



**THE DATASHEET OF  
SRU8028A-100Y**





## Features

- Shielded construction
- Inductance range: 2.5 to 100  $\mu$ H
- Heating current up to 4.5 A
- AEC-Q200 qualified
- RoHS compliant\* and halogen free\*\*

## SRU8028A Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

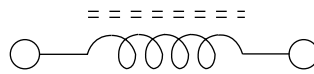
Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR ( $\Omega$ ) Max.	I rms (A)	I sat (A)
	L ( $\mu$ H)	Tol. (%)						
SRU8028A-2R5Y	2.5	$\pm 30$	15	7.96	65	0.018	4.5	4.2
SRU8028A-3R3Y	3.3	$\pm 30$	12	7.96	60	0.023	3.6	3.5
SRU8028A-4R7Y	4.7	$\pm 30$	15	7.96	50	0.026	3.7	3.2
SRU8028A-6R8Y	6.8	$\pm 30$	13	7.96	40	0.045	2.8	2.5
SRU8028A-100Y	10	$\pm 30$	22	2.52	35	0.057	2.6	2.2
SRU8028A-150Y	15	$\pm 30$	20	2.52	25	0.085	2.0	1.7
SRU8028A-220Y	22	$\pm 30$	22	2.52	20	0.13	1.6	1.5
SRU8028A-330Y	33	$\pm 30$	20	2.52	15	0.185	1.3	1.1
SRU8028A-470Y	47	$\pm 30$	14	2.52	12	0.23	1.2	1.0
SRU8028A-680Y	68	$\pm 30$	23	2.52	9	0.39	0.85	0.8
SRU8028A-101Y	100	$\pm 30$	20	0.796	8	0.50	0.75	0.7

### How to Order

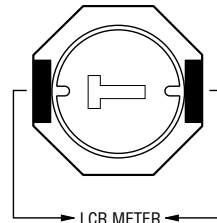
SRU8028A - 100Y

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

### Electrical Schematic



### Inductor Connection



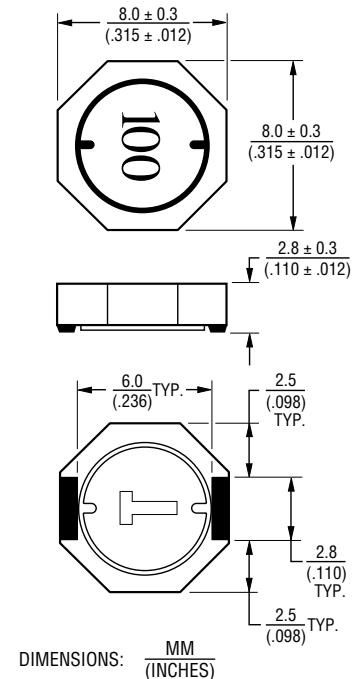
### General Specifications

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

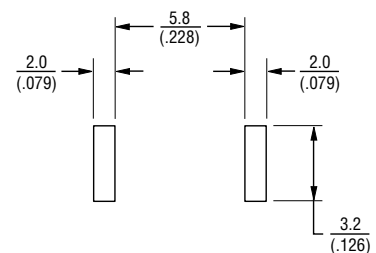
### Materials

Core .....Ferrite  
Wire .....Enameled copper  
Terminal Finish .....Ag/Ni/Sn  
Packaging .....1500 pcs. per reel

### Product Dimensions



### Recommended Layout



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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.

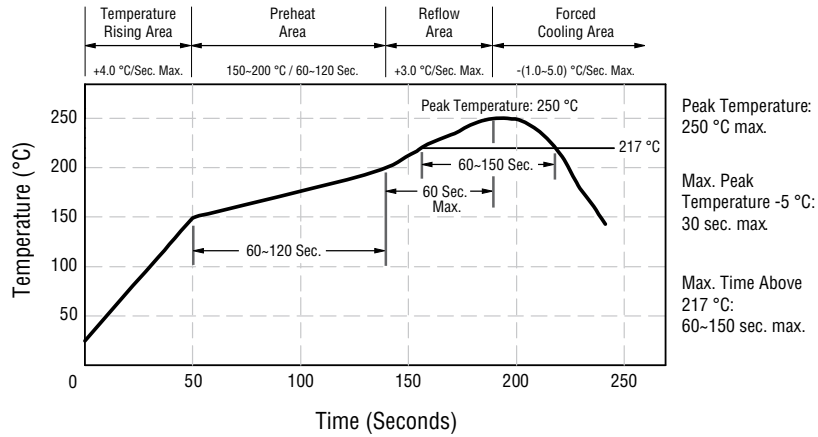
\*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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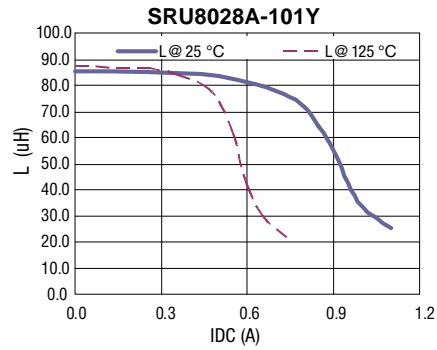
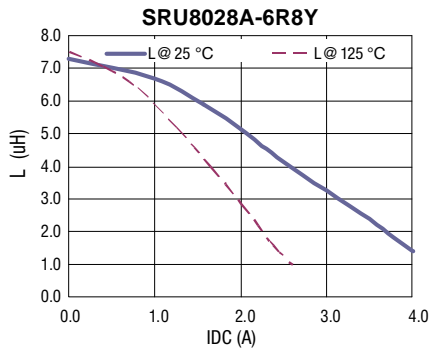
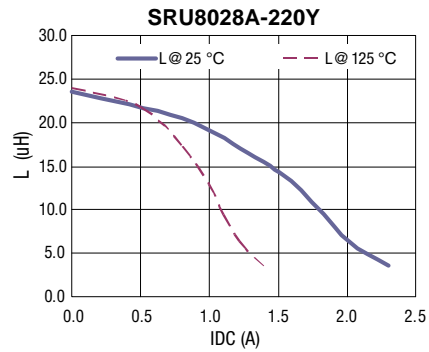
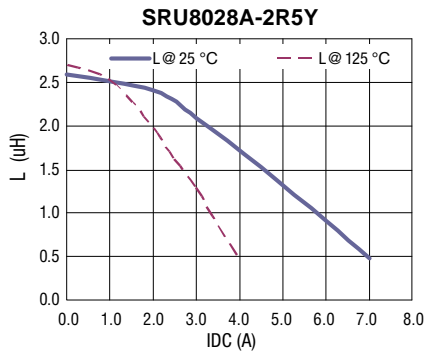
# SRU8028A Series - Shielded Power Inductors



## Soldering Profile



## L vs. IDC



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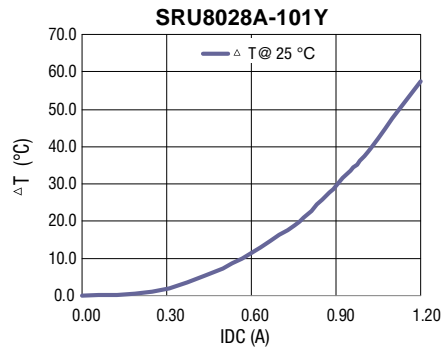
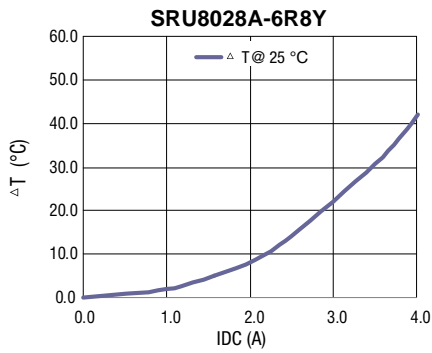
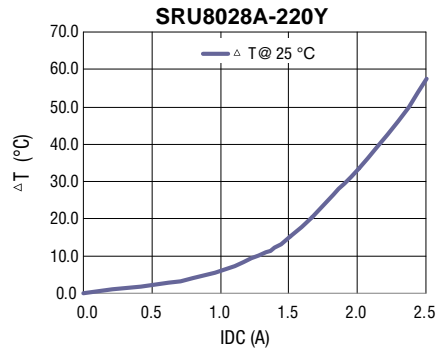
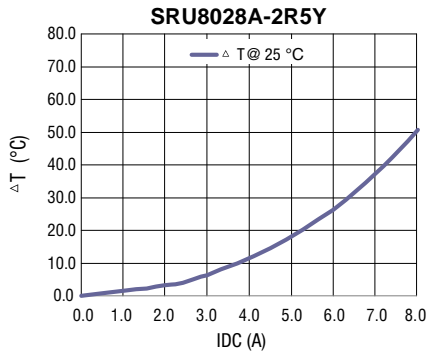
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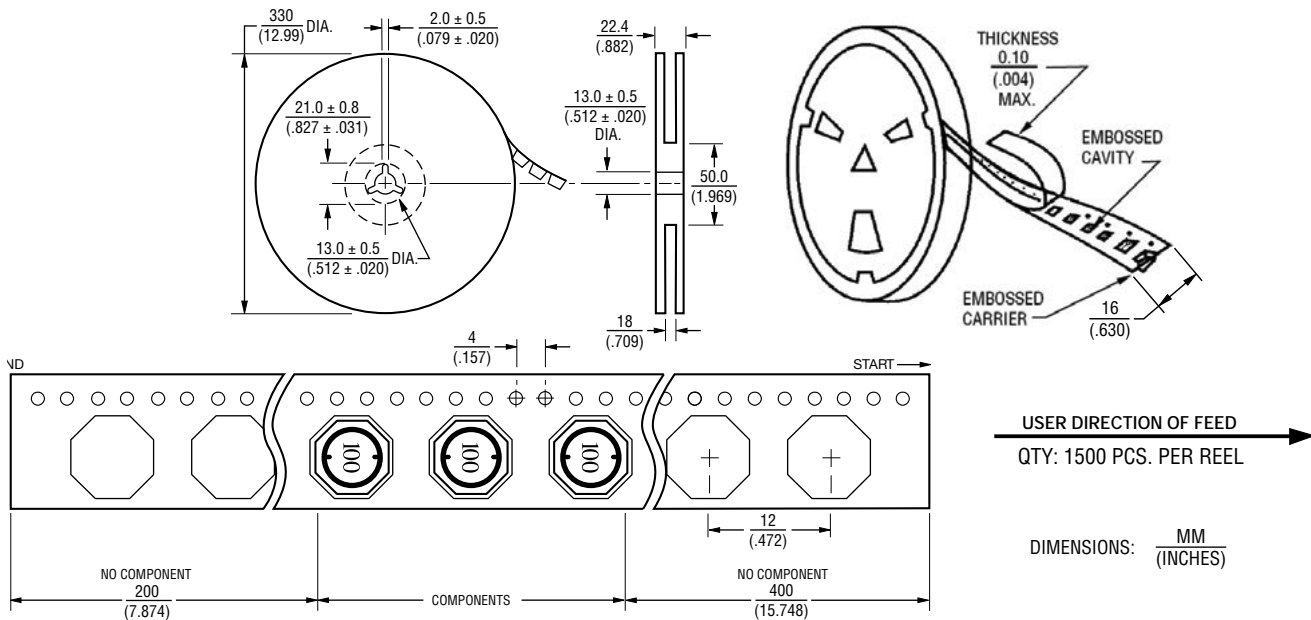
# SRU8028A Series - Shielded Power Inductors



## Temperature vs. IDC



## Packaging Specifications



REV. 11/19

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