



## Features

- Shielded construction
- Inductance range: 4.7 to 100  $\mu$ 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

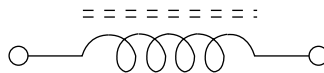
Bourns Part Number	Inductance @ 100 kHz / 0.1 V		Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	DCR ( $\Omega$ )		I rms (A)	I sat (A)
	L ( $\mu$ H)	Tol. (%)				Typ.	Max.		
SRU1063A-4R7Y	4.7	$\pm 30$	11	7.96	30	0.011	0.014	5.5	5.7
SRU1063A-6R8Y	6.8	$\pm 30$	11	7.96	20	0.0145	0.018	5.2	5.2
SRU1063A-100Y	10	$\pm 30$	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

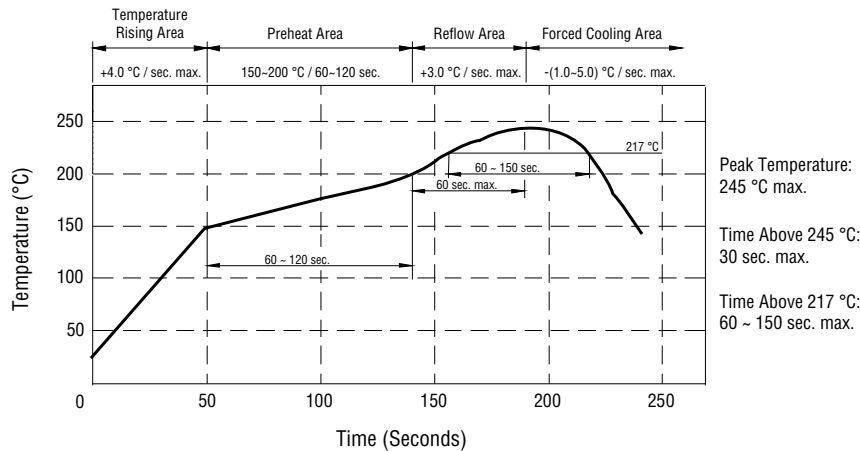
SRU1063A - 100Y

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

### Electrical Schematic



### Soldering Profile



**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. 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)

### General Specifications

#### Operating Temperature

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

#### Storage Temperature..-40 °C to +125 °C

..... 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

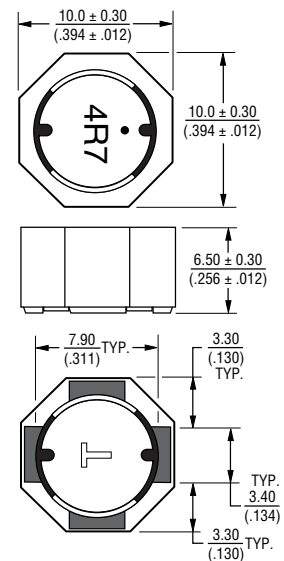
Core.....Ferrite

Wire.....Enamelled copper

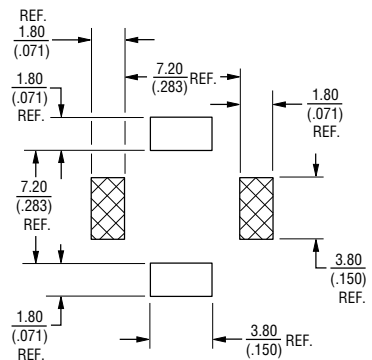
Terminal.....Sn

Packaging ..... 500 pcs. per reel

### Product Dimensions



### Recommended Layout

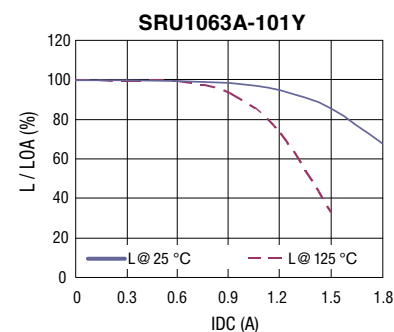
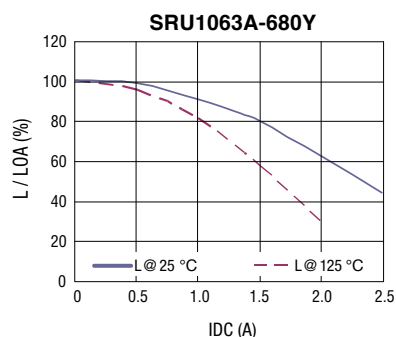
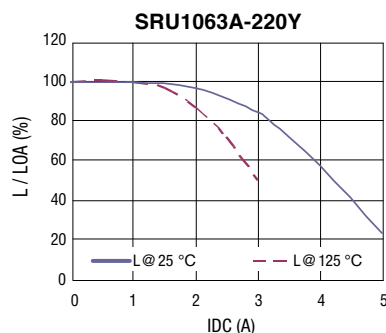
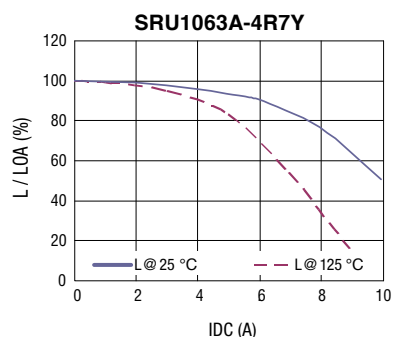


DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

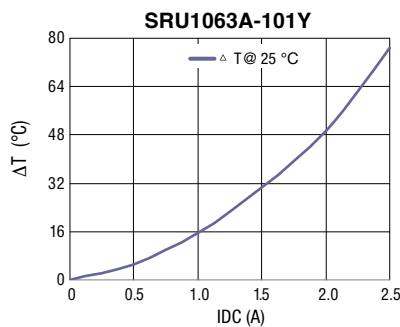
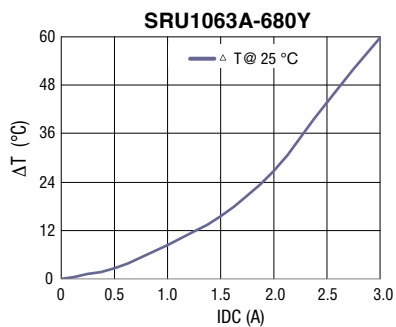
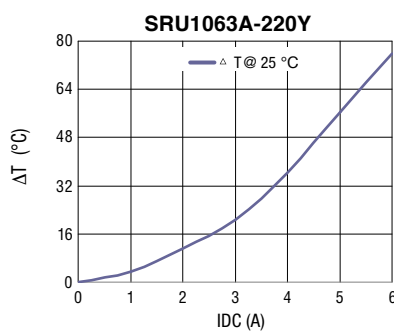
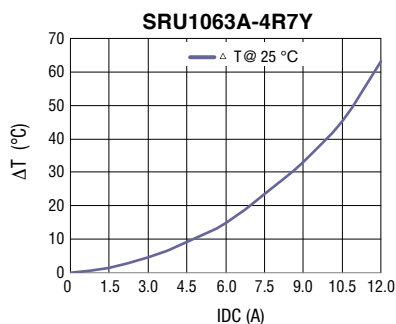
# SRU1063A Series - Shielded Power Inductors

**BOURNS®**

## Inductance vs. IDC



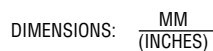
## Temperature vs. IDC



Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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