



Features

- Shielded construction
- Inductance range: 1.5 to 330 μ H
- Heating current up to 7.2 A
- AEC-Q200 qualified
- 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	\pm 30	14	7.96	65	7.5	7.2	7.0
SRU1038A-2R2Y	2.2	\pm 30	12	7.96	55	10.5	6.8	6.5
SRU1038A-3R5Y	3.5	\pm 30	14	7.96	35	15	5.5	5.5
SRU1038A-5R0Y	5.0	\pm 30	12	7.96	30	22	4.6	4.8
SRU1038A-6R2Y	6.2	\pm 30	12	7.96	25	24	4.0	4.2
SRU1038A-100Y	10	\pm 30	24	2.52	20	35	3.8	3.6
SRU1038A-150Y	15	\pm 30	24	2.52	16	50	2.8	2.7
SRU1038A-220Y	22	\pm 30	20	2.52	12	75	2.2	2.3
SRU1038A-330Y	33	\pm 30	22	2.52	10	112	1.8	1.8
SRU1038A-470Y	47	\pm 30	22	2.52	8	160	1.65	1.6
SRU1038A-680Y	68	\pm 30	24	2.52	7	216	1.1	1.3
SRU1038A-101Y	100	\pm 30	24	0.796	6	300	1.0	1.1
SRU1038A-151Y	150	\pm 30	20	0.796	5	476	0.9	0.8
SRU1038A-221Y	220	\pm 30	22	0.796	4	740	0.65	0.65
SRU1038A-331Y	330	\pm 30	20	0.796	3	1000	0.55	0.52

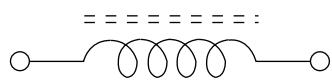
How to Order

SRU1038A - 100Y

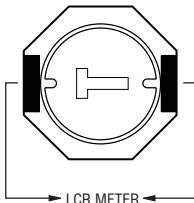
Model

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
Resistance to Soldering Heat

.....+245 °C for 10 sec.

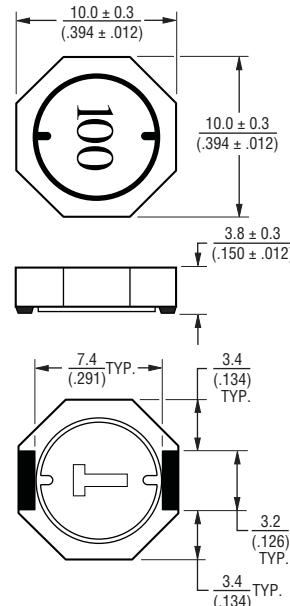
Temperature Rise

.....40 °C typ. at rated I rms
Inductance Drop35 % typ. at I sat

Materials

CoreFerrite
WireEnamelled copper
Terminal FinishAg/Ni/Sn
Packaging800 pcs. per reel

Product Dimensions



BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

Europe: Tel: +41-41 768 5555 • Fax: +41-41 768 5510

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

www.bourns.com



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

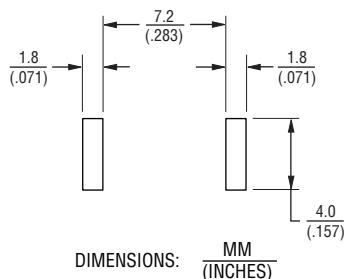
* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

**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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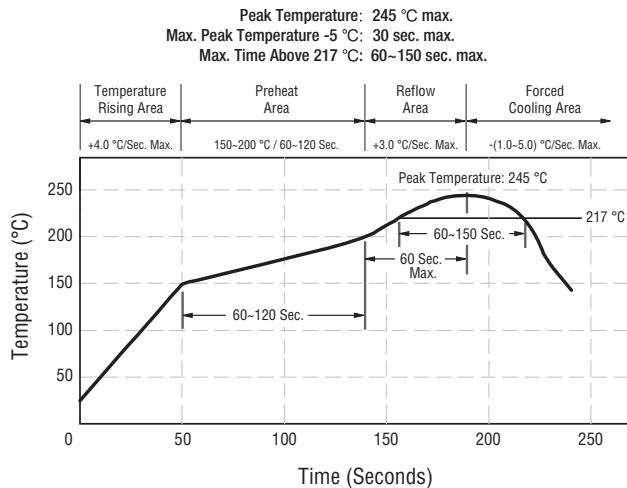
Recommended Layout



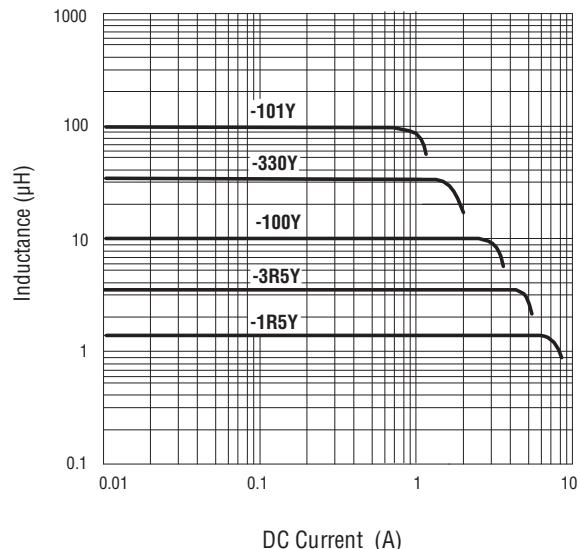
SRU1038A Series - Shielded Power Inductors

BOURNS®

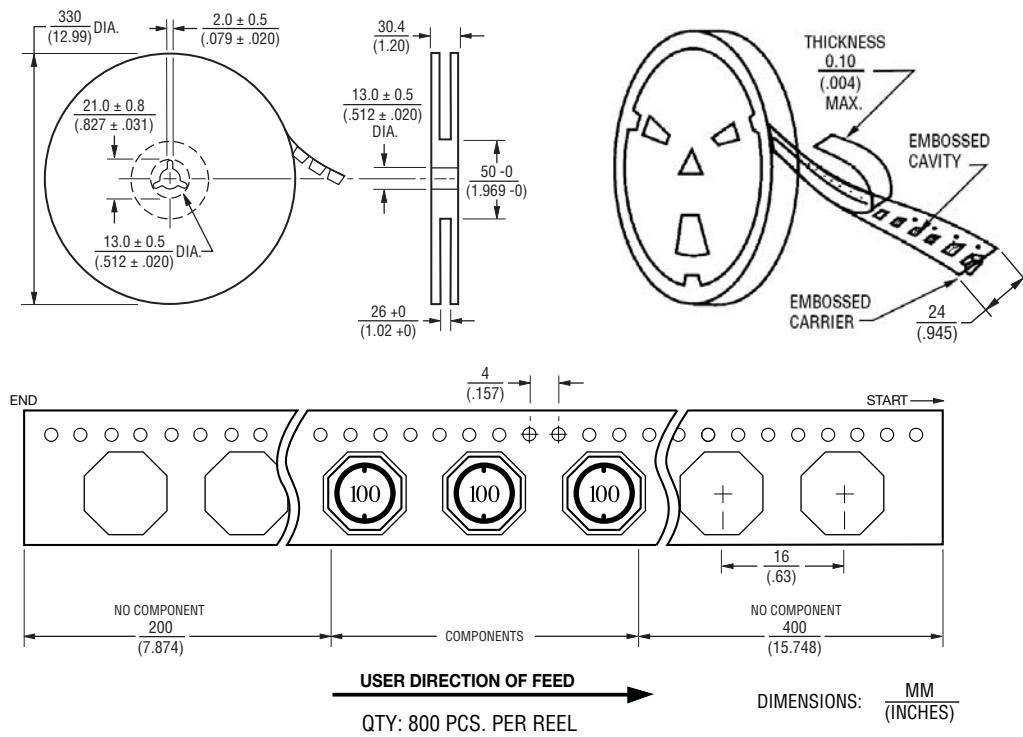
Soldering Profile



Inductance vs. DC Current Plot



Packaging Specifications



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