

## Features

- Shielded construction
- Inductance range: 10 to 33  $\mu$ H
- Heating current up to 0.7 A
- AEC-Q200 qualified
- RoHS compliant\* and halogen free\*\*

**BOURNS®**

## SRU3028A Series – Shielded Power Inductors

### Electrical Specifications @ 25 °C

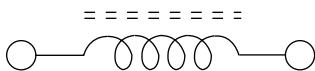
Bourns Part Number	Inductance @ 100 KHz / 0.1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (Ω) Max.	I rms (A)	I sat (A)
	L ( $\mu$ H)	Tol. (%)						
SRU3028A-100Y	10	±30	20	2.52	35	0.20	0.72	0.86
SRU3028A-150Y	15	±30	18	2.52	25	0.29	0.66	0.72
SRU3028A-220Y	22	±30	18	2.52	15	0.335	0.60	0.62
SRU3028A-330Y	33	±30	20	2.52	10	0.56	0.47	0.48

### How to Order

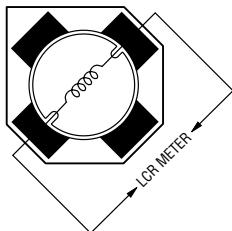
SRU3028A - 100Y

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

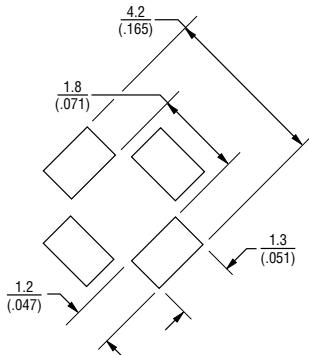
### Electrical Schematic



### Inductor Connection



### Recommended Layout



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

**BOURNS®**

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[www.bourns.com](http://www.bourns.com)



**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. 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](http://www.bourns.com/docs/legal/disclaimer.pdf).

### Additional Information

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### General Specifications

Operating Temperature

..... -40 °C to +125 °C  
(Temperature rise included)

Storage Temperature

..... -40 °C to +125 °C

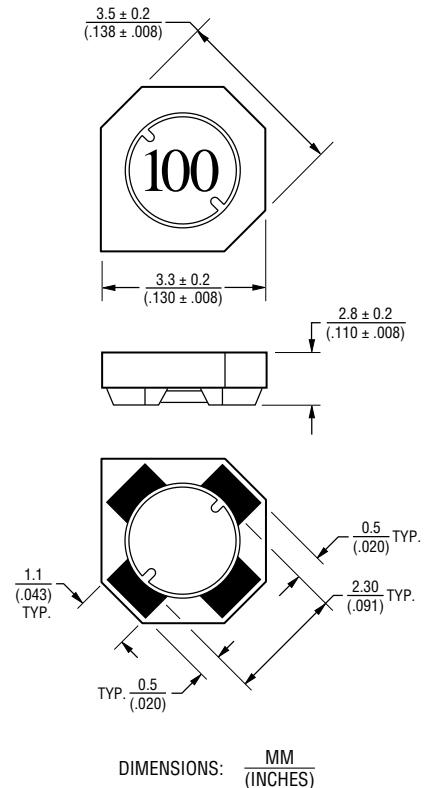
Temperature Rise

..... 40 °C typ. at rated I rms  
Inductance Drop ..... 35 % typ. at I sat

### Materials

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

### Product Dimensions



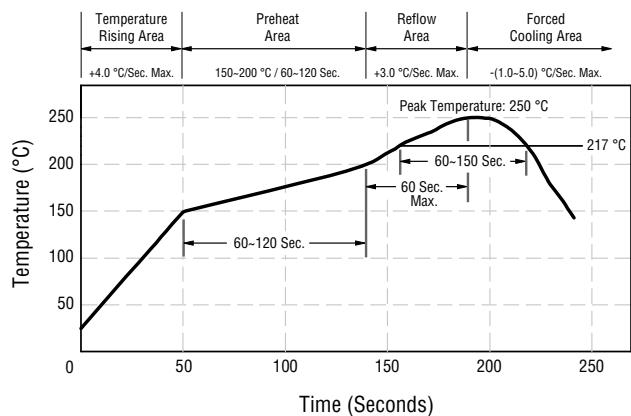
DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

# SRU3028A Series - Shielded Power Inductors

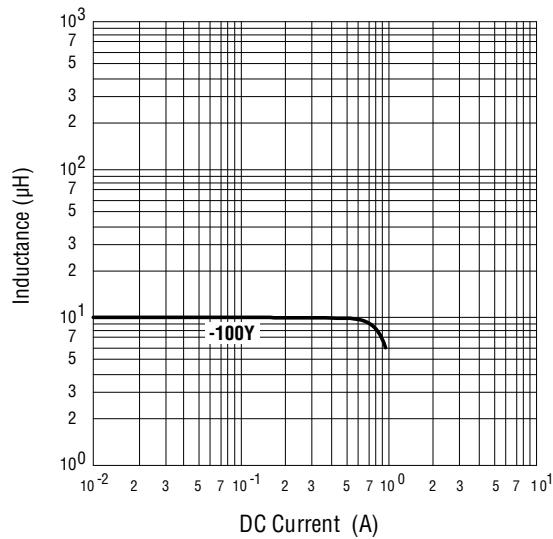
**BOURNS®**

## Soldering Profile

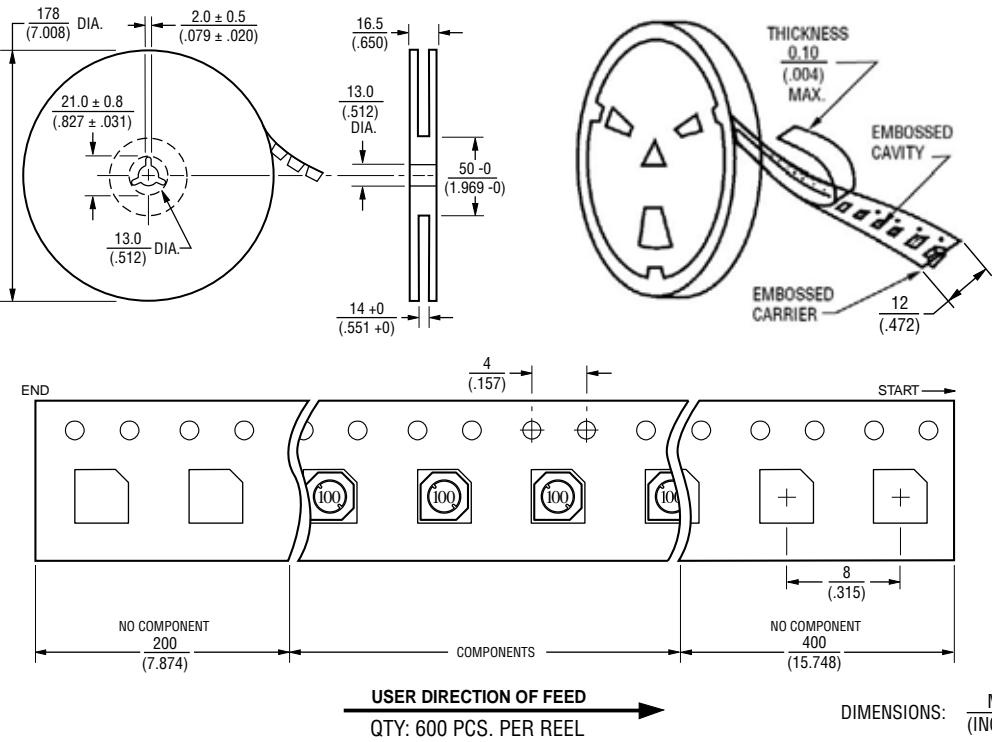
Peak Temperature: 250 °C max.  
Max. Peak Temperature -5°C: 30 sec. max.  
Max. Time Above 217°C: 60-150 sec. max.



## Inductance vs. DC Current Plot



## Packaging Specifications



REV. 06/24

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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