



**THE DATASHEET OF  
SRU6025A-8R2Y**





## Features

- Shielded construction
- Inductance range: 1.2 to 220  $\mu$ H
- Heating current up to 4 A
- AEC-Q200 qualified
- RoHS compliant\* and halogen free\*\*

## SRU6025A Series - Shielded Power Inductors

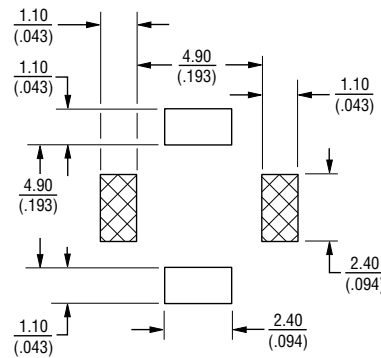
### Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 0.1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR ( $\Omega$ ) Max.	I rms (A)	I sat (A)
	L ( $\mu$ H)	Tol. (%)						
SRU6025A-1R2Y	1.2	$\pm$ 30	8	7.96	120	0.019	4.0	3.2
SRU6025A-2R2Y	2.2	$\pm$ 30	8	7.96	65	0.024	3.4	2.35
SRU6025A-3R3Y	3.3	$\pm$ 30	8	7.96	50	0.027	3.2	2.0
SRU6025A-4R7Y	4.7	$\pm$ 30	8	7.96	42	0.035	2.7	1.55
SRU6025A-6R8Y	6.8	$\pm$ 30	8	7.96	36	0.042	2.4	1.3
SRU6025A-8R2Y	8.2	$\pm$ 30	8	7.96	30	0.052	2.2	1.25
SRU6025A-100Y	10	$\pm$ 30	12	2.52	25	0.057	2.0	1.05
SRU6025A-150Y	15	$\pm$ 30	12	2.52	22	0.086	1.8	0.92
SRU6025A-220Y	22	$\pm$ 30	12	2.52	18	0.13	1.6	0.7
SRU6025A-330Y	33	$\pm$ 30	12	2.52	12	0.18	1.2	0.64
SRU6025A-470Y	47	$\pm$ 30	12	2.52	10	0.25	1.0	0.48
SRU6025A-680Y	68	$\pm$ 30	10	2.52	8	0.365	0.8	0.4
SRU6025A-101Y	100	$\pm$ 30	24	0.796	7	0.5	0.7	0.35
SRU6025A-151Y	150	$\pm$ 30	30	0.796	5	0.77	0.54	0.28
SRU6025A-221Y	220	$\pm$ 30	20	0.796	4	1.25	0.42	0.24

### How to Order

Model **SRU6025A - 100Y**  
 Value Code (see table)

### Recommended Layout



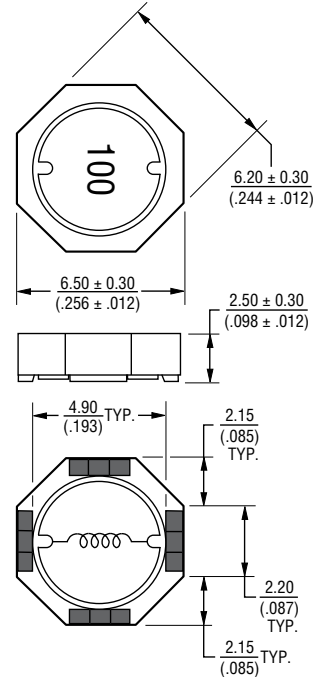
### General Specifications

Operating Temperature .....-40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature .....-40 °C to +125 °C  
 Temperature Rise .....30 °C typ. at rated I rms  
 Inductance Drop .....35 % typ. at I sat

### Materials

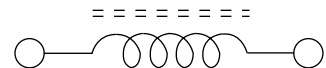
Core .....Ferrite  
 Wire .....Enameled copper  
 Terminal Finish .....Ag/Ni/Sn  
 Packaging .....600 pcs. per reel

### Product Dimensions



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

### Electrical Schematic



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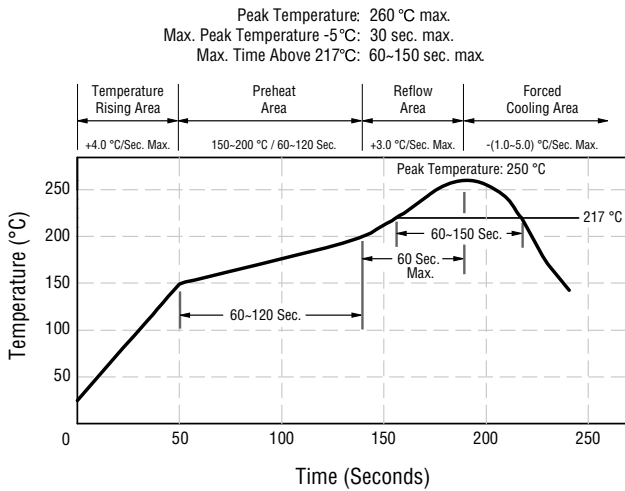
**WARNING Cancer and Reproductive Harm** [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\* 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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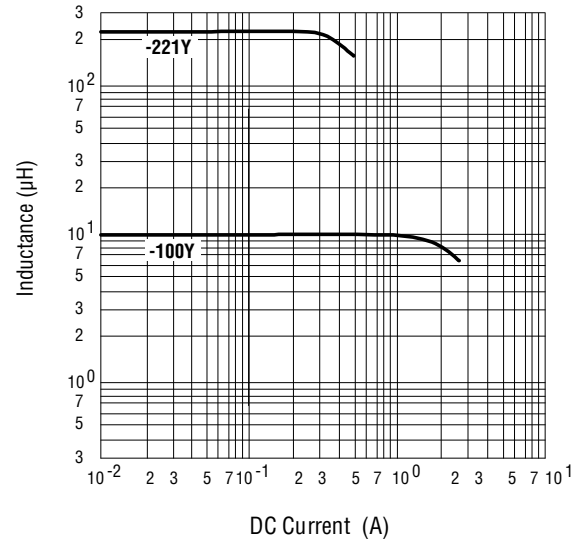
# SRU6025A Series - Shielded Power Inductors



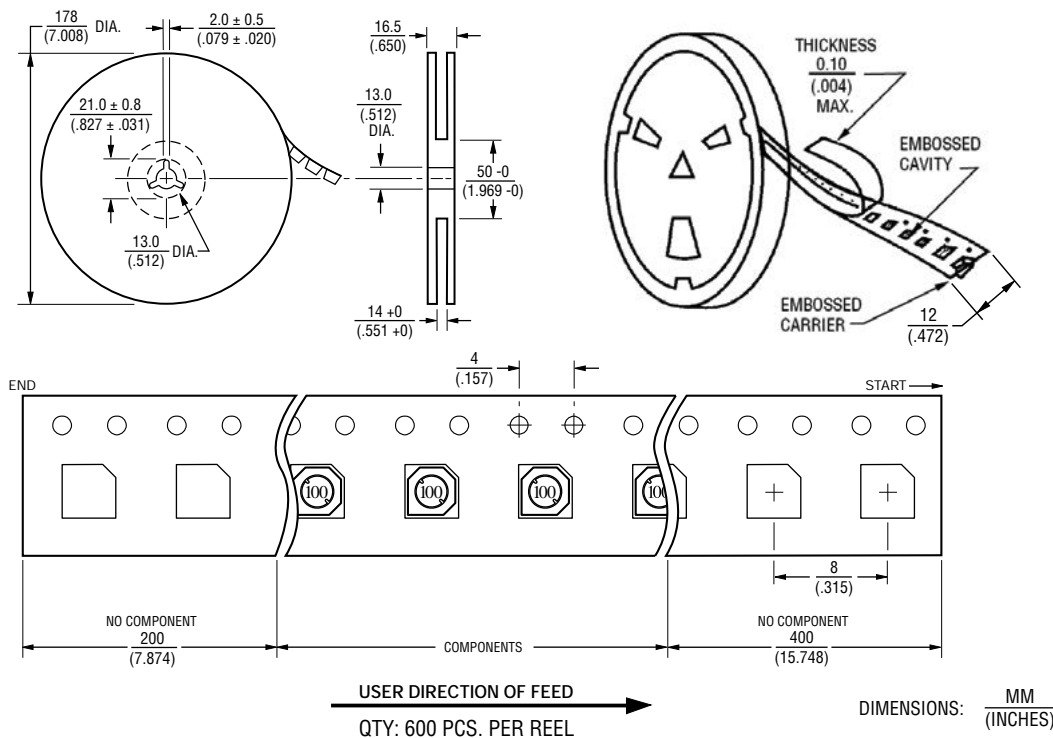
## Soldering Profile



## Inductance vs. DC Current Plot



## 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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