



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

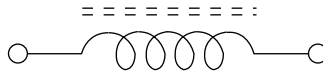
Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (m Ω) Max.	I rms (A)	I sat (A)
	L (μ H)	Tol. (%)						
SRU1048A-1R5Y	1.5	± 30	14	7.96	70	5.8	7.0	7.2
SRU1048A-2R2Y	2.2	± 30	14	7.96	55	7.2	6.5	6.3
SRU1048A-3R0Y	3.0	± 30	14	7.96	40	10	6.2	6.0
SRU1048A-4R7Y	4.7	± 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

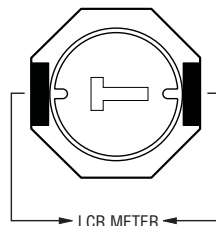
SRU1048A - 100Y

Model _____
Value Code (see table) _____

Electrical Schematic



Inductor Connection



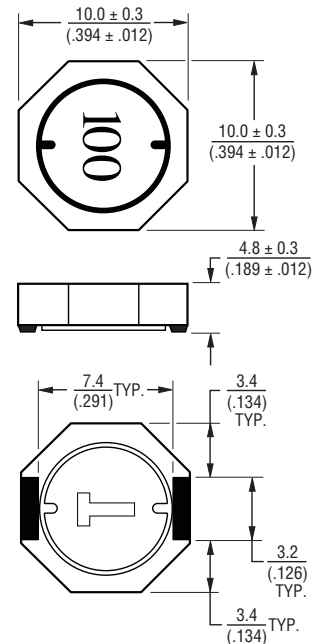
General Specifications

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

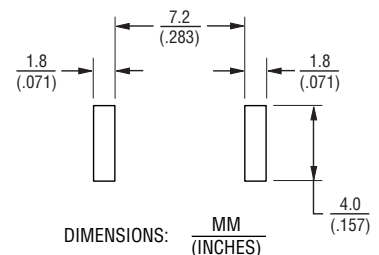
Materials

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

Product Dimensions



Recommended Layout



BOURNS®

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

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

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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.

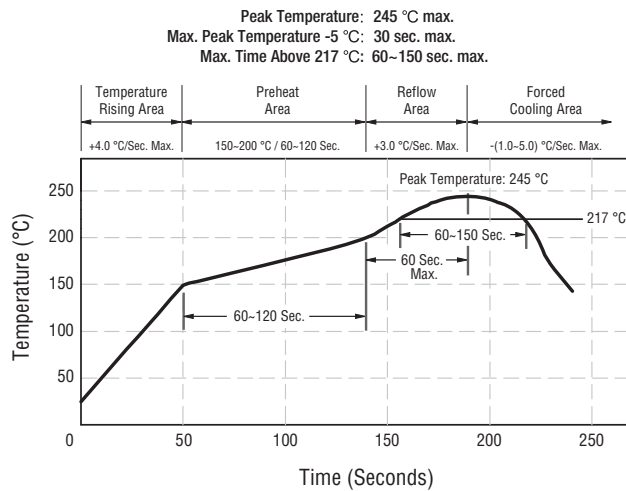
**Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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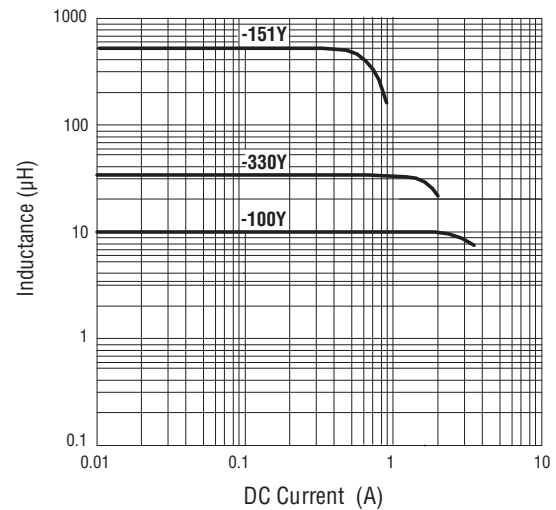
SRU1048A Series - Shielded Power Inductors

BOURNS®

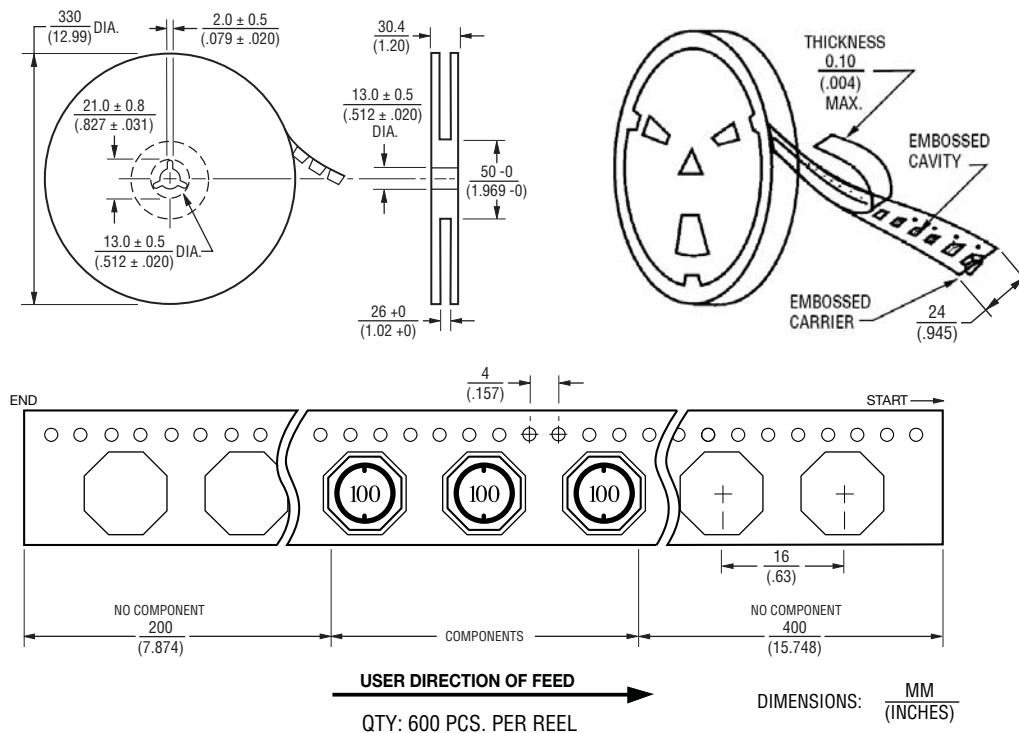
Soldering Profile



Inductance vs. DC Current Plot



Packaging Specifications



08/13

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