

Features

- Shielded construction
- Inductance range: 1 to 150 µH
- Heating current up to 7 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRU1028A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

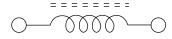
Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Def)	Test Freq.	SRF (MHz)	DCR (mΩ)	l rms	I sat
Part Number	L (μH)	Tol. (%)	(Ref.)	(MHz)	Тур.	Max.	(A)	(A)
SRU1028A-1R0Y	1.0	±30	14	7.96	100	6.5	7.00	8.00
SRU1028A-1R5Y	1.5	±30	12	7.96	80	10.0	6.50	6.50
SRU1028A-2R2Y	2.2	±30	12	7.96	65	15.0	5.30	4.80
SRU1028A-3R3Y	3.3	±30	14	7.96	55	20.0	4.60	4.30
SRU1028A-4R7Y	4.7	±30	12	7.96	40	23.0	4.50	3.80
SRU1028A-6R8Y	6.8	±30	12	7.96	30	33.0	3.50	3.00
SRU1028A-8R2Y	8.2	±30	12	7.96	28	37.0	3.30	2.70
SRU1028A-100Y	10	±30	20	2.52	25	53.0	2.80	2.40
SRU1028A-150Y	15	±30	26	2.52	22	90.0	2.00	2.00
SRU1028A-220Y	22	±30	26	2.52	16	135.0	1.60	1.40
SRU1028A-330Y	33	±30	24	2.52	12	180.0	1.25	1.20
SRU1028A-470Y	47	±30	20	2.52	11	230.0	1.30	1.10
SRU1028A-560Y	56	±30	22	2.52	10	270.0	1.10	1.00
SRU1028A-680Y	68	±30	20	2.52	9	300.0	1.00	0.90
SRU1028A-820Y	82	±30	20	2.52	8	420.0	0.90	0.85
SRU1028A-101Y	100	±30	20	0.796	7	470.0	0.85	0.80
SRU1028A-121Y	120	±30	18	0.796	6	560.0	0.70	0.70
SRU1028A-151Y	150	±30	18	0.796	5	680.0	0.65	0.65

How to Order

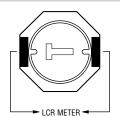
SRU1028A - 100Y

Model		
Value Code (see table).		

Electrical Schematic



Inductor Connection



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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

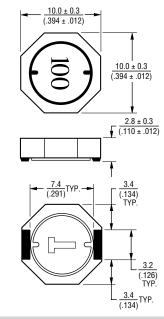
Temperature Rise

......40 °C typ. at rated I rms Inductance Drop35 % typ. at I sat

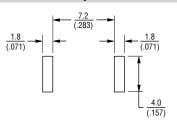
Materials

Core	Ferrite
Wire	Enameled copper
	Ag/Ni/Sn
Packaging	1000 pcs. per reel

Product Dimensions

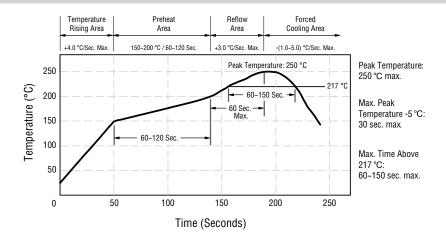


Recommended Layout

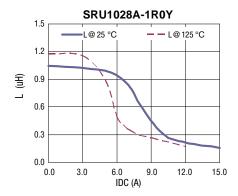


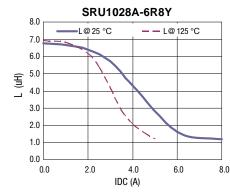
DIMENSIONS: $\frac{MM}{(INCHES)}$

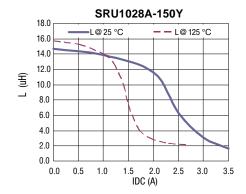
Soldering Profile

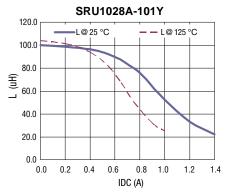


L vs. IDC





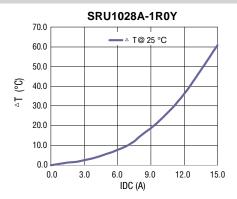


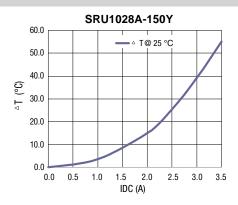


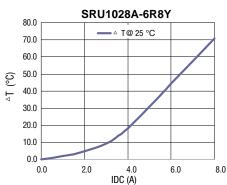
SRU1028A Series - Shielded Power Inductors

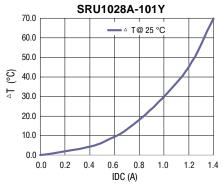
BOURNS

Temperature vs. IDC

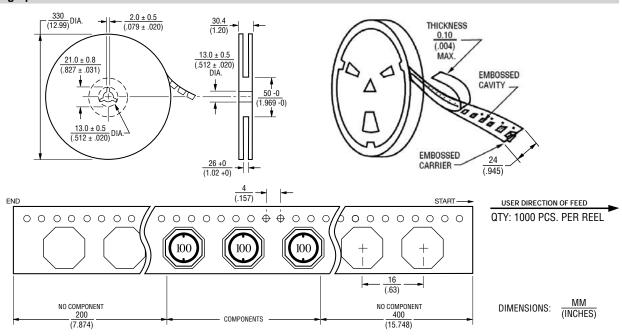








Packaging Specifications



REV. 11/19

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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