

Features

- Shielded construction
- Inductance range: 1.5 to 330 µH
- Heating current up to 7 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRU1048A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 1 V		Q	Test	SRF (MHz)	DCR (mc)	DCR (mc)	l rms	I sat
	L (μΗ)	Tol. (%)	(Ref.)	Freq. (MHz)	Typ.	(mΩ) Typ.	(mΩ) Max.	(A)	(A)
SRU1048A-1R5Y	1.5	±30	14	7.96	70	4.3	5.8	7.0	7.2
SRU1048A-2R2Y	2.2	±30	14	7.96	55	5.3	7.2	6.5	6.3
SRU1048A-3R0Y	3.0	±30	14	7.96	40	7.2	10.0	6.2	6.0
SRU1048A-4R7Y	4.7	±30	12	7.96	30	9.5	12.5	5.5	4.75
SRU1048A-6R8Y	6.8	±30	10	7.96	20	13.6	18.0	4.8	4.1
SRU1048A-8R2Y	8.2	±30	8	7.96	18	15.0	20.0	4.6	3.8
SRU1048A-100Y	10	±30	26	2.52	16	18.5	25.0	4.5	3.7
SRU1048A-150Y	15	±30	30	2.52	14	29.0	40.0	3.2	2.7
SRU1048A-220Y	22	±30	22	2.52	12	42.0	55.0	2.6	2.0
SRU1048A-330Y	33	±30	24	2.52	10	63.0	84.0	2.1	1.7
SRU1048A-470Y	47	±30	26	2.52	8	94.0	120.0	1.7	1.5
SRU1048A-560Y	56	±30	26	2.52	7	110.0	145.0	1.6	1.4
SRU1048A-680Y	68	±30	24	2.52	6	127.0	170.0	1.4	1.25
SRU1048A-820Y	82	±30	24	2.52	5.5	149.0	200.0	1.3	1.1
SRU1048A-101Y	100	±30	26	0.796	5	160.0	220.0	1.2	1.0
SRU1048A-151Y	150	±30	24	0.796	4.5	235.0	305.0	1.0	0.8
SRU1048A-221Y	220	±30	20	0.796	4	350.0	455.0	0.8	0.7
SRU1048A-331Y	330	±30	18	0.796	3	490.0	640.0	0.65	0.52

How to Order

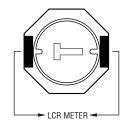
SRU1048A - 100Y

Model — Value Code (see table) —

Electrical Schematic



Inductor Connection



BOURNS®

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

Europe: Tel: +41-41 885 877 • 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 - $\underline{www.P65Warnings.ca.gov}$

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.

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.

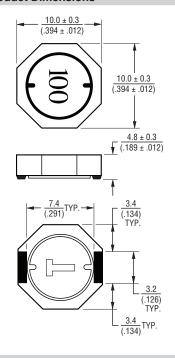
Temperature Rise

......30 °C typ. at rated I rms Inductance Drop35 % typ. at I sat

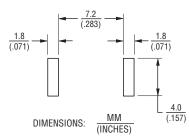
Materials

Core	Ferrite
Wire	Enameled copper
Terminal Finish	Ag/Ni/Sr
Packaging	600 pcs. per ree

Product Dimensions

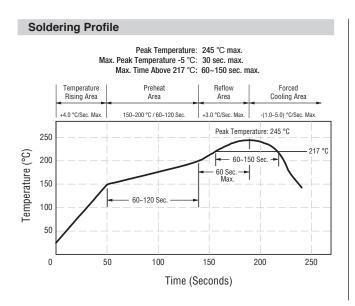


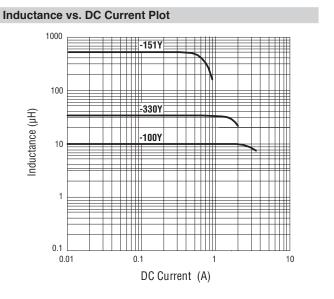
Recommended Layout



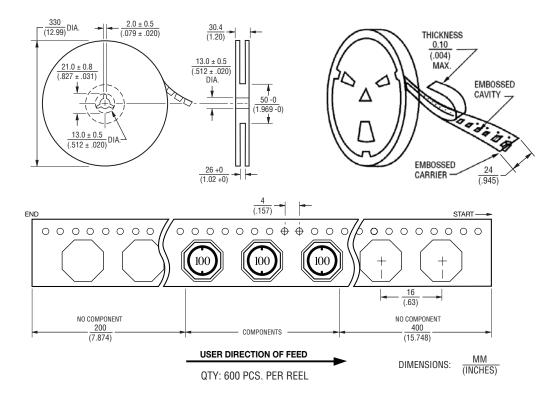
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Packaging Specifications



REV. 10/20

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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