

Features

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

SRU1038A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

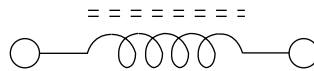
Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (m Ω) Max.	I rms (A)	I sat (A)
	L (μ H)	Tol. (%)						
SRU1038A-1R5Y	1.5	± 30	14	7.96	65	7.5	7.2	7.0
SRU1038A-2R2Y	2.2	± 30	12	7.96	55	10.5	6.8	6.5
SRU1038A-3R5Y	3.5	± 30	14	7.96	35	15	5.5	5.5
SRU1038A-5R0Y	5.0	± 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

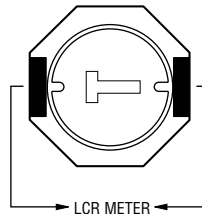
SRU1038A - 100Y

Model _____
Value Code (see table) _____

Electrical Schematic



Inductor Connection



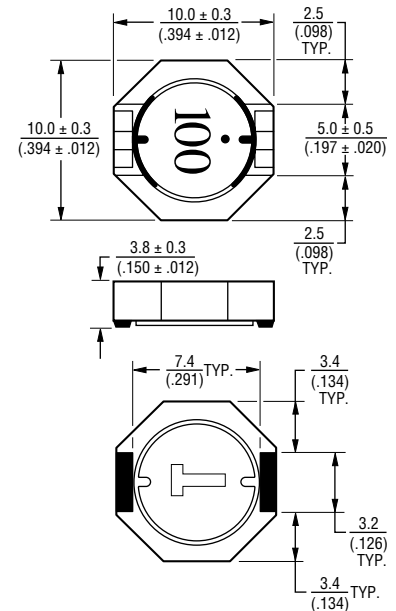
General Specifications

Operating Temperature -40 °C to +125 °C
(Temperature rise included)
Storage Temperature -40 °C to +125 °C
Temperature Rise 40 °C typ. at rated I rms
Inductance Drop 35 % typ. at I sat

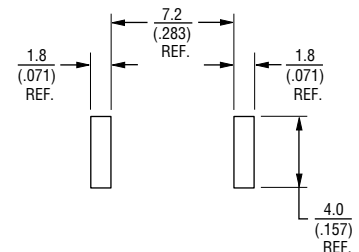
Materials

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

Product Dimensions



Recommended Layout



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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

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

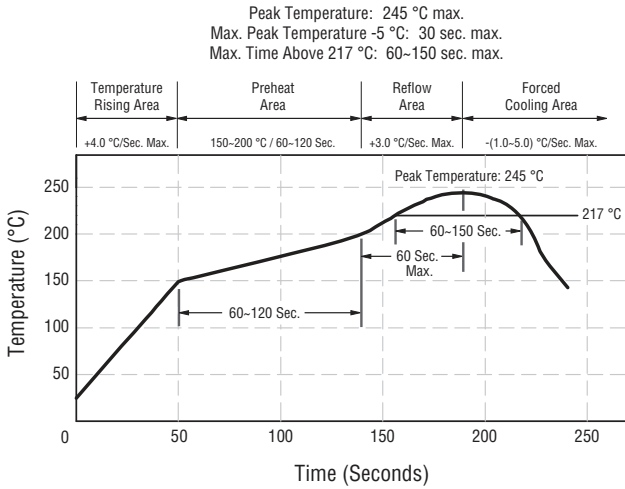
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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.

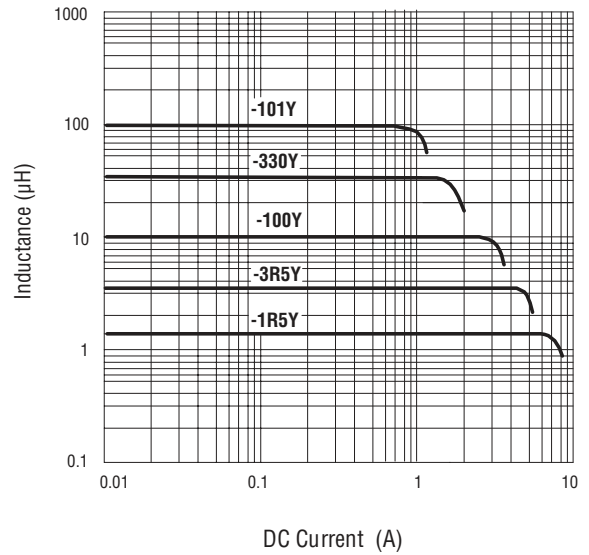
SRU1038A Series - Shielded Power Inductors



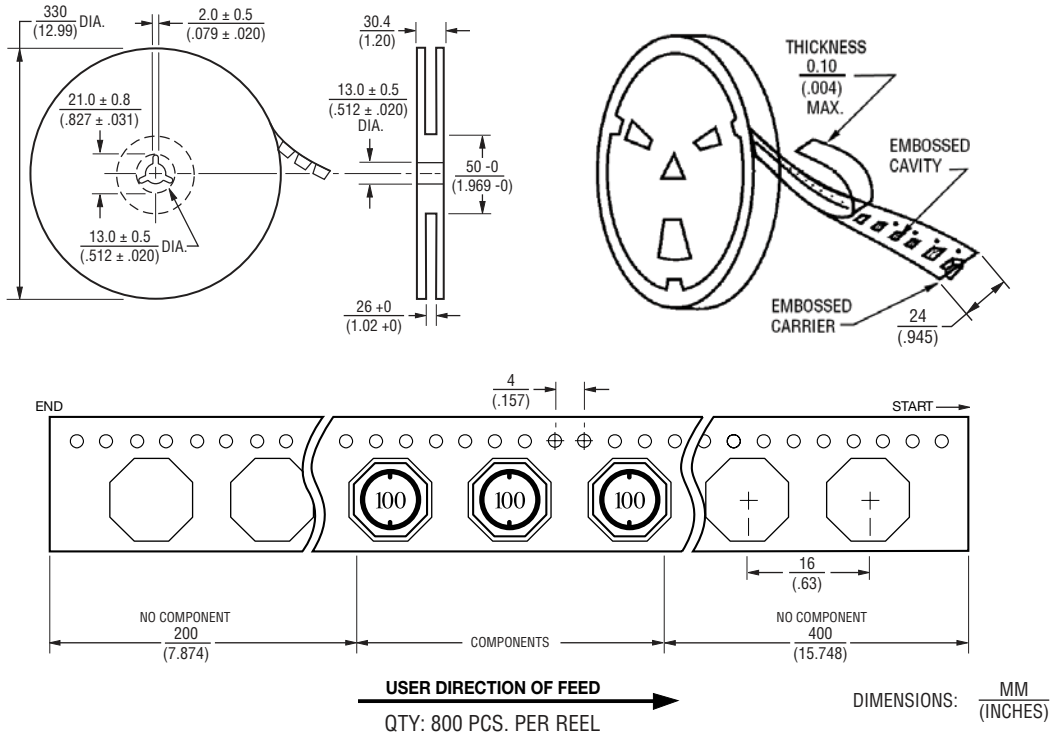
Soldering Profile



Inductance vs. DC Current Plot



Packaging Specifications



REV. 09/20

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