

Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.20 to 47 µH
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

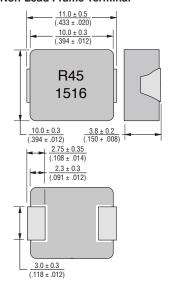
SRP1038A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz /1 V		Q (Min.) @100 KHz	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms	Isat (A)	Terminal
	L (μH)	Tol. (%)	/1 V	Тур.	Тур.	Max.	(A)	(A)	Туре
SRP1038A-R20M	0.20	20	10	155	0.66	0.95	35	70	Non- Lead Frame
SRP1038A-R22M	0.22	20	10	155	0.8	1	35	60	
SRP1038A-R27M	0.27	20	10	120	0.82	1	33	60	
SRP1038A-R33M	0.33	20	15	108	1	1.2	31	60	
SRP1038A-R36M	0.36	20	15	105	1.05	1.2	31	60	
SRP1038A-R39M	0.39	20	15	100	1.1	1.3	30	60	
SRP1038A-R45M	0.45	20	15	75	1.3	1.5	29	45	
SRP1038A-R56M	0.56	20	15	70	1.6	1.8	25	40	
SRP1038A-1R0M	1.0	20	20	47	3	3.3	18	36	Lead Frame
SRP1038A-1R2M	1.2	20	20	33	3.3	3.8	17	33	
SRP1038A-1R5M	1.5	20	20	30	4	4.6	16	33	
SRP1038A-2R2M	2.2	20	20	25	6.5	7	12	27	
SRP1038A-3R3M	3.3	20	20	18	10.8	11.8	11	20	
SRP1038A-4R7M	4.7	20	20	16	15	15.5	10	17	
SRP1038A-5R6M	5.6	20	20	15	17	19.3	9	14	
SRP1038A-6R8M	6.8	20	20	13	17.5	23.3	8.5	13.5	
SRP1038A-8R2M	8.2	20	20	12	20	24	8	12.5	
SRP1038A-100M	10	20	20	10	27	30	7.5	12	
SRP1038A-150M	15	20	20	9	40	45	6.25	10	
SRP1038A-220M	22	20	20	8	64	74	5	7	
SRP1038A-330M	33	20	20	6	92	112	3.5	5	
SRP1038A-470M	47	20	20	5	145	167	3	4.5	

Product Dimensions

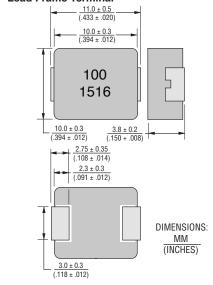
Non-Lead Frame Terminal





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

Lead Frame Terminal



General Specifications

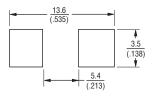
¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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

Materials

How to Order

Recommended Layout



Electrical Schematic

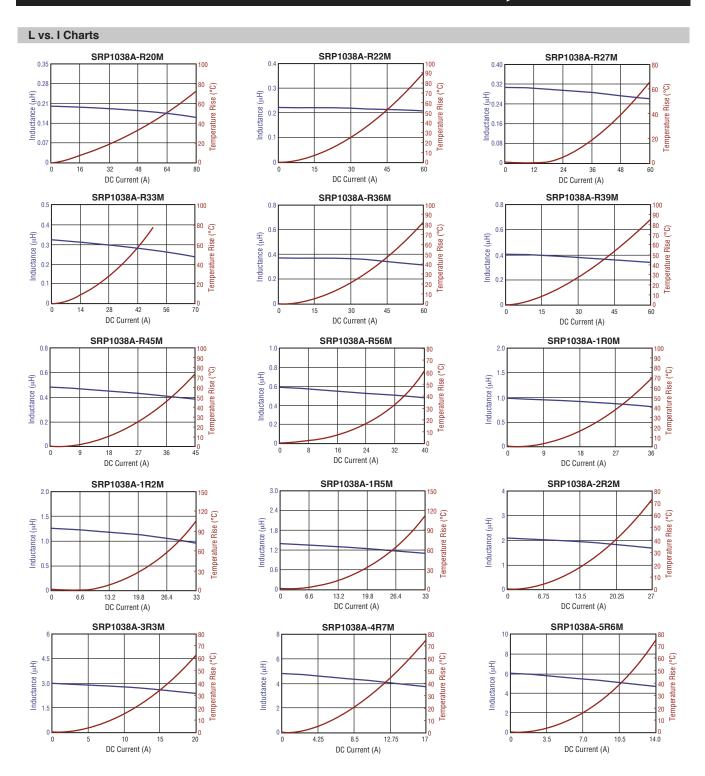


Please consult *Bourns® Model SRP-A Series Visual Inspection Guide* for detailed construction, processing and testing information.

- * RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
- ** 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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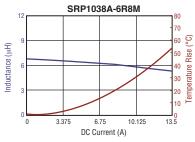
SRP1038A Series - Shielded Power Inductors

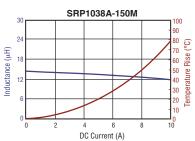


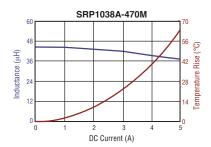
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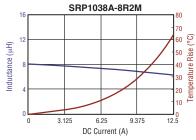
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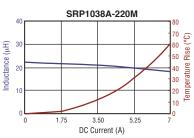
L vs. I Charts (Continued)

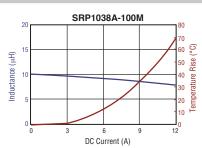


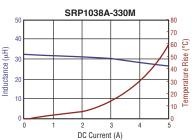












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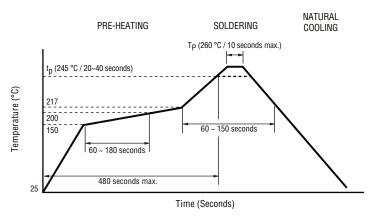
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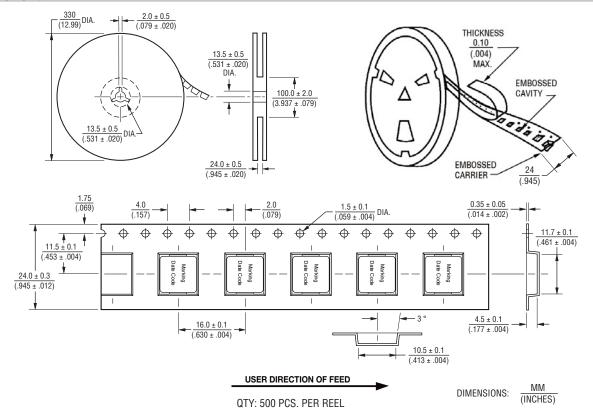
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Soldering Profile



REFLOW TIMES: 3 MAX.

Packaging Specifications



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