

Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Inductance range: 0.10 to 47 µH
- RoHS compliant* and halogen free**

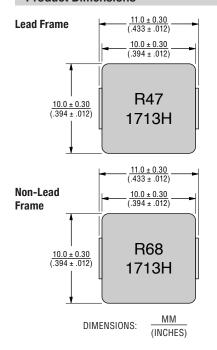


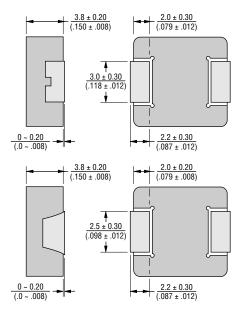
SRP1038C Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		Q (Min.) @100	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A)	Isat (A)	Terminal Type
	L (μH)	Tol. (%)	kHz/ 1 V	Тур.	Тур.	Max.	Тур.	Тур.	туре
SRP1038C-R10Y	0.10	30	10	215	0.32	0.38	53.0	85.0	Non-Lead Frame
SRP1038C-R15M	0.15	20	10	150	0.50	0.60	45.0	80.0	
SRP1038C-R20M	0.20	20	10	142	0.80	1.00	40.0	75.0	
SRP1038C-R22M	0.22	20	15	142	0.80	1.00	40.0	75.0	
SRP1038C-R30M	0.30	20	15	99	1.00	1.20	38.0	70.0	
SRP1038C-R33M	0.33	20	15	88	1.00	1.20	38.0	70.0	
SRP1038C-R36M	0.36	20	15	88	1.05	1.20	36.0	60.0	
SRP1038C-R47M	0.47	20	15	72	1.30	1.50	31.0	48.0	
SRP1038C-R68M	0.68	20	15	63	2.30	2.70	24.0	45.0	
SRP1038C-1R0M	1.00	20	15	45	3.50	4.00	20.0	39.0	Lead Frame
SRP1038C-1R5M	1.50	20	15	35	4.70	5.30	18.0	35.0	
SRP1038C-2R2M	2.20	20	15	27	6.50	7.20	15.0	27.0	
SRP1038C-3R3M	3.30	20	15	20	10.80	11.80	14.0	22.0	
SRP1038C-4R7M	4.70	20	15	15	14.50	15.50	13.0	20.0	
SRP1038C-5R6M	5.60	20	15	13	18.00	19.30	12.0	16.0	
SRP1038C-6R8M	6.80	20	15	12	19.00	23.30	10.0	15.0	
SRP1038C-8R2M	8.20	20	15	11	20.00	22.50	9.0	13.5	
SRP1038C-100M	10.0	20	15	10	29.00	32.00	8.5	12.5	
SRP1038C-150M	15.0	20	20	9	40.00	45.00	6.3	10.0	
SRP1038C-220M	22.0	20	20	8	62.00	74.00	5.2	7.5	
SRP1038C-270M	27.0	20	20	6.5	80.00	96.00	4.5	6.5	
SRP1038C-330M	33.0	20	20	6.5	94.00	112.00	4.0	6.0	
SRP1038C-470M	47.0	20	20	6	145.00	167.00	3.2	5.0	

Product Dimensions





General Specifications

Operating Temperature

......40 °C to +125 °C (Temperature rise included)

Storage Temperature (Component)
-40 °C to +125 °C

Rated Current

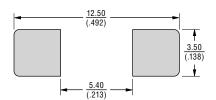
1 Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Electrical Schematic



Recommended Layout





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

 * RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

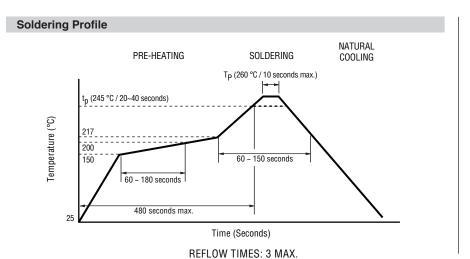
**Bourns considers a product to be "halogen free" if
(a) the Bromine (Br) content is 900 ppm or less;
(b) the Chlorine (Cl) content is 900 ppm or less; and
(c) the total Bromine (Br) and Chlorine (Cl) content
is 1500 ppm or less.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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SRP1038C Series - Shielded Power Inductors

BOURNS®



How to Order

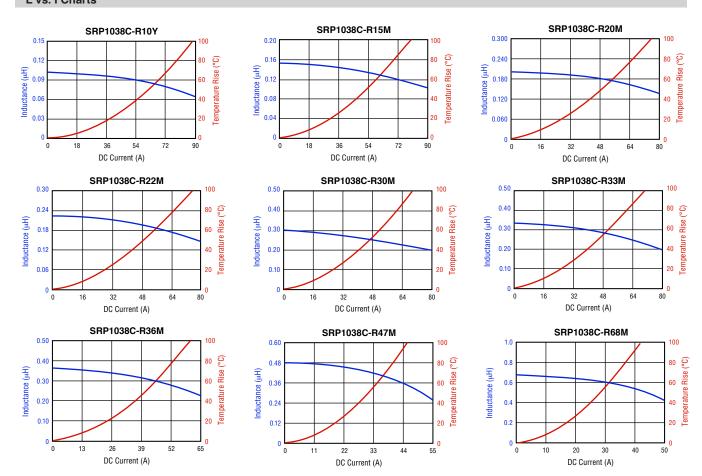
SRP1038C - 100M

Model _______

Value Code (see table) ______

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

L vs. I Charts

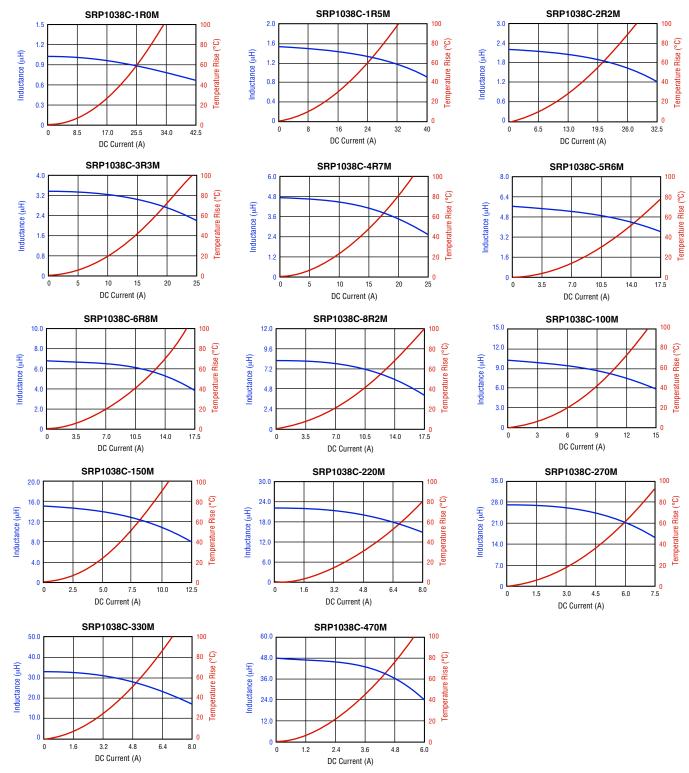


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L vs. I Charts (Continued)



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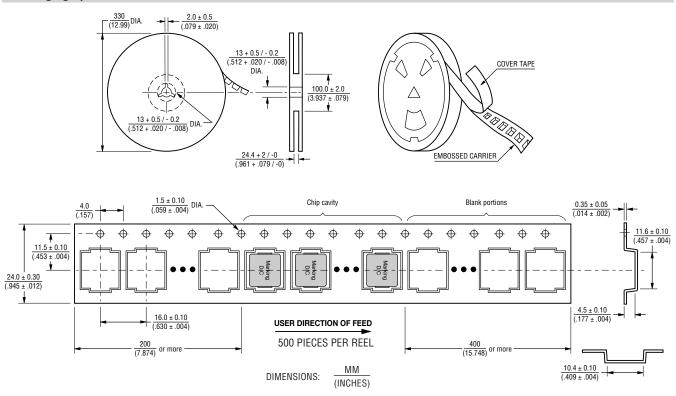
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Packaging Specifications



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

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