



Features

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

SRU1028A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

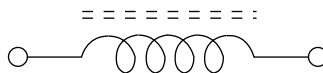
Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (m Ω) Max.	I rms (A)	I sat (A)
	L (μ H)	Tol. (%)						
SRU1028A-1R0Y	1.0	\pm 30	14	7.96	100	6.5	7.00	8.00
SRU1028A-1R5Y	1.5	\pm 30	12	7.96	80	10.0	6.50	6.50
SRU1028A-2R2Y	2.2	\pm 30	12	7.96	65	15.0	5.30	4.80
SRU1028A-3R3Y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

How to Order

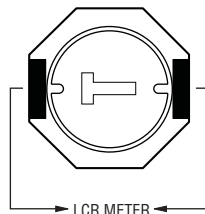
SRU1028A - 100Y

Model _____
Value Code (see table) _____

Electrical Schematic



Inductor Connection



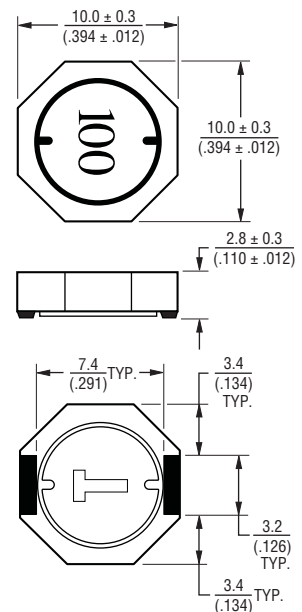
General Specifications

Operating Temperature -40 °C to +125 °C
(Temperature rise included)
Storage Temperature -40 °C to +125 °C
Resistance to Soldering Heat +250 °C for 10 sec.
Temperature Rise 40 °C typ. at rated I rms
Inductance Drop 35 % typ. at I sat

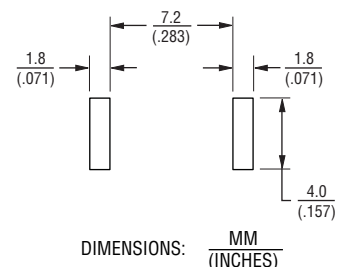
Materials

Core Ferrite
Wire Enameled copper
Terminal Finish Ag/Ni/Sn
Packaging 1000 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

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

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.

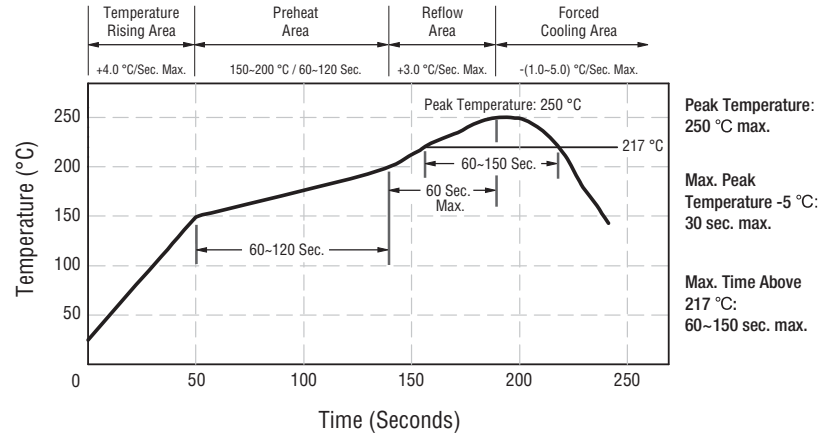
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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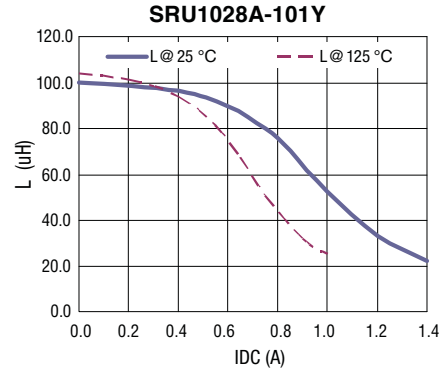
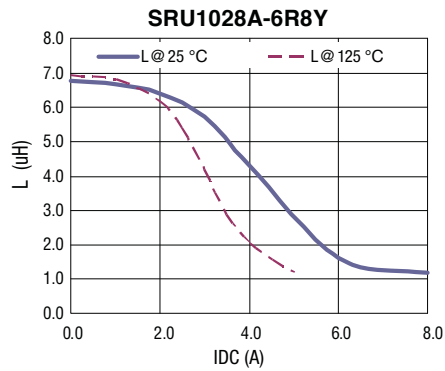
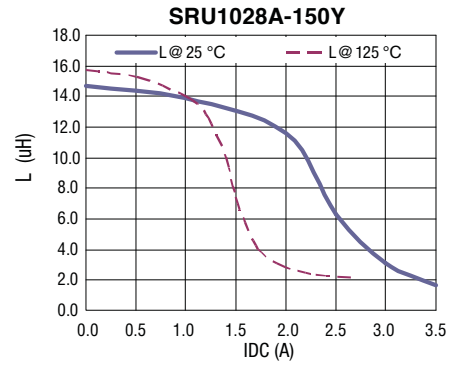
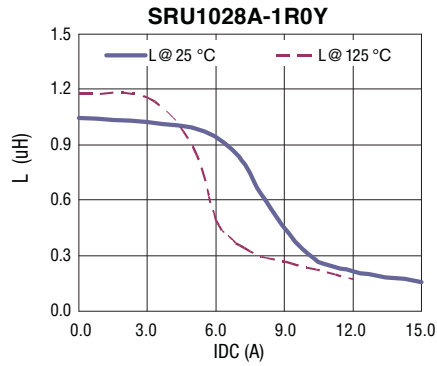
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BOURNS®

Soldering Profile



L vs. IDC

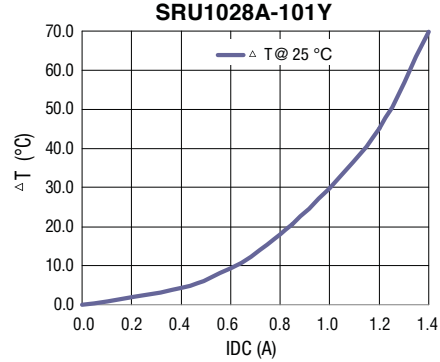
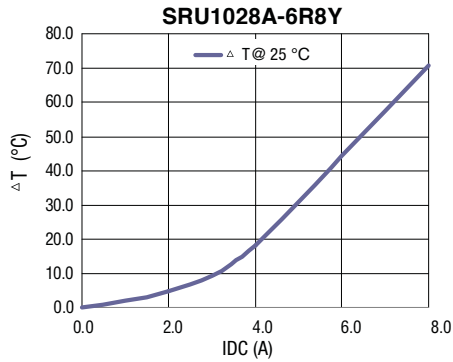
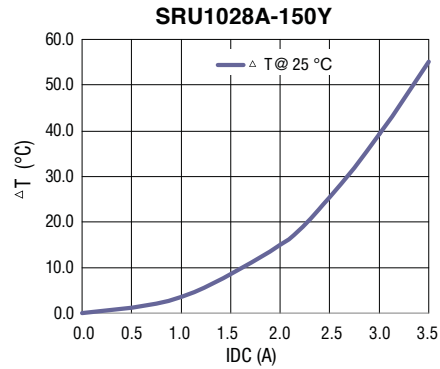
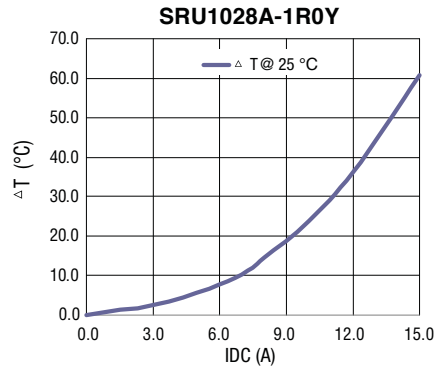


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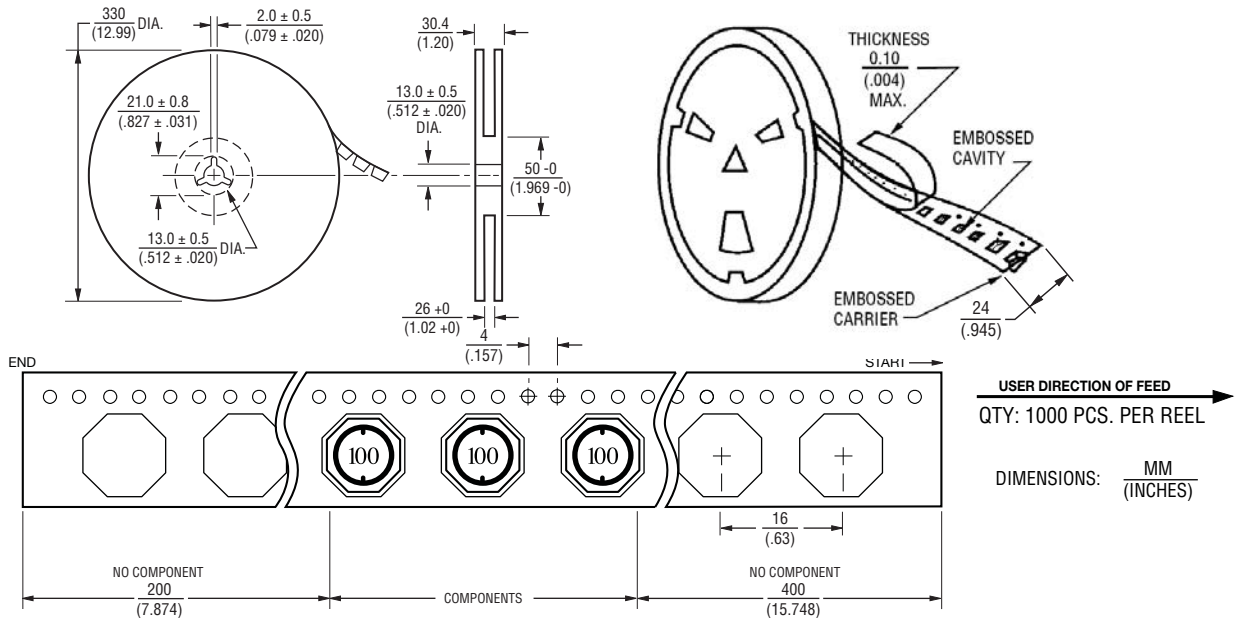
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Temperature vs. IDC



Packaging Specifications



REV. 09/13

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