



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**

Applications

- Automotive systems:
 - Driver assistant
 - Information
 - Entertainment
 - Lighting
- DC/DC converters
- Power supplies

SRU1038A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

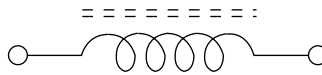
Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (m Ω) Max.	I rms (A)	I sat (A)
	L (μ H)	Tol. (%)						
SRU1038A-1R5Y	1.5	± 30	14	7.96	65	7.5	7.2	7.0
SRU1038A-2R2Y	2.2	± 30	12	7.96	55	10.5	6.8	6.5
SRU1038A-3R5Y	3.5	± 30	14	7.96	35	15	5.5	5.5
SRU1038A-5R0Y	5.0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

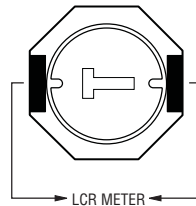
SRU1038A - 100Y

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

Resistance to Soldering Heat

.....+245 °C for 10 sec.

Temperature Rise

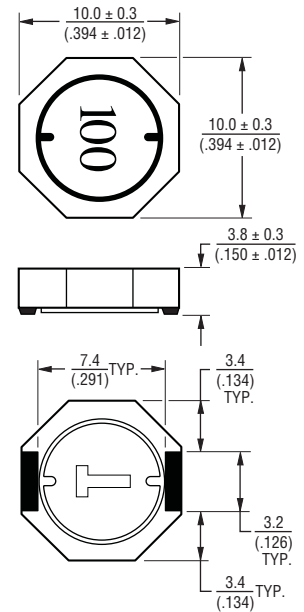
.....40 °C typ. at rated I rms

Inductance Drop 35 % typ. at I sat

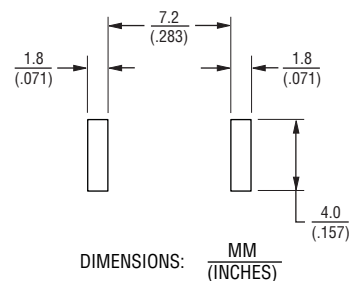
Materials

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

Product Dimensions



Recommended Layout



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

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

** Bourns follows the prevailing definition of "halogen free" in the industry. 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.

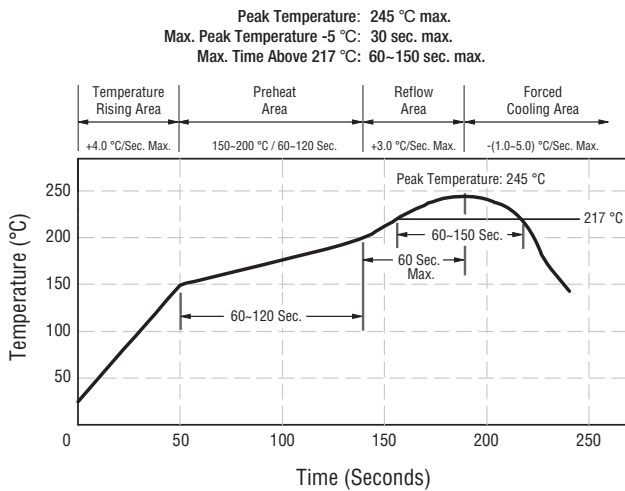
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

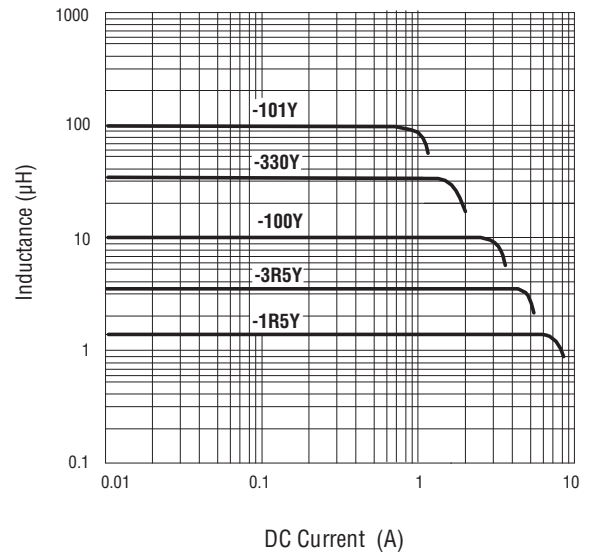
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Soldering Profile



Inductance vs. DC Current Plot



Packaging Specifications

