



Features

- Shielded construction
- Inductance range: 1.5 to 330 μ H
- Heating current up to 7 A
- AEC-Q200 qualified
- 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) Max.	I rms (A)	I sat (A)
	L (μ H)	Tol. (%)						
SRU1048A-1R5Y	1.5	± 30	14	7.96	70	5.8	7.0	7.2
SRU1048A-2R2Y	2.2	± 30	14	7.96	55	7.2	6.5	6.3
SRU1048A-3R0Y	3.0	± 30	14	7.96	40	10	6.2	6.0
SRU1048A-4R7Y	4.7	± 30	12	7.96	30	12.5	5.5	4.75
SRU1048A-6R8Y	6.8	± 30	10	7.96	20	18	4.8	4.1
SRU1048A-8R2Y	8.2	± 30	8	7.96	18	20	4.6	3.8
SRU1048A-100Y	10	± 30	26	2.52	16	25	4.5	3.7
SRU1048A-150Y	15	± 30	30	2.52	14	40	3.2	2.7
SRU1048A-220Y	22	± 30	22	2.52	12	55	2.6	2.0
SRU1048A-330Y	33	± 30	24	2.52	10	84	2.1	1.7
SRU1048A-470Y	47	± 30	26	2.52	8	120	1.7	1.5
SRU1048A-560Y	56	± 30	26	2.52	7	145	1.6	1.4
SRU1048A-680Y	68	± 30	24	2.52	6	170	1.4	1.25
SRU1048A-820Y	82	± 30	24	2.52	5.5	200	1.3	1.1
SRU1048A-101Y	100	± 30	26	0.796	5	220	1.2	1.0
SRU1048A-151Y	150	± 30	24	0.796	4.5	305	1.0	0.8
SRU1048A-221Y	220	± 30	20	0.796	4	455	0.8	0.7
SRU1048A-331Y	330	± 30	18	0.796	3	640	0.65	0.52

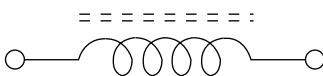
How to Order

SRU1048A - 100Y

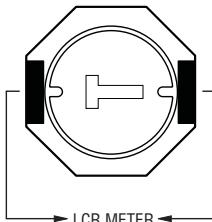
Model

Value Code (see table)

Electrical Schematic



Inductor Connection



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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. 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.

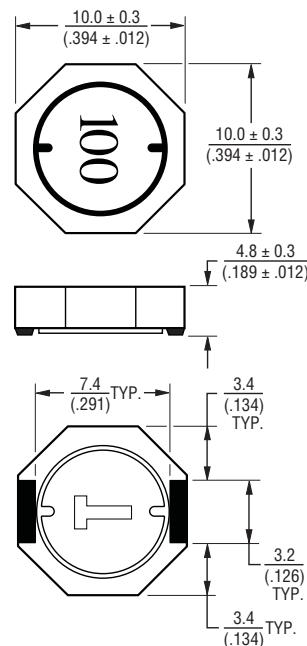
Temperature Rise

..... 30 °C typ. at rated I rms
Inductance Drop 35 % typ. at I sat

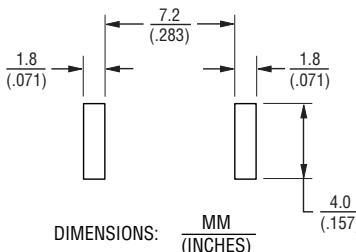
Materials

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

Product Dimensions



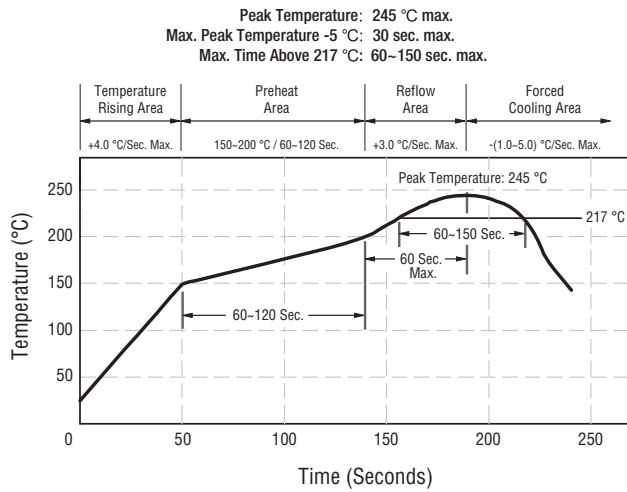
Recommended Layout



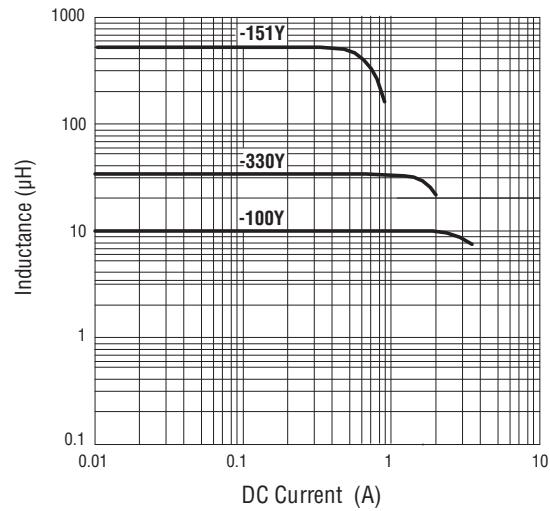
SRU1048A Series - Shielded Power Inductors

BOURNS®

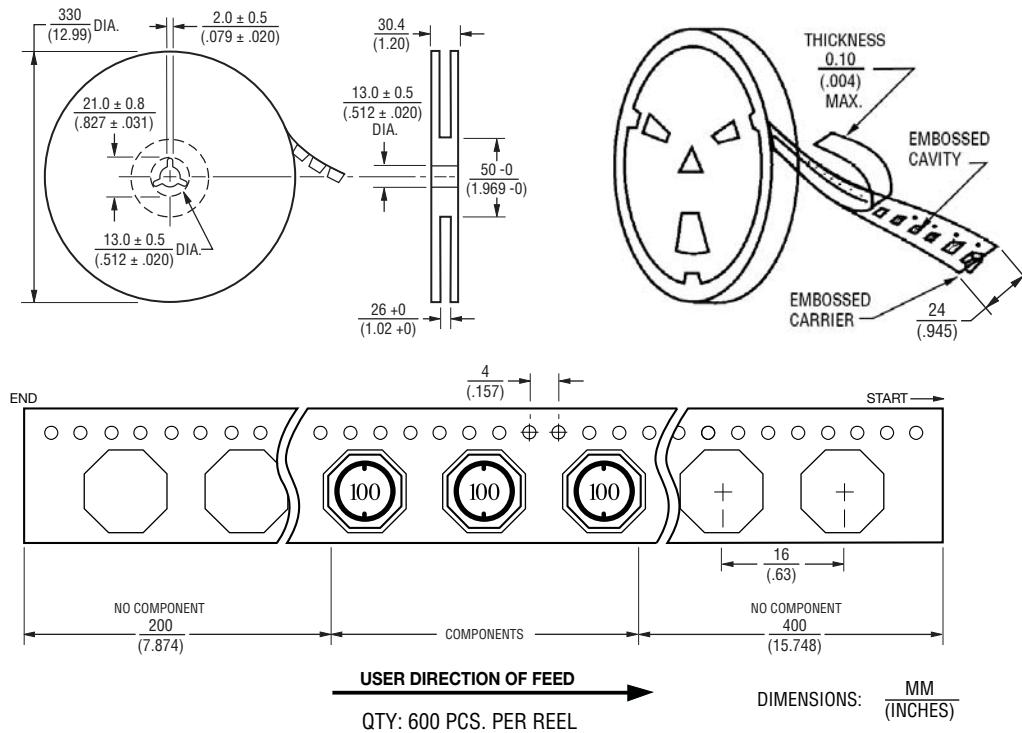
Soldering Profile



Inductance vs. DC Current Plot



Packaging Specifications



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