



## Features

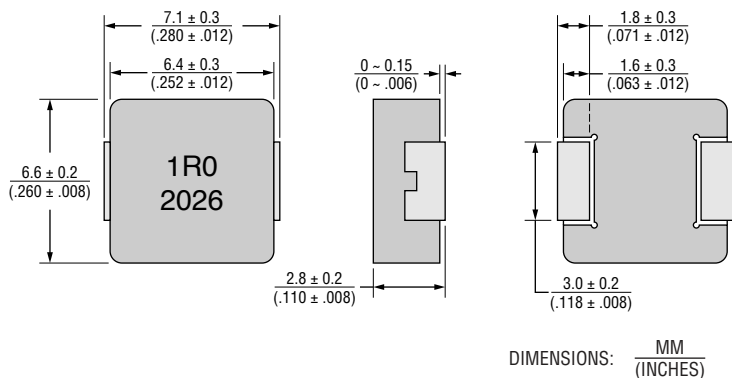
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

## SRP7028AA Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Typ.) @100 KHz / 1 V	SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	Irms (A) Typ.	Isat (A) Typ.
	L (μH)	Tol. (%)						
SRP7028AA-R15Y	0.15	30	8	160	1.7	2.1	30	40
SRP7028AA-R22M	0.22	20	8	130	2	2.5	23	34
SRP7028AA-R33M	0.33	20	8	95	2.8	3.4	21	25
SRP7028AA-R36M	0.36	20	8	90	3.3	3.9	20	24
SRP7028AA-R47M	0.47	20	8	62	3.4	4	18	20
SRP7028AA-R56M	0.56	20	10	57	3.9	4.5	16.5	18
SRP7028AA-R68M	0.68	20	10	52	4.7	5.3	16	17
SRP7028AA-R82M	0.82	20	10	50	5.4	6	14	16
SRP7028AA-1R0M	1.00	20	10	42	6.7	7.4	12	15
SRP7028AA-1R2M	1.20	20	10	40	7.7	9.5	10	14
SRP7028AA-1R5M	1.50	20	10	38	10.2	12.1	10	14
SRP7028AA-2R2M	2.20	20	10	26	13.5	15	8	10
SRP7028AA-2R7M	2.70	20	10	25	17.3	20	7.2	9.8
SRP7028AA-3R3M	3.30	20	10	22	19	22	6.5	9.5
SRP7028AA-4R7M	4.70	20	10	20	28	33	5.5	6.5
SRP7028AA-5R6M	5.60	20	10	17	39	42	5.5	6
SRP7028AA-6R8M	6.80	20	10	16	43	50	4.5	6
SRP7028AA-8R2M	8.20	20	10	15	54	60	4.5	6
SRP7028AA-100M	10.0	20	10	14	62	68	4	5.5
SRP7028AA-150M	15.0	20	10	10	110	140	3	4.5
SRP7028AA-220M	22.0	20	10	9	150	190	2.5	3

### Product Dimensions



### Additional Information

Click these links for more information:



### General Specifications

#### Operating Temperature

.....-55 °C to +155 °C  
(Temperature rise included)

#### Storage Temperature (Component)

.....-55 °C to +155 °C

#### Rated Current

..... Inductance drops 30 % at Isat

Temperature Rise ... 40 °C at rated Irms<sup>1</sup>

Moisture Sensitivity Level..... 1

ESD Classification (HBM)..... N/A

1 Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

### Materials

Core..... Metal alloy powder

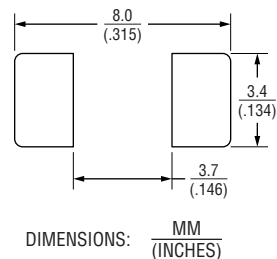
Wire..... Enameled copper

Terminal Finish..... Sn

Packaging.... 1,000 pcs. per 13-inch reel

Please consult [Bourns® Model SRP-A Series Visual Inspection Guide](#) for detailed construction, processing and testing information.

### Recommended Layout



**WARNING**  
Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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

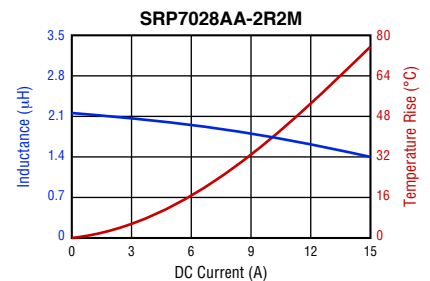
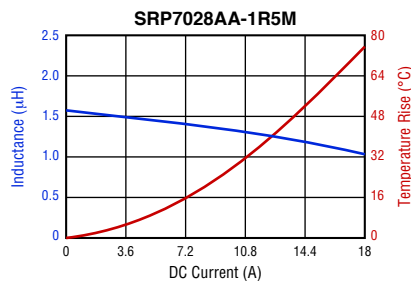
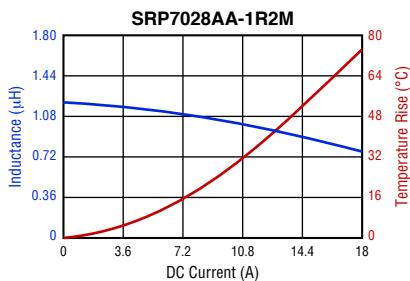
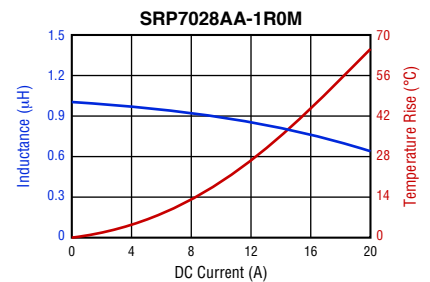
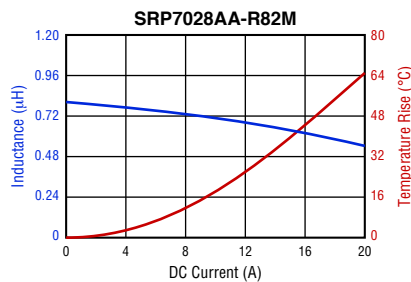
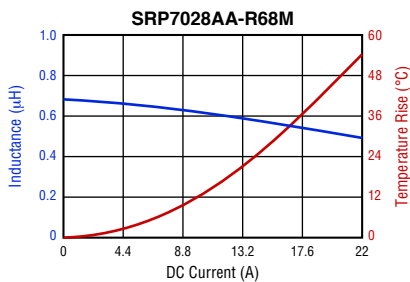
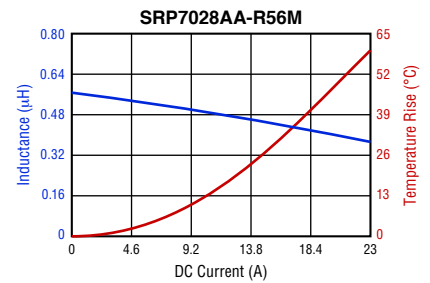
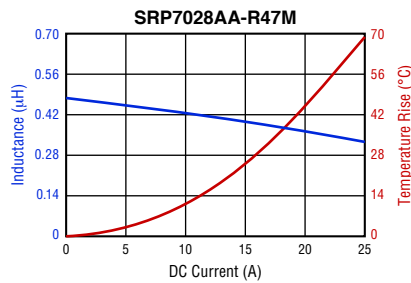
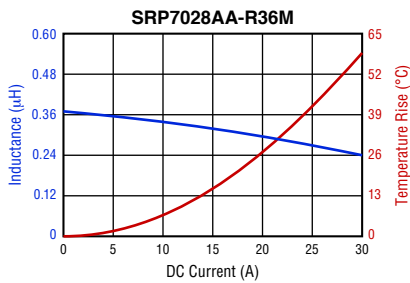
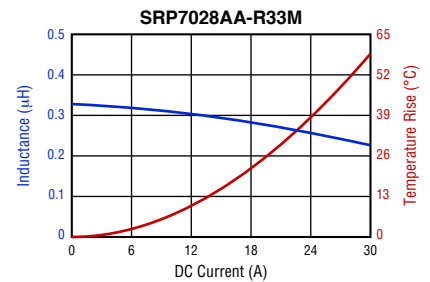
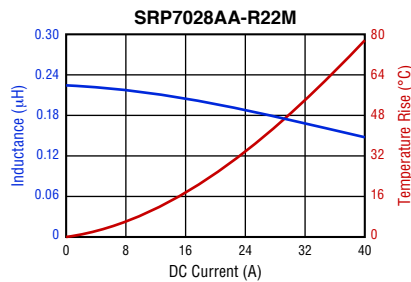
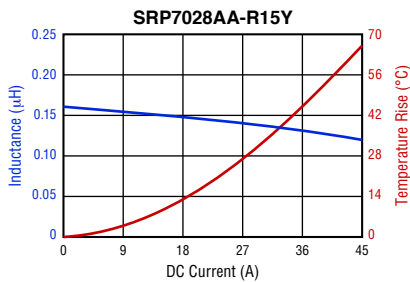
\*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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## SRP7028AA Series - Shielded Power Inductors

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### L vs. I Charts



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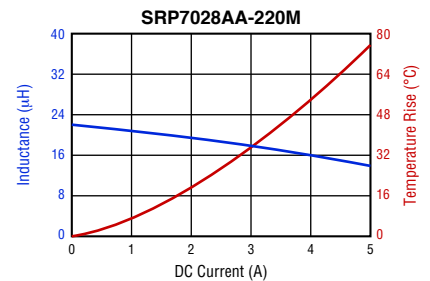
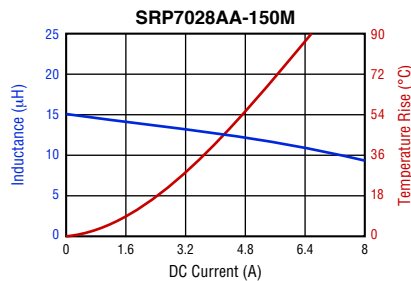
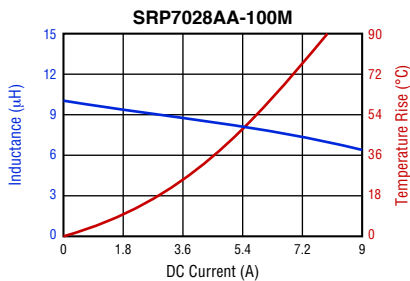
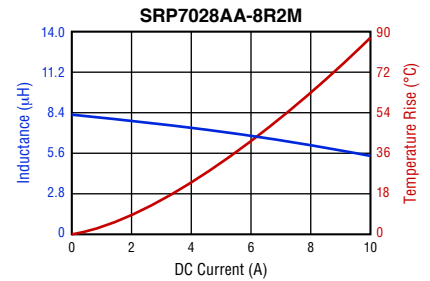
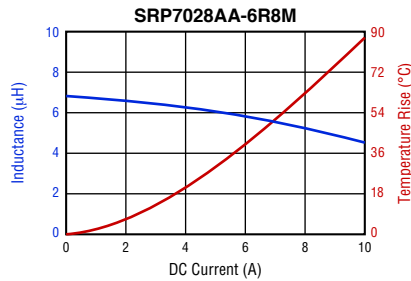
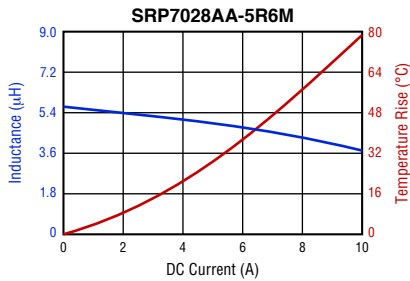
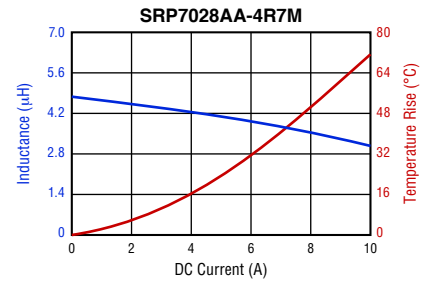
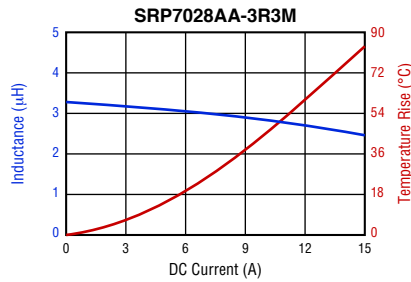
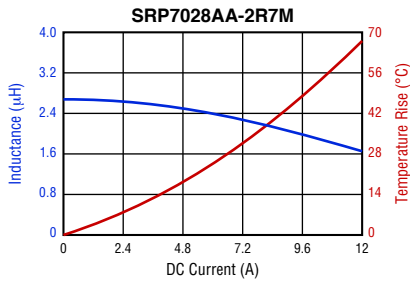
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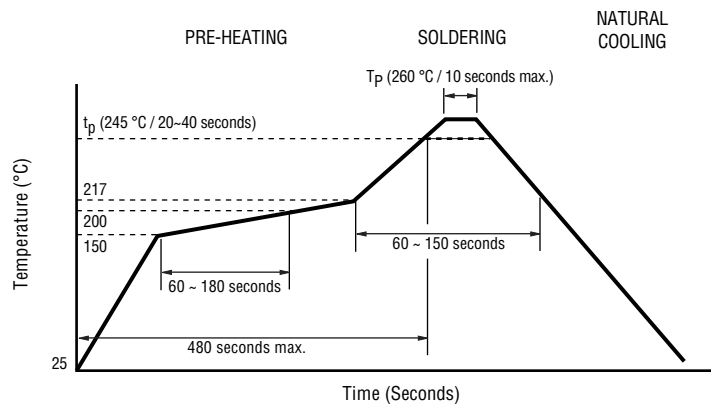
# SRP7028AA Series - Shielded Power Inductors

**BOURNS®**

## L vs. I Charts



## Soldering Profile



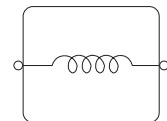
REFLOW TIMES: 3 MAX.

## How to Order

**SRP7028AA - 1R0M**

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

## Electrical Schematic



Specifications are subject to change without notice.

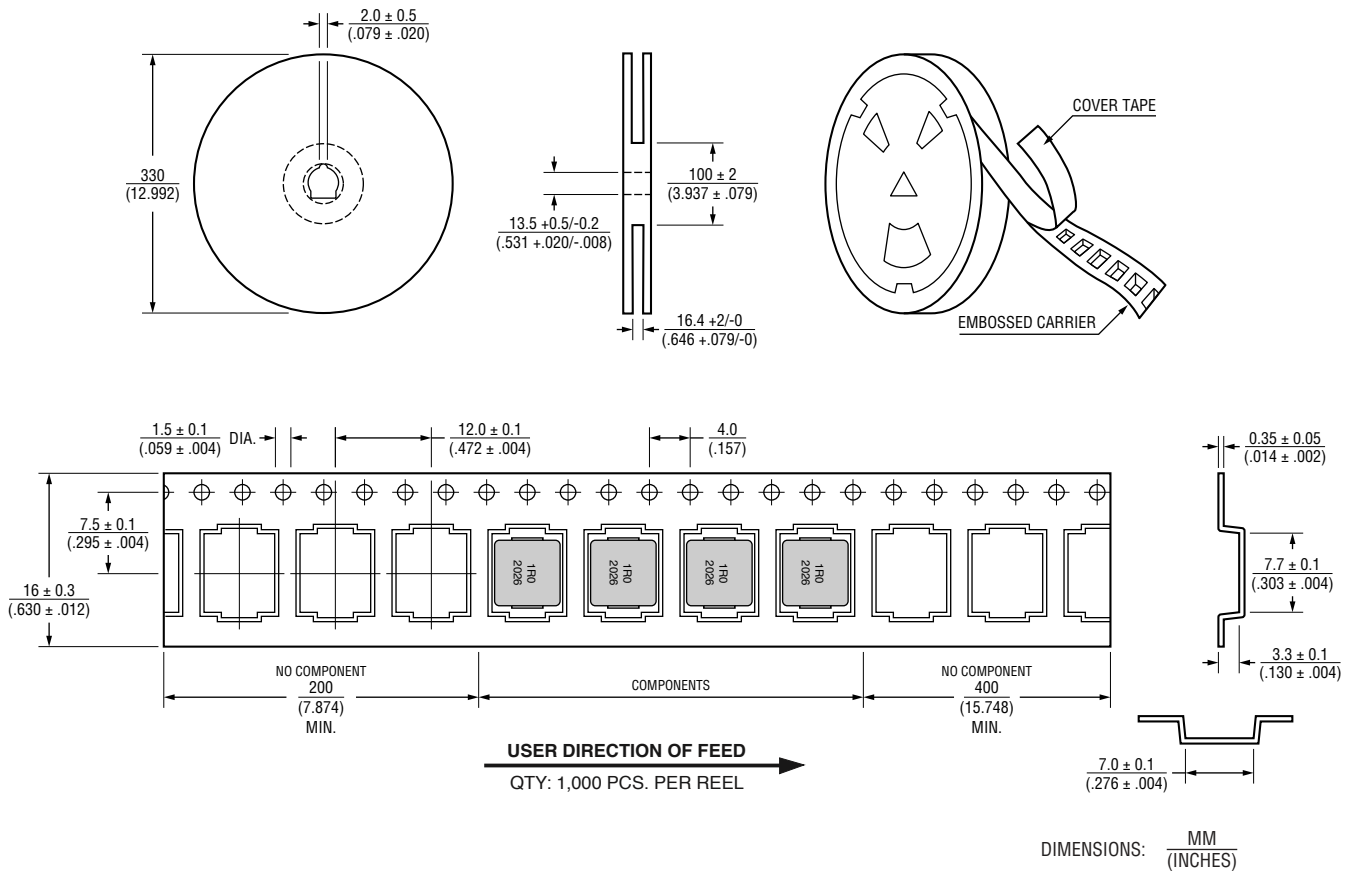
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## SRP7028AA Series - Shielded Power Inductors

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### Packaging Specifications



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