

Features

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

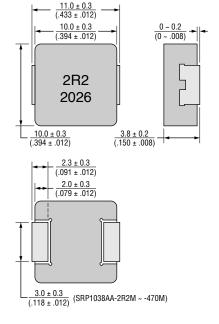
SRP1038AA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

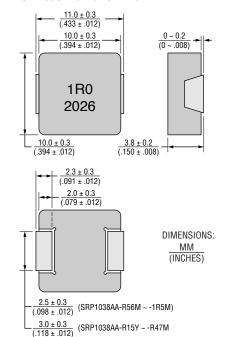
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Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Typ.) @100 KHz	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A)	Isat (A)	Terminal Type
	L (μΗ)	Tol. (%)	/1 V	Тур.	Тур.	Max.	Тур.	Тур.	туре
SRP1038AA-R15Y	0.15	30	10	190	0.5	0.6	44	82	Non- Lead Frame
SRP1038AA-R22M	0.22	20	10	150	0.72	0.83	36	70	
SRP1038AA-R36M	0.36	20	10	105	1.05	1.18	33	51	
SRP1038AA-R47M	0.47	20	10	78	1.3	1.5	32	46	
SRP1038AA-R56M	0.56	20	10	68	1.6	1.8	25	34	
SRP1038AA-R68M	0.68	20	10	60	1.9	2.2	23	31	
SRP1038AA-1R0M	1.00	20	15	50	2.9	3.25	20	29	
SRP1038AA-1R5M	1.50	20	15	36	3.7	4.2	17.5	26	
SRP1038AA-2R2M	2.20	20	15	26	5.8	6.7	15	20	Lead Frame
SRP1038AA-3R3M	3.30	20	15	20	10.5	11.8	11	17.5	
SRP1038AA-4R7M	4.70	20	15	16	15.8	19	8.8	15.2	
SRP1038AA-5R6M	5.60	20	15	14	19	22.8	8.0	14.1	
SRP1038AA-6R8M	6.80	20	15	13	22	24.5	7.8	12.2	
SRP1038AA-100M	10.0	20	20	11	27	30	7.5	8.6	
SRP1038AA-150M	15.0	20	20	9	41	45	6.25	7.0	
SRP1038AA-220M	22.0	20	20	8	58	66	5.0	6.2	
SRP1038AA-330M	33.0	20	20	6.5	84	91	4.4	5.5	
SRP1038AA-470M	47.0	20	20	5	125	143	3.5	4.0	

Product Dimensions

Lead Frame Terminal



Non-Lead Frame Terminal



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.

Additional Information

Click these links for more information:











TECHNICAL INVENTORY

General Specifications

Operating Temp.-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

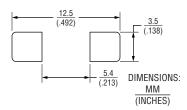
¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Core..... Metal alloy powder WireEnameled copper Terminal FinishSn Packaging...... 500 pcs. per 13-inch reel

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

Recommended Layout



Electrical Schematic



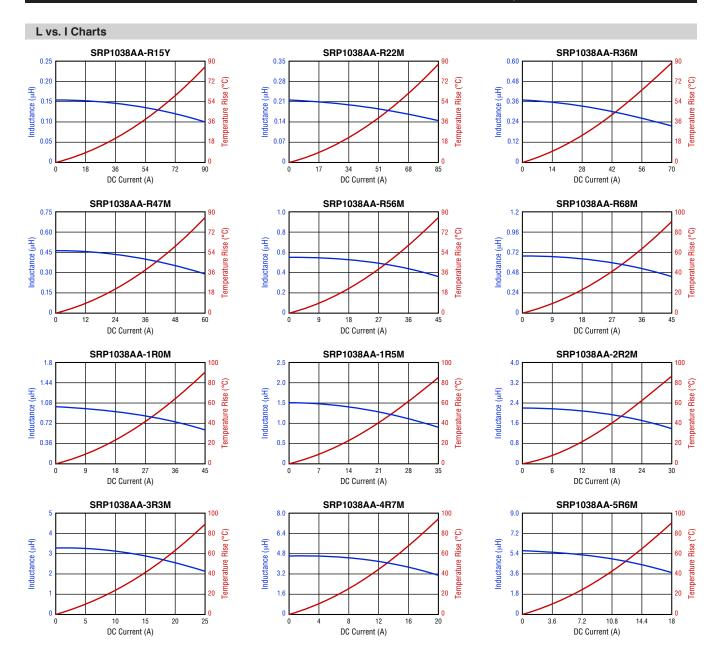


Cancer and Reproductive Harm www.P65Warnings.ca.gov

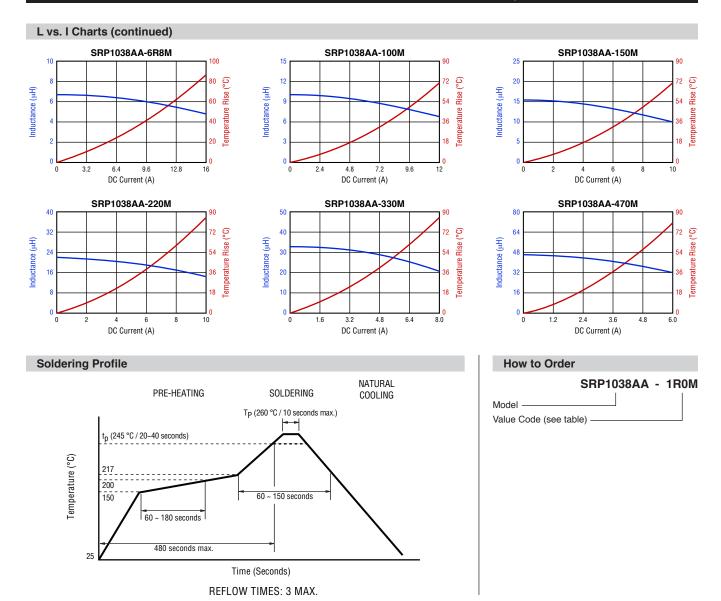
RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (CI) 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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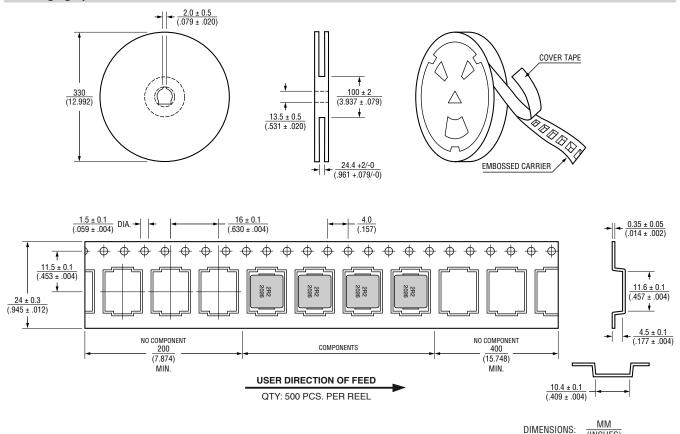


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BOURNS

(INCHES)

Packaging Specifications



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