0	713.9	860.0	0.45	0.60	0.28
SRR4828A-181M	180	± 20	6.0	899.1	1080.0	0.43	0.55	0.26
SRR4828A-221M	220	± 20	5.5	1000.7	1250.0	0.41	0.50	0.24

### How to Order

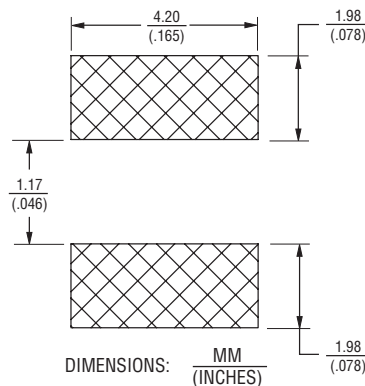
**SRR4828A - 1R2Y**

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

### Electrical Schematic



### Recommended Layout



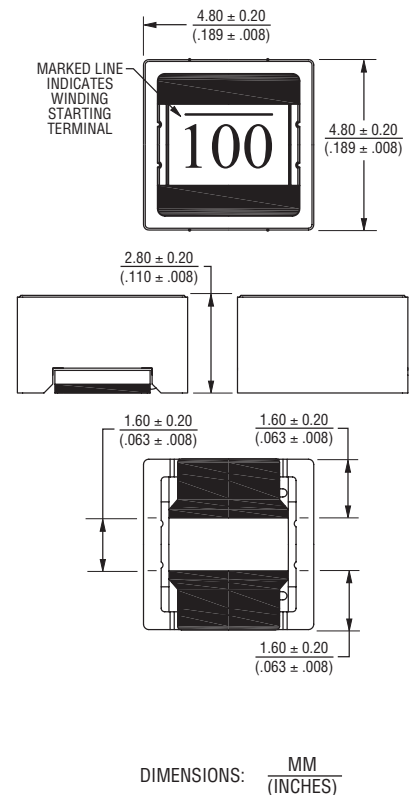
### General Specifications

Operating Temp. .... -40 °C to +150 °C  
(Temperature rise included)  
Storage Temperature .. -40 °C to +150 °C  
Temperature Rise  
..... 20 °C typ. at rated I rms<sup>1</sup>  
..... 40 °C typ. at rated I rms<sup>2</sup>  
Rated Current  
..... Inductance drops 35 % at I sat  
Moisture Sensitivity Level ..... 1  
ESD Classification (HBM) ..... N/A

### Materials

Core ..... Ferrite  
Wire ..... Enameled copper  
Terminal Finish ..... Sn  
Packaging ..... 500 pcs. per 7-inch reel

### Product Dimensions



\*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.

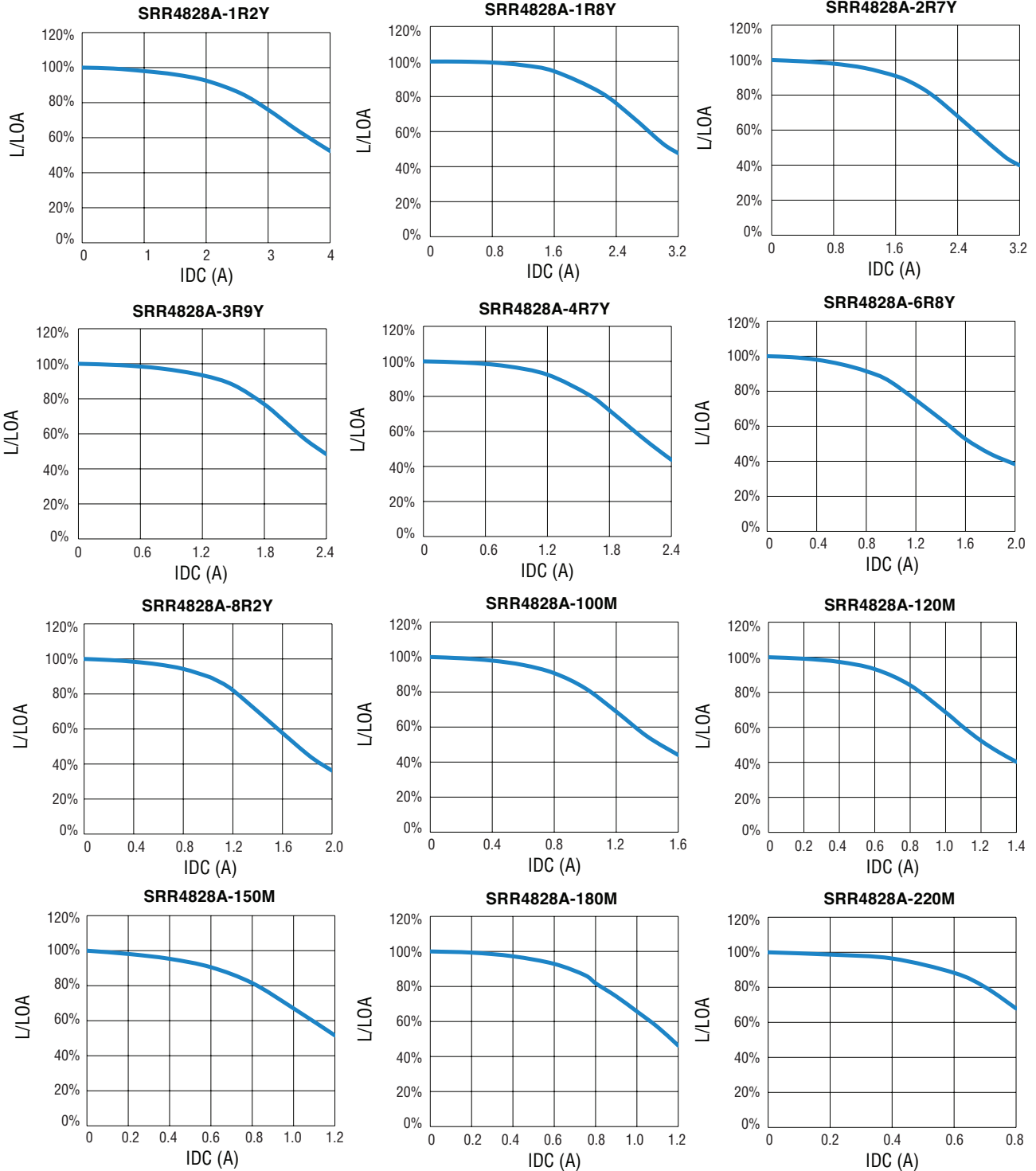
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

# SRR4828A Series - Shielded Power Inductors

**BOURNS®**

## Inductance vs. IDC



Specifications are subject to change without notice.

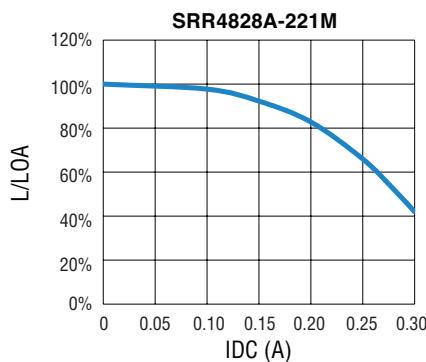
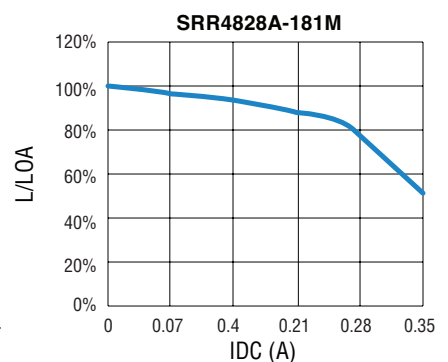
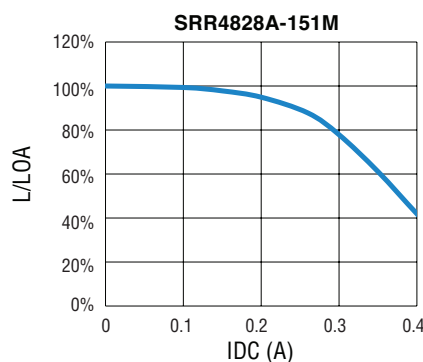
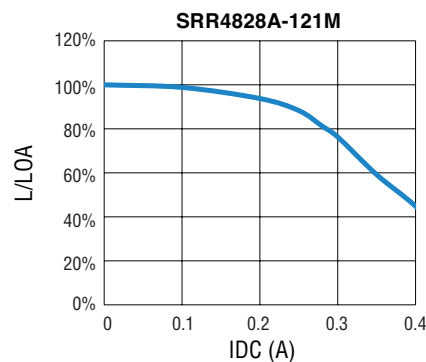
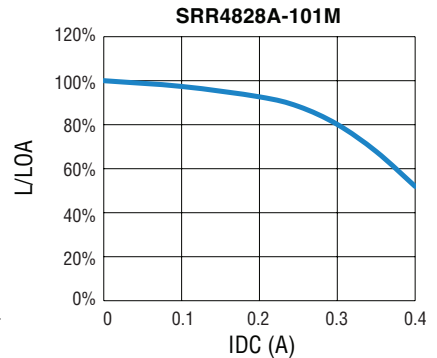
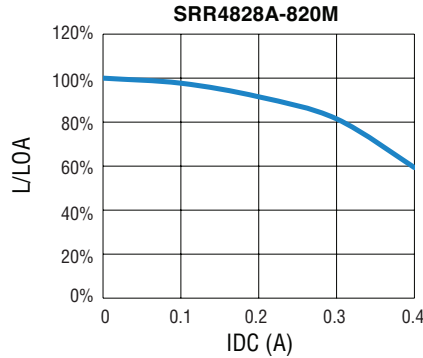
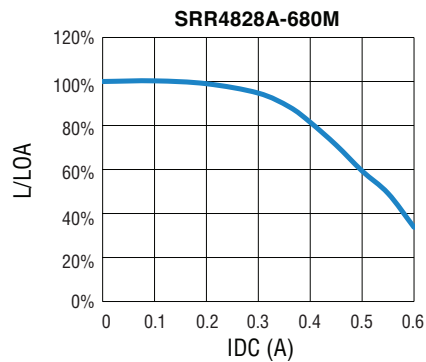
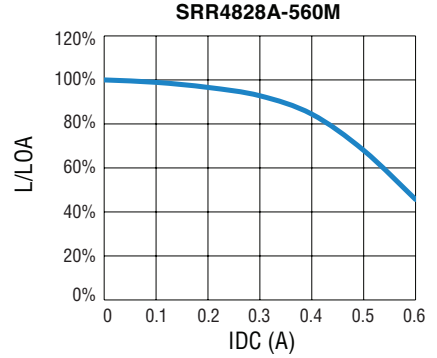
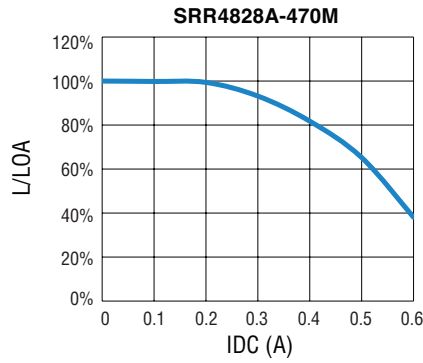
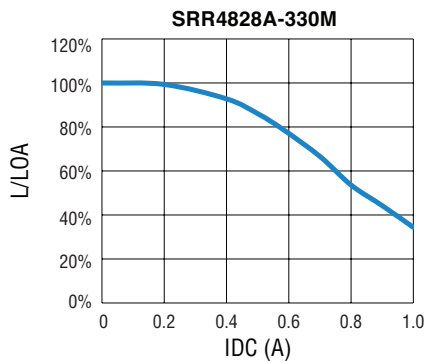
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.



# SRR4828A Series - Shielded Power Inductors

**BOURNS®**

## Inductance vs. IDC (Continued)



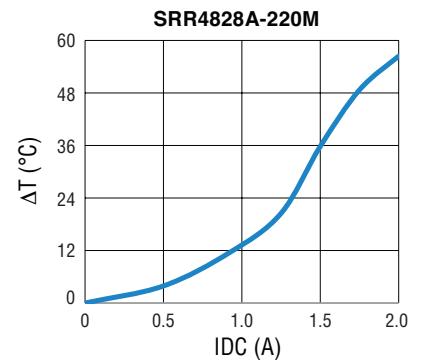
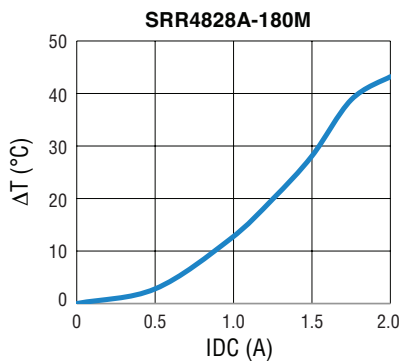
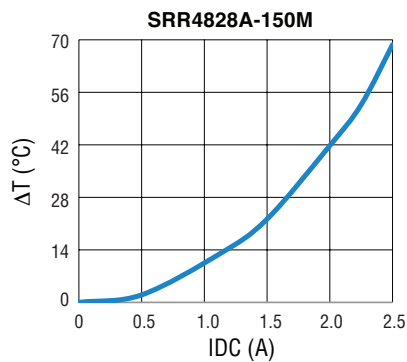
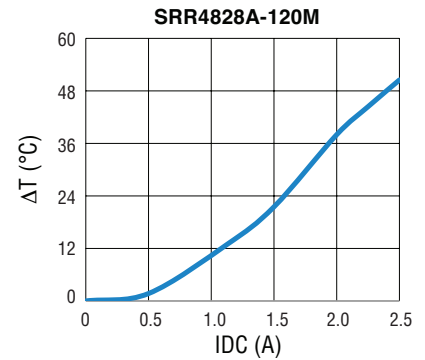
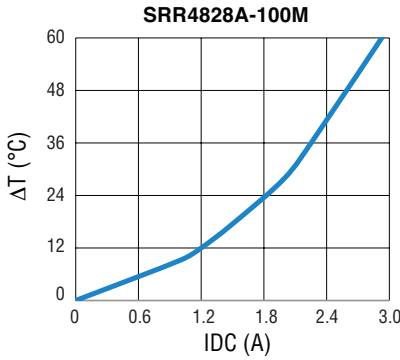
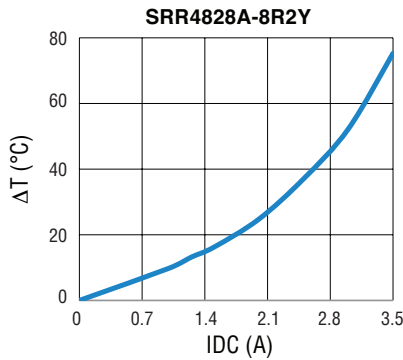
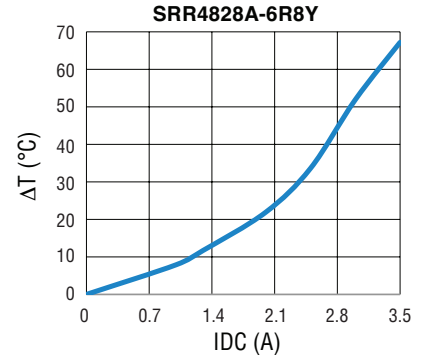
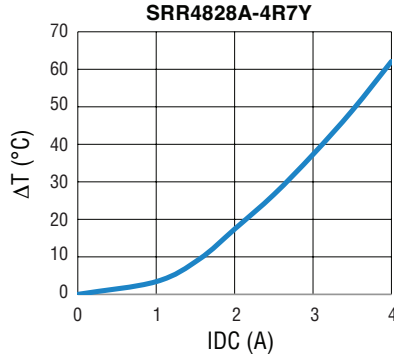
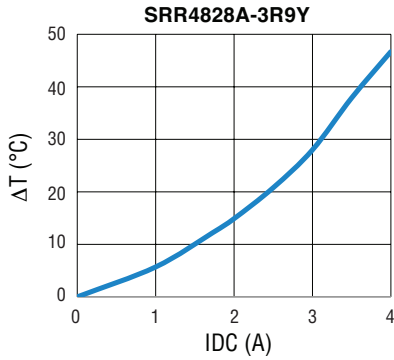
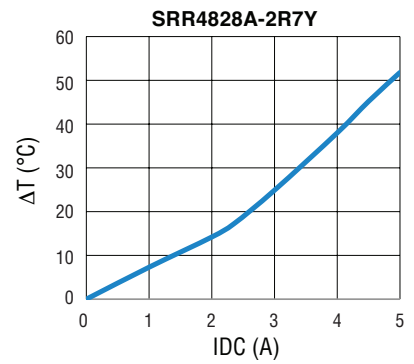
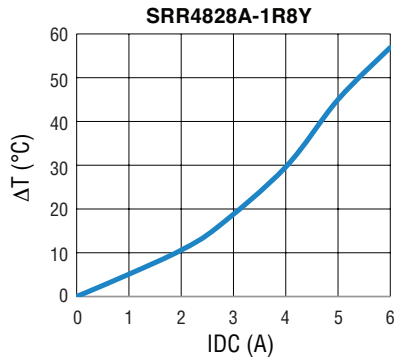
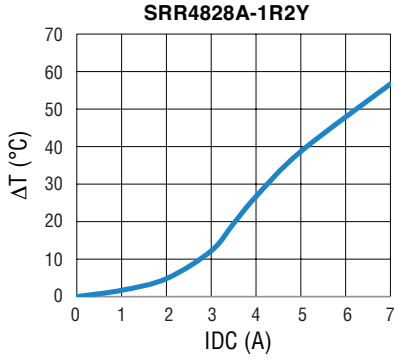
Specifications are subject to change without notice.

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.

# SRR4828A Series - Shielded Power Inductors

**BOURNS®**

## Temperature vs. IDC



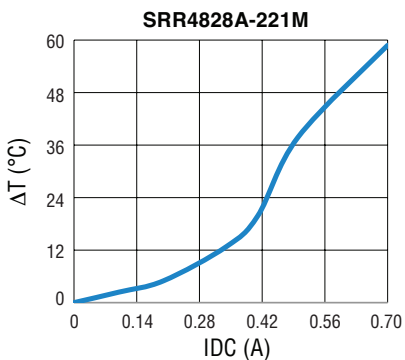
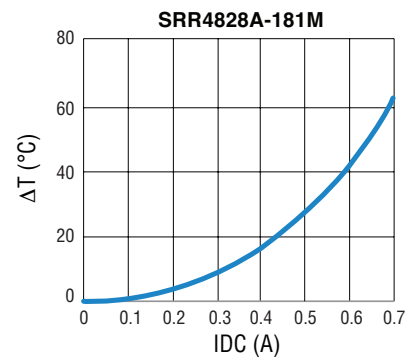
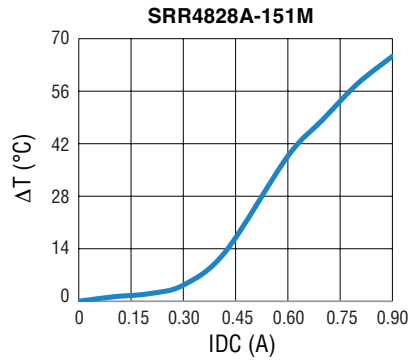
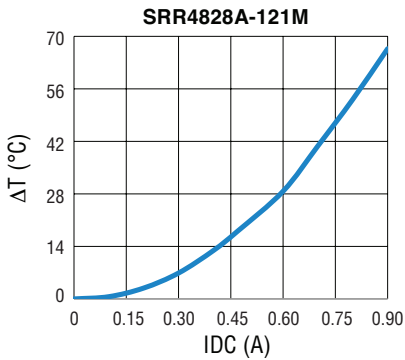
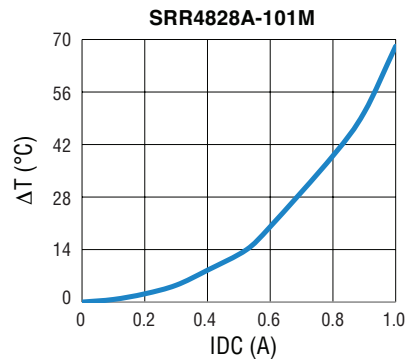
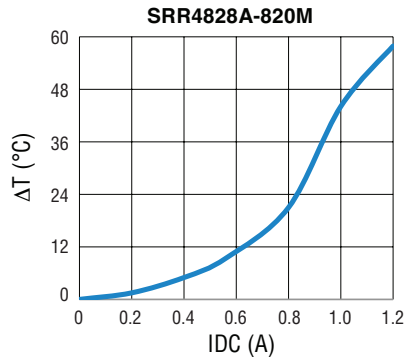
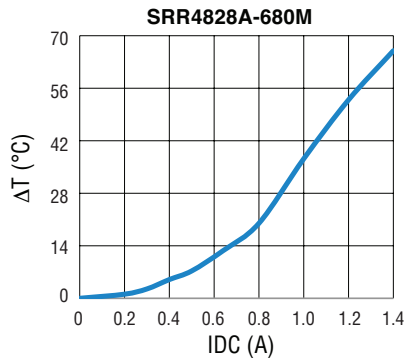
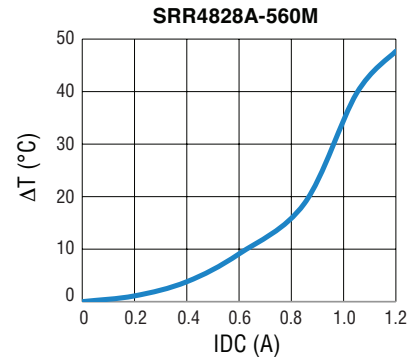
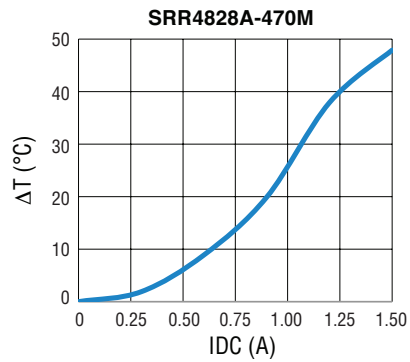
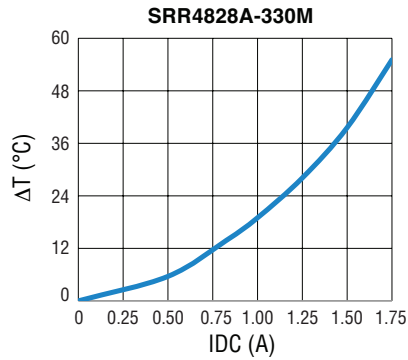
Specifications are subject to change without notice.

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.

# SRR4828A Series - Shielded Power Inductors

**BOURNS®**

## Temperature vs. IDC (Continued)



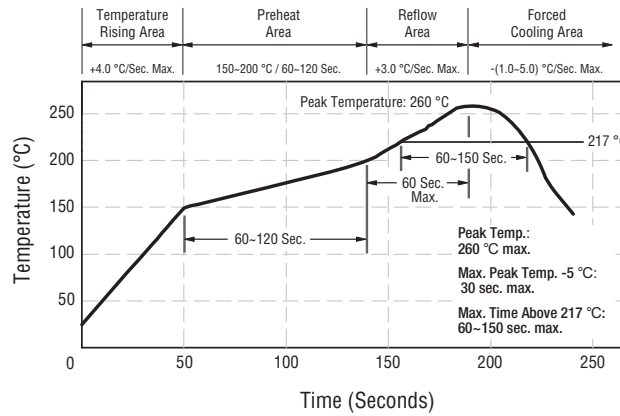
Specifications are subject to change without notice.

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.

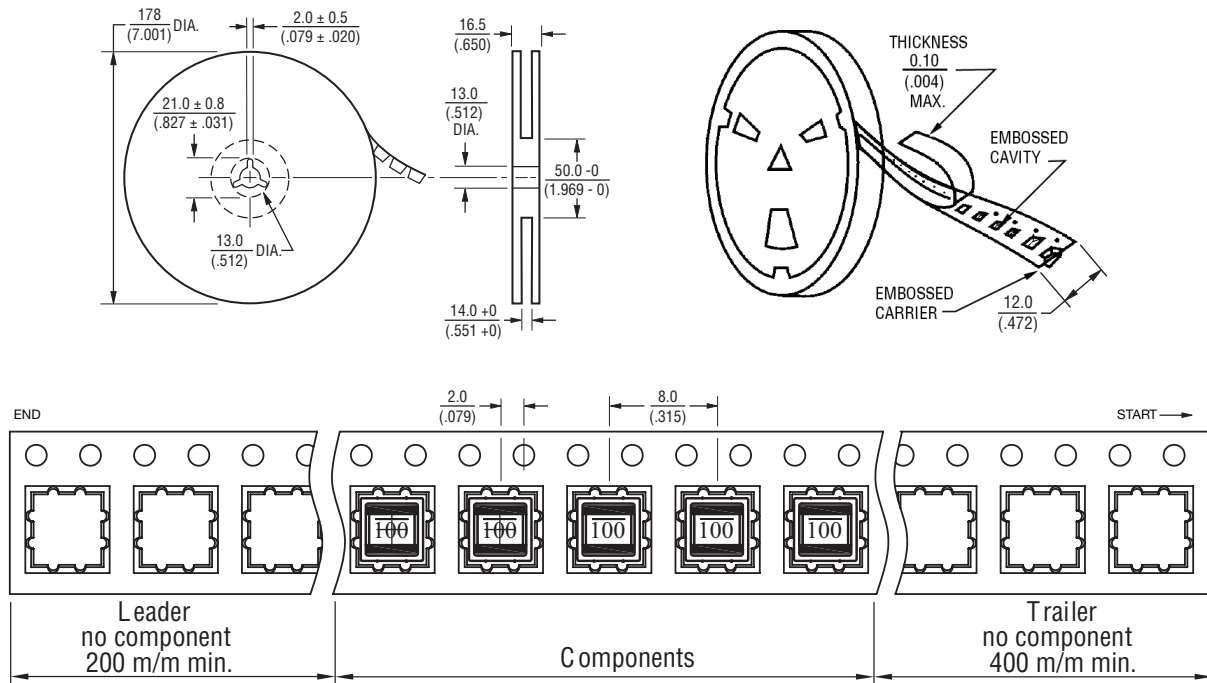
# SRR4828A Series - Shielded Power Inductors

**BOURNS®**

## Soldering Profile



## Packaging Specifications



USER DIRECTION OF FEED →

QTY: 500 PCS. PER REEL

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

REV. 08/17

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.