



**THE DATASHEET OF  
SRU1028A-121Y**





## Features

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

## SRU1028A Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

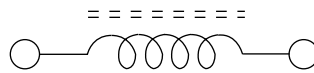
Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (m $\Omega$ ) Max.	I rms (A)	I sat (A)
	L ( $\mu$ H)	Tol. (%)						
SRU1028A-1R0Y	1.0	$\pm$ 30	14	7.96	100	6.5	7.00	8.00
SRU1028A-1R5Y	1.5	$\pm$ 30	12	7.96	80	10.0	6.50	6.50
SRU1028A-2R2Y	2.2	$\pm$ 30	12	7.96	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

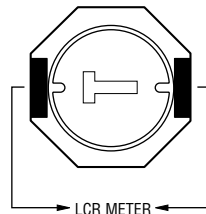
**SRU1028A - 100Y**

Model \_\_\_\_\_  
Value Code (see table) \_\_\_\_\_

### Electrical Schematic



### Inductor Connection



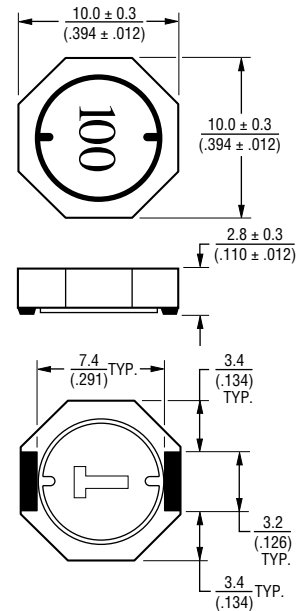
### General Specifications

Operating Temperature .....-40 °C to +125 °C  
(Temperature rise included)  
Storage Temperature .....-40 °C to +125 °C  
Temperature Rise .....40 °C typ. at rated I rms  
Inductance Drop ..... 35 % typ. at I sat

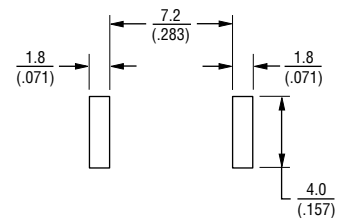
### Materials

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

### Product Dimensions



### Recommended Layout



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

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**WARNING Cancer and Reproductive Harm** [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

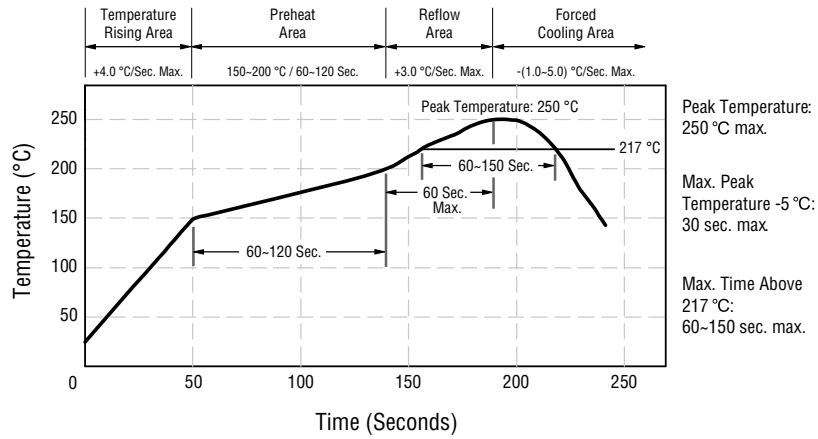
\*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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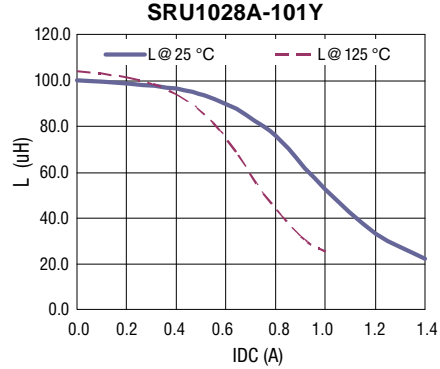
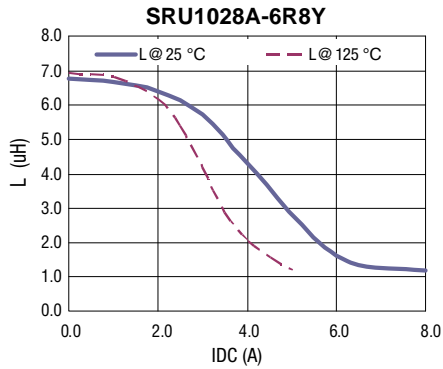
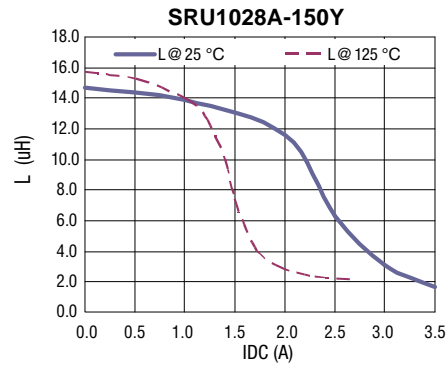
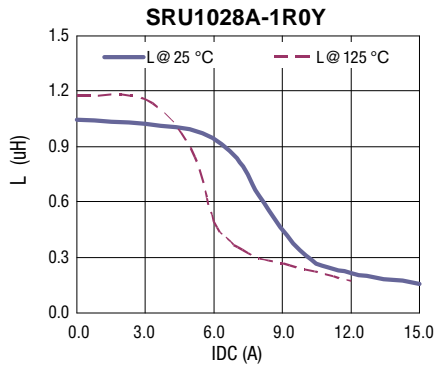
# SRU1028A Series - Shielded Power Inductors



## Soldering Profile



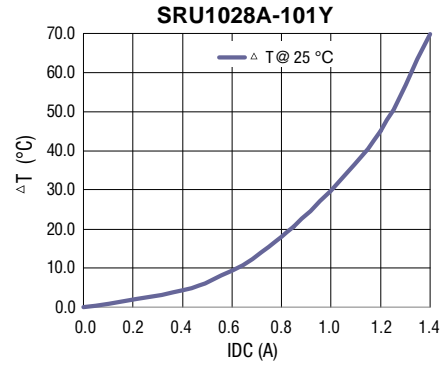
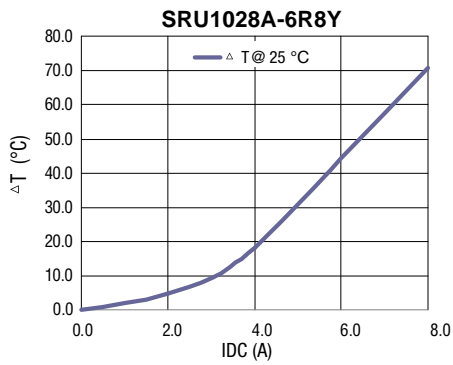
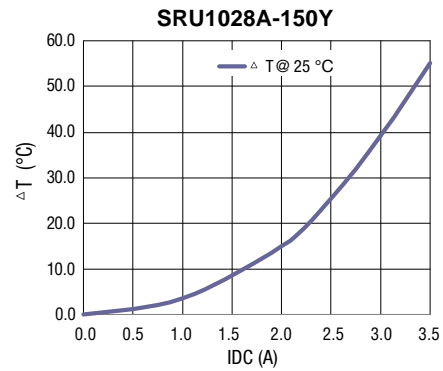
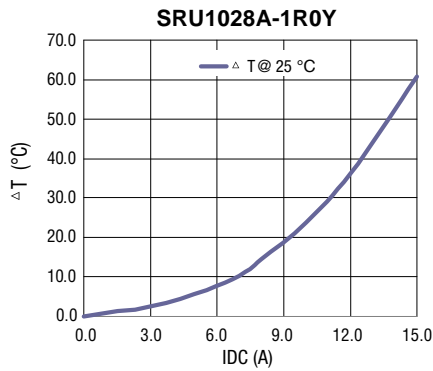
## L vs. IDC



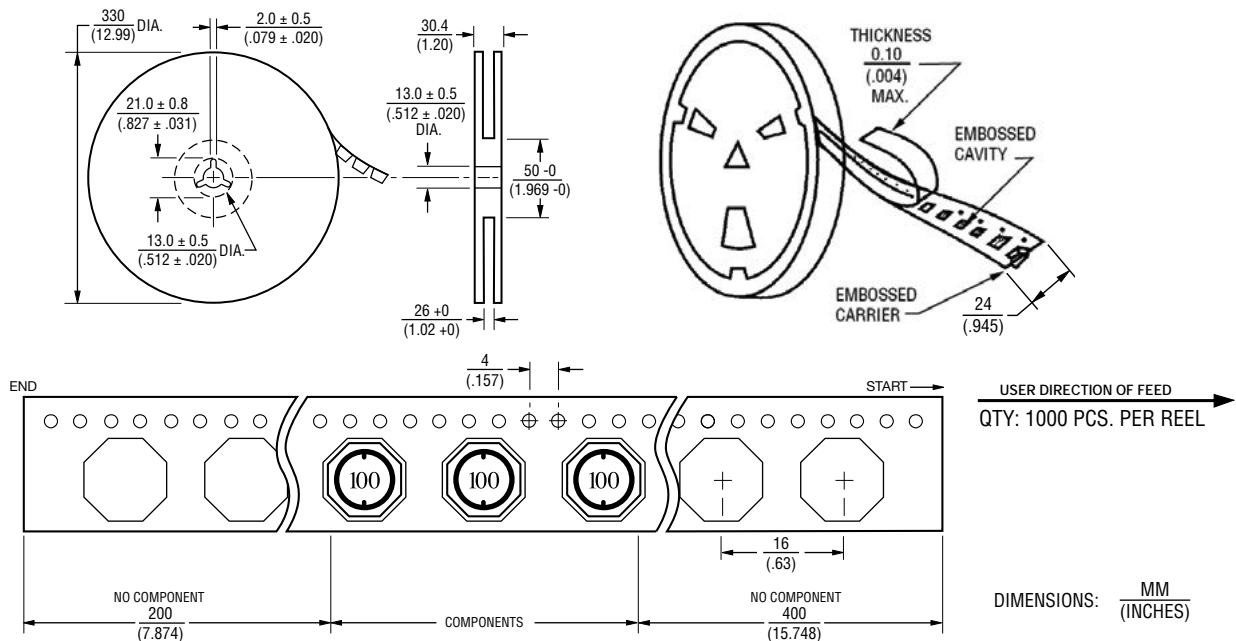
# SRU1028A Series - Shielded Power Inductors



## Temperature vs. IDC



## Packaging Specifications



REV. 11/19

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