



**THE DATASHEET OF  
SRU1063A-6R8Y**





## Features

- Shielded construction
- Inductance range: 4.7 to 100  $\mu\text{H}$
- Heating current up to 5.5 A
- Dimensions: 10 x 10 x 6.5 mm
- AEC-Q200 qualified
- RoHS compliant\* and halogen free\*\*

# SRU1063A Series - Shielded Power Inductors

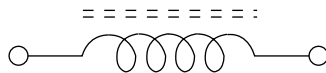
## Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 0.1 V		Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	DCR ( $\Omega$ )		I rms (A)	I sat (A)
	L ( $\mu\text{H}$ )	Tol. (%)				Typ.	Max.		
SRU1063A-4R7Y	4.7	$\pm 30$	11	7.96	30	0.011	0.014	5.5	5.7
SRU1063A-6R8Y	6.8	$\pm 30$	11	7.96	20	0.0145	0.018	5.2	5.2
SRU1063A-100Y	10	$\pm 30$	14	2.52	18	0.027	0.038	3.8	4.0
SRU1063A-150Y	15	$\pm 30$	12	2.52	14	0.03	0.042	3.2	3.4
SRU1063A-220Y	22	$\pm 30$	15	2.52	10	0.043	0.06	3.0	3.2
SRU1063A-330Y	33	$\pm 30$	12	2.52	8	0.075	0.105	2.2	2.4
SRU1063A-470Y	47	$\pm 30$	10	2.52	6	0.105	0.15	1.4	1.6
SRU1063A-680Y	68	$\pm 30$	8	2.52	5	0.15	0.21	1.2	1.35
SRU1063A-101Y	100	$\pm 30$	12	0.796	4	0.24	0.32	1.1	1.2

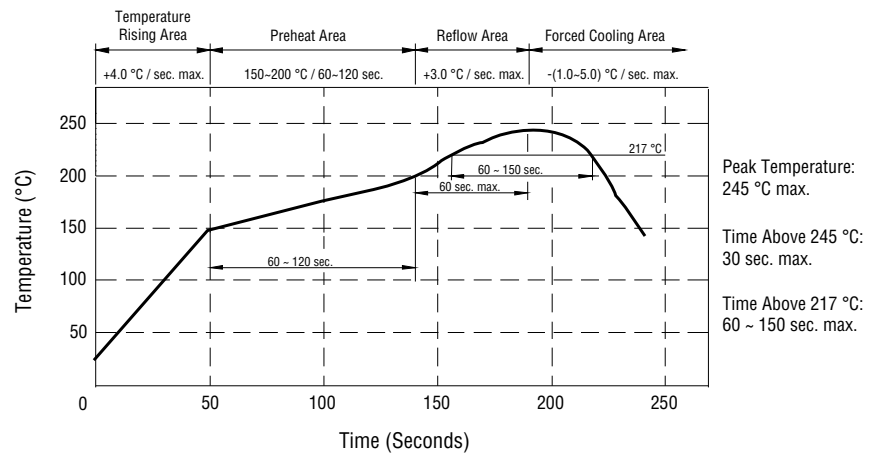
## How to Order

Model SRU1063A - 100Y  
 Value Code (see table)

## Electrical Schematic



## Soldering Profile



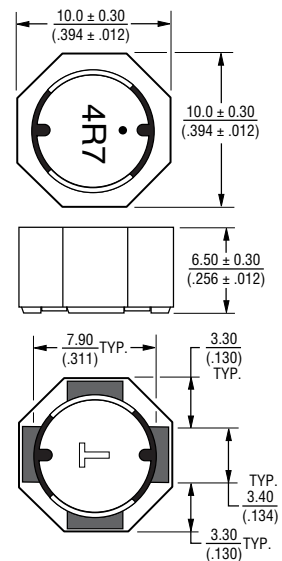
## General Specifications

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 % at I sat  
 Failure In Time (FIT) ..... 24.7/10<sup>9</sup> hours  
 Mean Time Between Failures (MTBF) ..... 40.4 x 10<sup>6</sup> hours

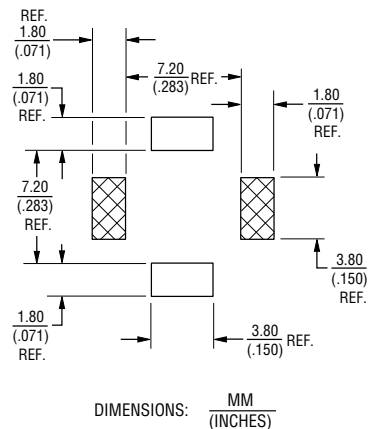
## Materials

Core..... Ferrite  
 Wire..... Enameled copper  
 Terminal..... Sn  
 Packaging ..... 500 pcs. per reel

## Product Dimensions



## Recommended Layout



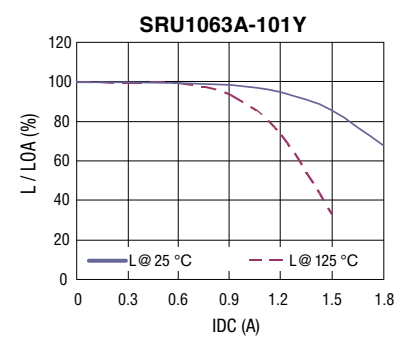
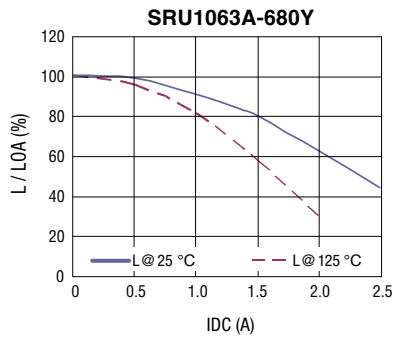
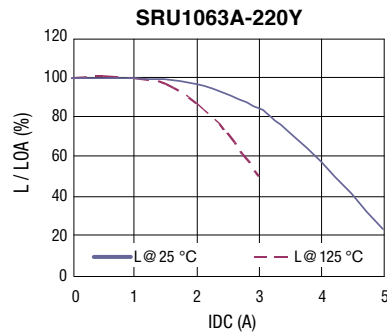
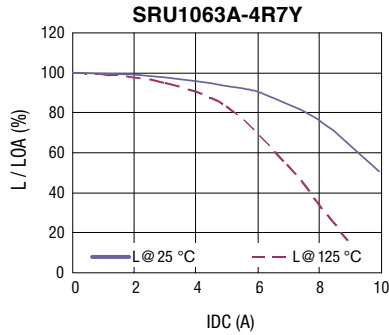
**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\* 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.  
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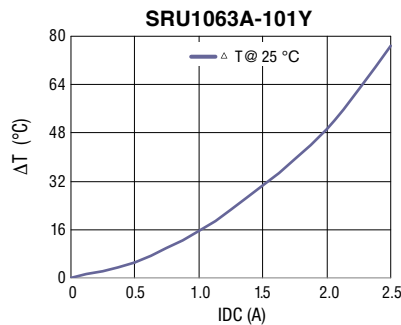
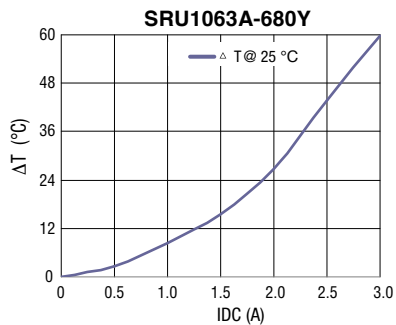
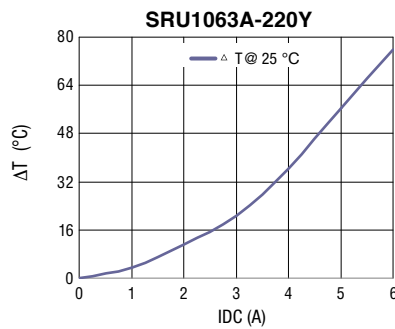
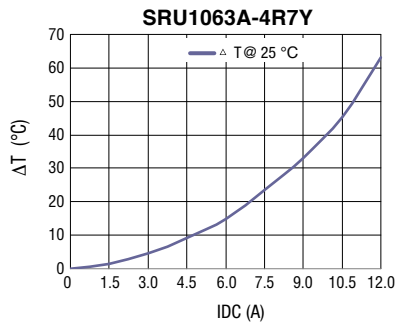
# SRU1063A Series - Shielded Power Inductors

**BOURNS®**

## Inductance vs. IDC



## Temperature vs. IDC

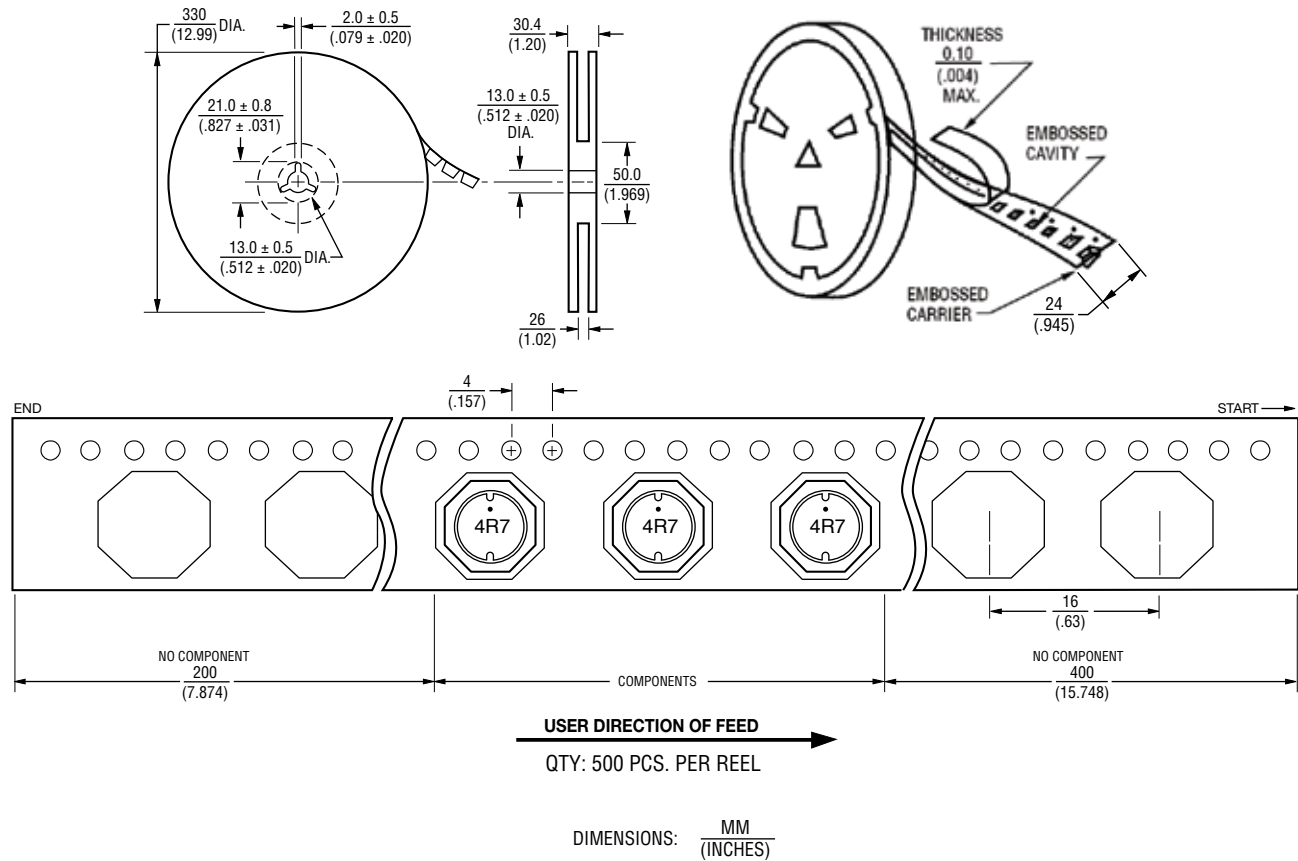


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# SRU1063A Series - Shielded Power Inductors

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## Packaging Specifications



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