



BOURNS®

Features

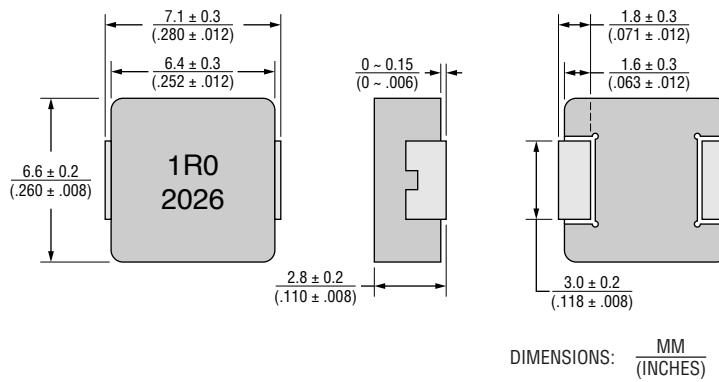
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

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 Irms¹
Moisture Sensitivity Level 1
ESD Classification (HBM) N/A

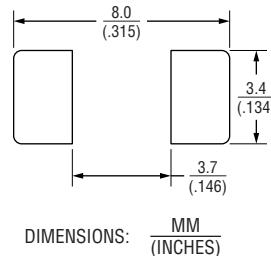
1 Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Core Metal alloy powder
Wire Enamelled 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



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WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

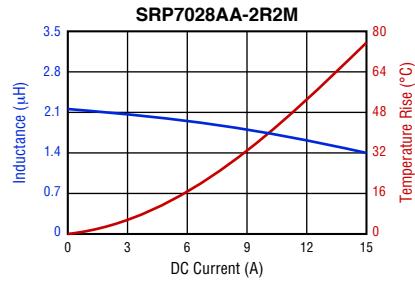
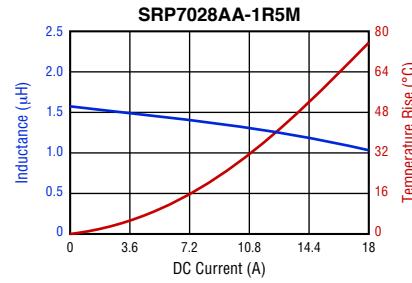
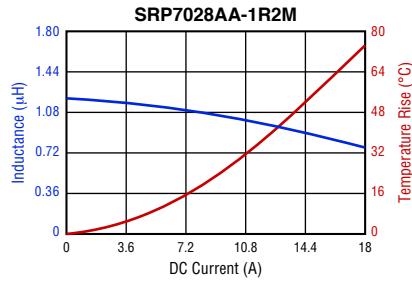
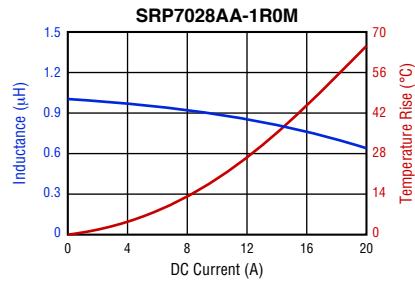
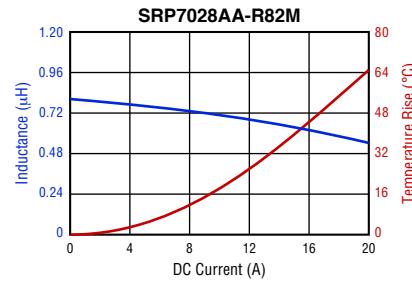
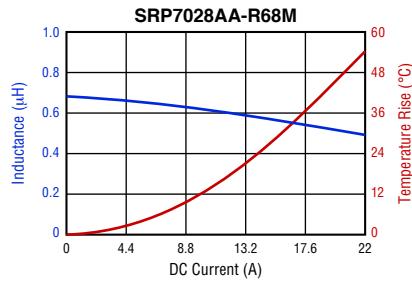
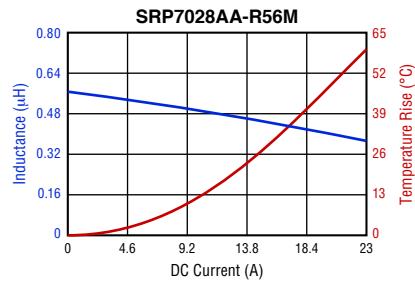
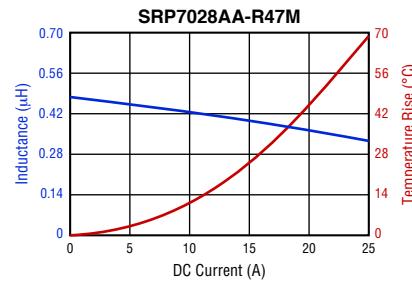
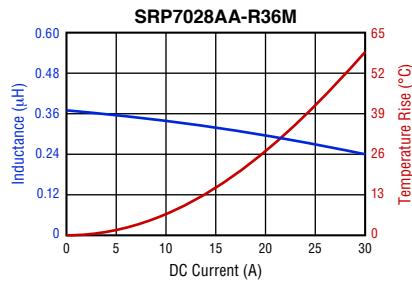
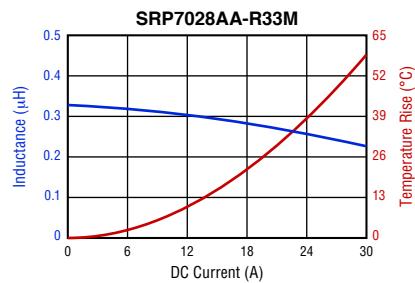
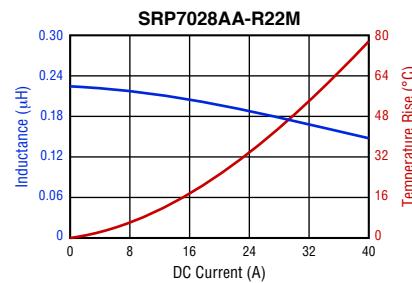
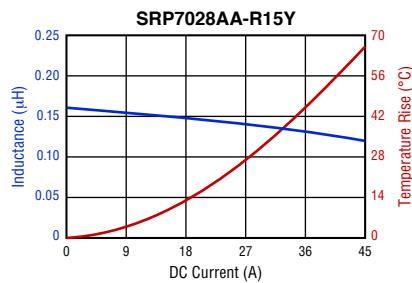
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** 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.

SRP7028AA Series - Shielded Power Inductors

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L vs. I Charts



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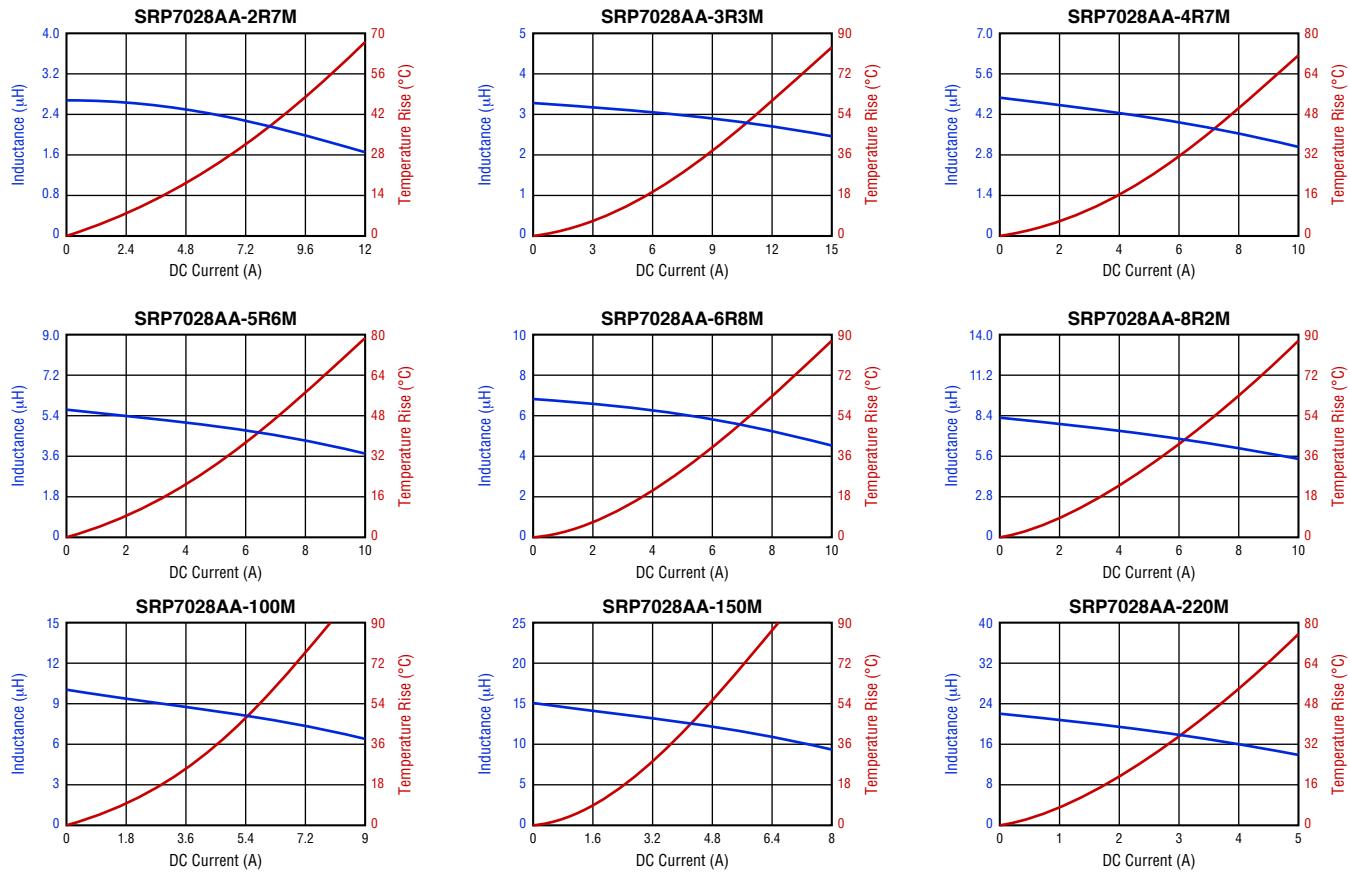
Users should verify actual device performance in their specific applications.

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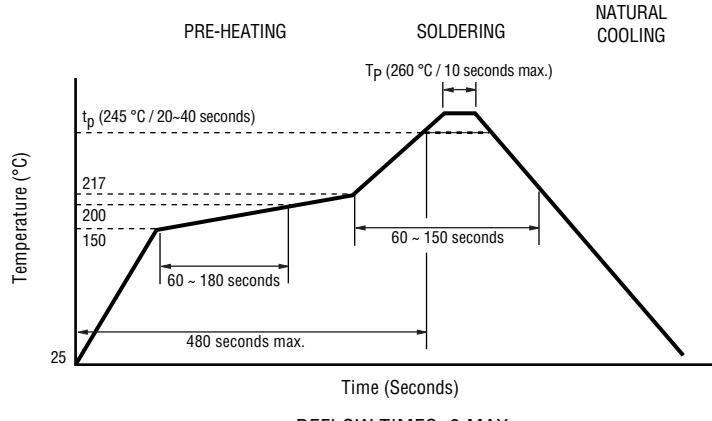
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L vs. I Charts



Soldering Profile



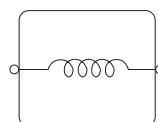
How to Order

SRP7028AA - 1R0M

Model _____

Value Code (see table) _____

Electrical Schematic



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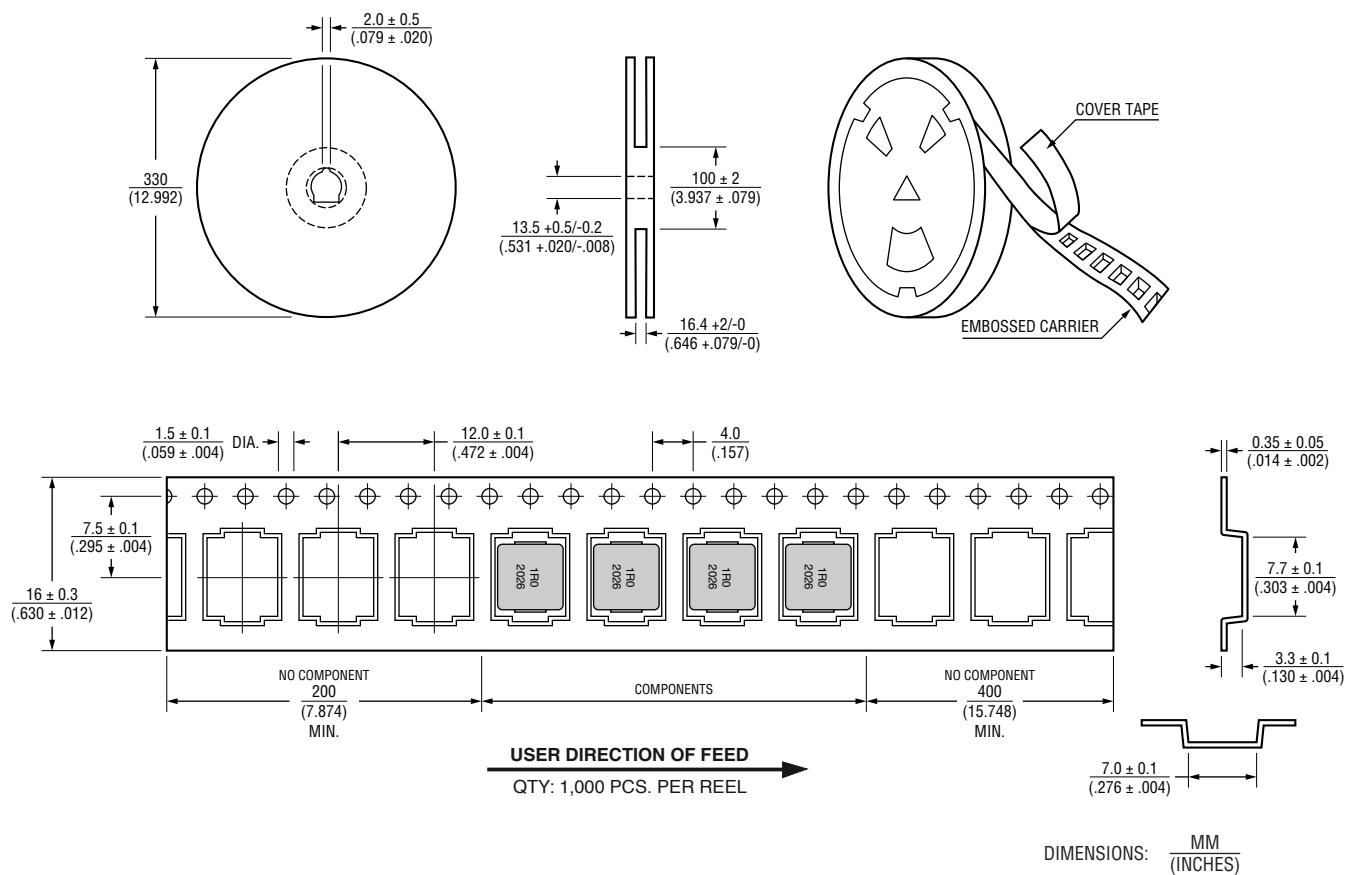
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Packaging Specifications



BOURNS®

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EMEA: Tel: +36 88 885 877 • Email: europus@bourns.com

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

www.bourns.com

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