



**THE DATASHEET OF
SRU1048A-331Y**





Features

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

SRU1048A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

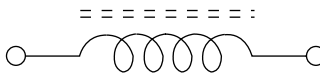
Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (m Ω) Typ.	DCR (m Ω) Max.	I rms (A)	I sat (A)
	L (μ H)	Tol. (%)							
SRU1048A-1R5Y	1.5	\pm 30	14	7.96	70	4.3	5.8	7.0	7.2
SRU1048A-2R2Y	2.2	\pm 30	14	7.96	55	5.3	7.2	6.5	6.3
SRU1048A-3R0Y	3.0	\pm 30	14	7.96	40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

How to Order

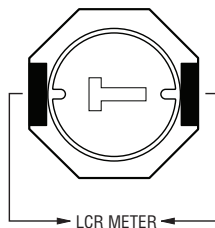
SRU1048A - 100Y

Model _____
Value Code (see table) _____

Electrical Schematic



Inductor Connection



BOURNS®

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www.bourns.com



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.

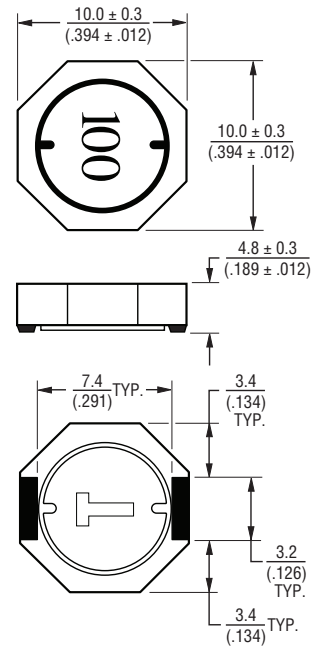
General Specifications

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 Rise30 °C typ. at rated I rms
Inductance Drop35 % typ. at I sat

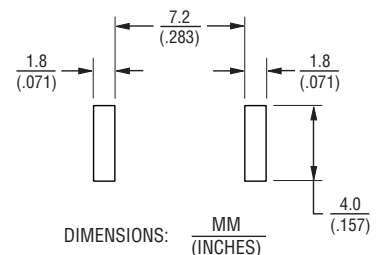
Materials

Core.....Ferrite
Wire.....Enameled copper
Terminal Finish.....Ag/Ni/Sn
Packaging.....600 pcs. per reel

Product Dimensions



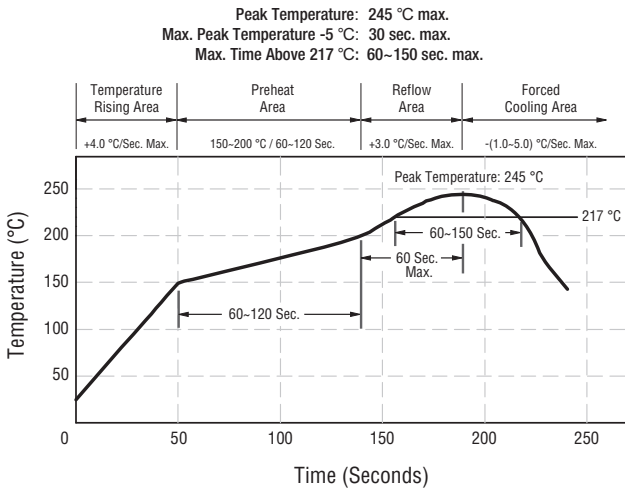
Recommended Layout



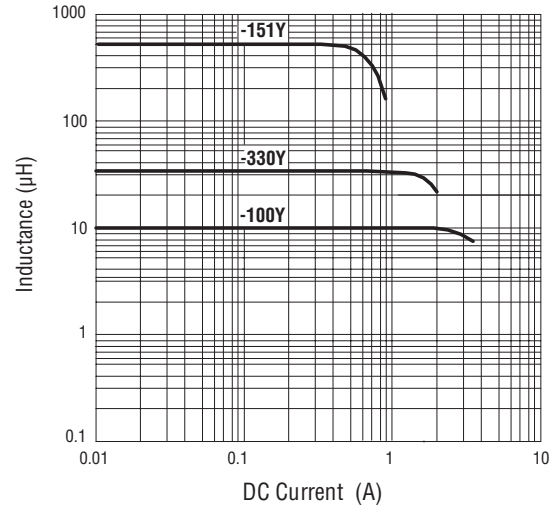
SRU1048A Series - Shielded Power Inductors



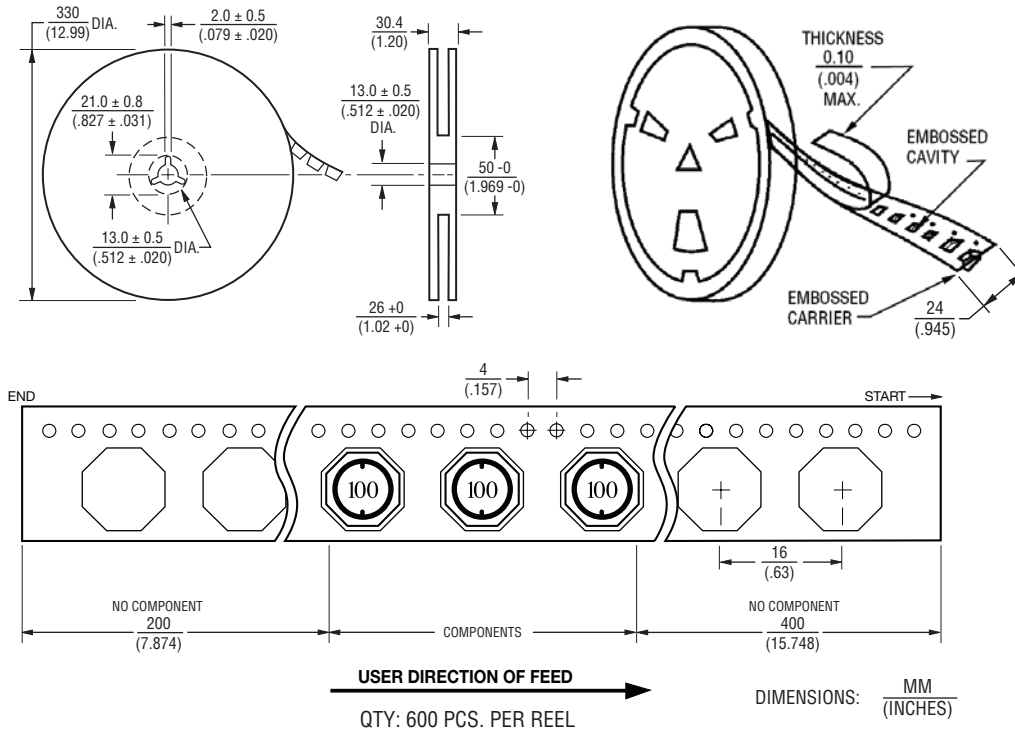
Soldering Profile



Inductance vs. DC Current Plot



Packaging Specifications



REV. 10/20

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