

Features

- Shielded construction
- Inductance range: 1.5 to 330 µH
- Heating current up to 7.2 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRU1038A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Def)	Test Freq.	SRF (MHz)	DCR (mΩ)	I rms	I sat
	L (µH)	Tol. (%)	(Ref.)	(MHz)	Тур.	Max.	(A)	(A)
SRU1038A-1R5Y	1.5	±30	14	7.96	65	7.5	7.2	7.0
SRU1038A-2R2Y	2.2	±30	12	7.96	55	10.5	6.8	6.5
SRU1038A-3R5Y	3.5	±30	14	7.96	35	15	5.5	5.5
SRU1038A-5R0Y	5.0	±30	12	7.96	30	22	4.6	4.8
SRU1038A-6R2Y	6.2	±30	12	7.96	25	24	4.0	4.2
SRU1038A-100Y	10	±30	24	2.52	20	35	3.8	3.6
SRU1038A-150Y	15	±30	24	2.52	16	50	2.8	2.7
SRU1038A-220Y	22	±30	20	2.52	12	75	2.2	2.3
SRU1038A-330Y	33	±30	22	2.52	10	112	1.8	1.8
SRU1038A-470Y	47	±30	22	2.52	8	160	1.65	1.6
SRU1038A-680Y	68	±30	24	2.52	7	216	1.1	1.3
SRU1038A-101Y	100	±30	24	0.796	6	300	1.0	1.1
SRU1038A-151Y	150	±30	20	0.796	5	476	0.9	0.8
SRU1038A-221Y	220	±30	22	0.796	4	740	0.65	0.65
SRU1038A-331Y	330	±30	20	0.796	3	1000	0.55	0.52

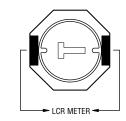
How to Order



Model -Value Code (see table) -

Electrical Schematic

Inductor Connection



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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 (CI) content is 1500 ppm or less. 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.

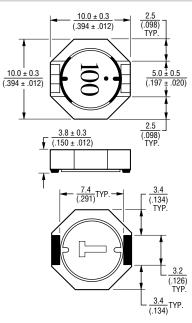
General Specifications

Operating Temperature-40 °C to +125 °C (Temperature rise included) Storage Temperature-40 °C to +125 °C **Temperature Rise**

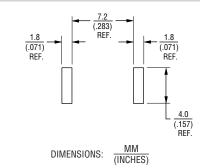
Materials

Core	Ferrite
Wire	Enameled copper
Terminal Finish	Ag/Ni/Sn
Packaging	800 pcs. per reel

Product Dimensions

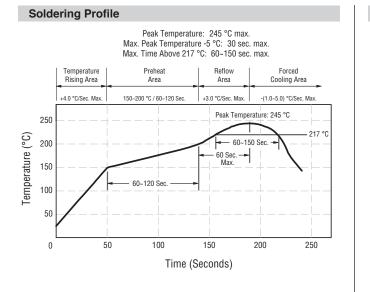


Recommended Layout



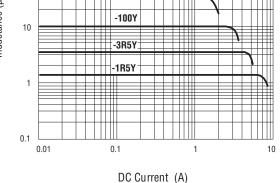
SRU1038A Series - Shielded Power Inductors

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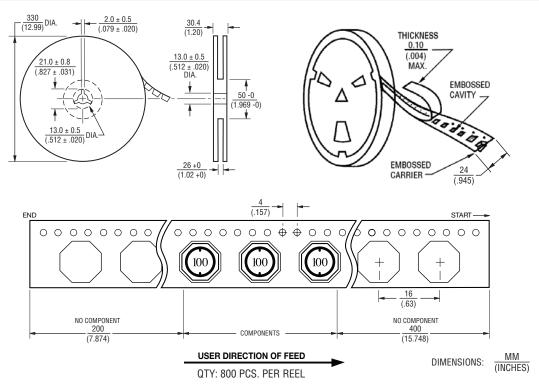


1000 100 100 100 -101Y -330Y -100Y 10 -385Y

Inductance vs. DC Current Plot



Packaging Specifications



REV. 09/20

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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