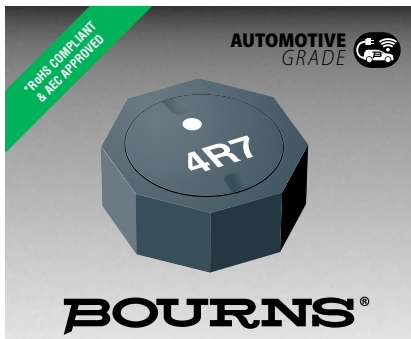




## Features

- 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

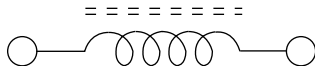
| Bourns Part Number | Inductance @ 100 kHz / 0.1 V |          | Q Ref. | Test Freq. (MHz) | SRF Typ. (MHz) | DCR ( $\Omega$ ) |       | I rms (A) | I sat (A) |
|--------------------|------------------------------|----------|--------|------------------|----------------|------------------|-------|-----------|-----------|
|                    | 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

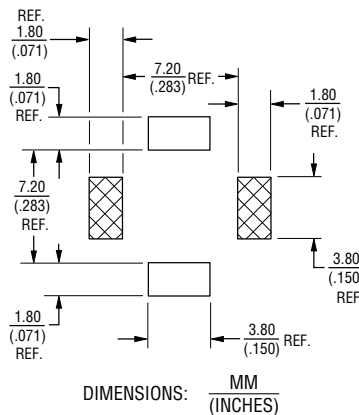
SRU1063A - 100Y

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

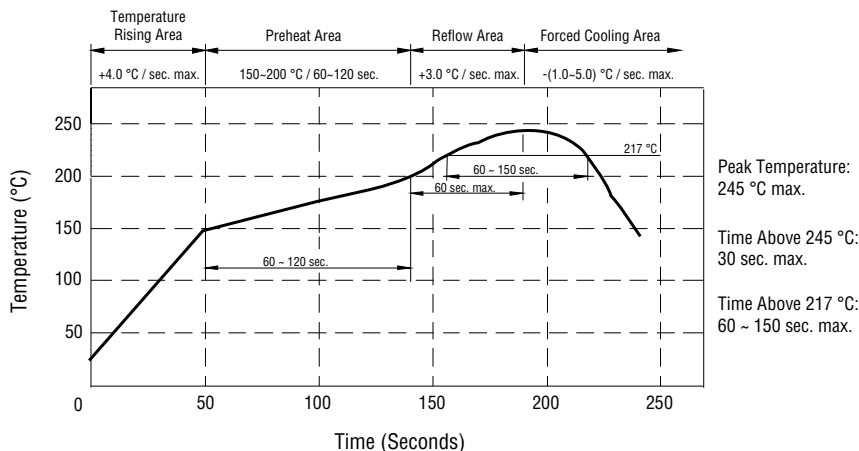
### Electrical Schematic



### Recommended Layout



### Soldering Profile



\* 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

Click these links for more information:



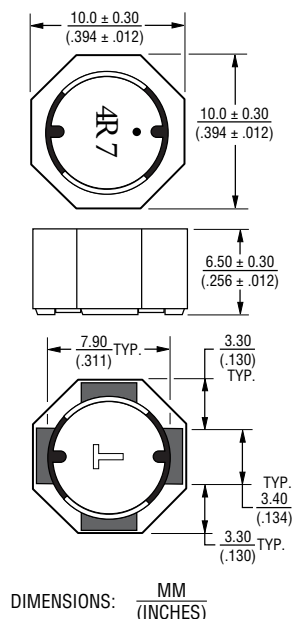
### General Specifications

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 ..... Enamelled copper  
Terminal ..... Sn  
Packaging ..... 500 pcs. per reel

### Product Dimensions

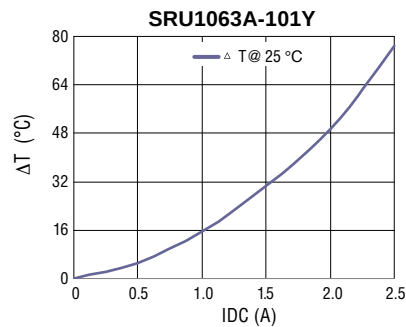
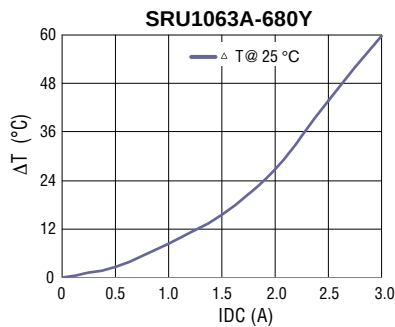
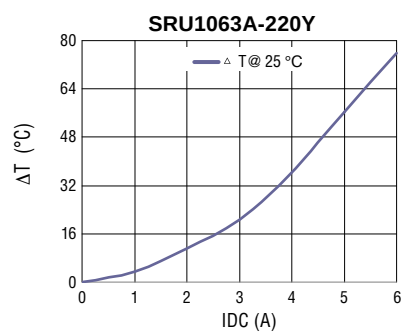
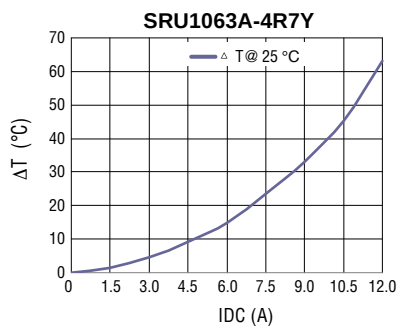
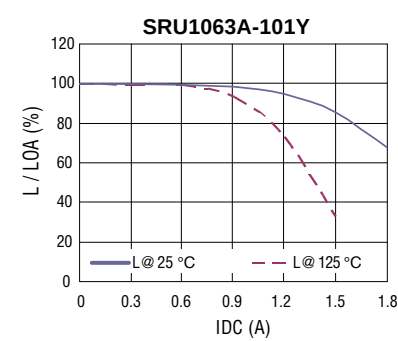
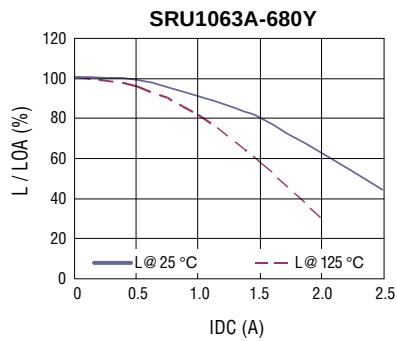
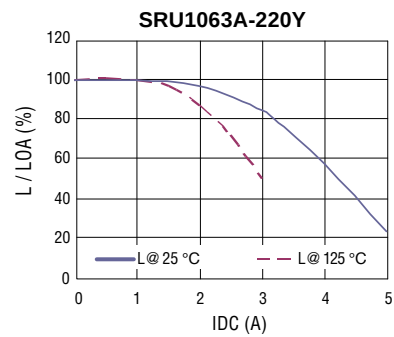
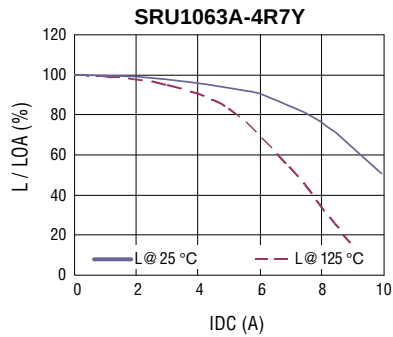


**WARNING**  
Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# SRU1063A Series - Shielded Power Inductors

**BOURNS®**

## Inductance vs. IDC



Specifications are subject to change without notice.

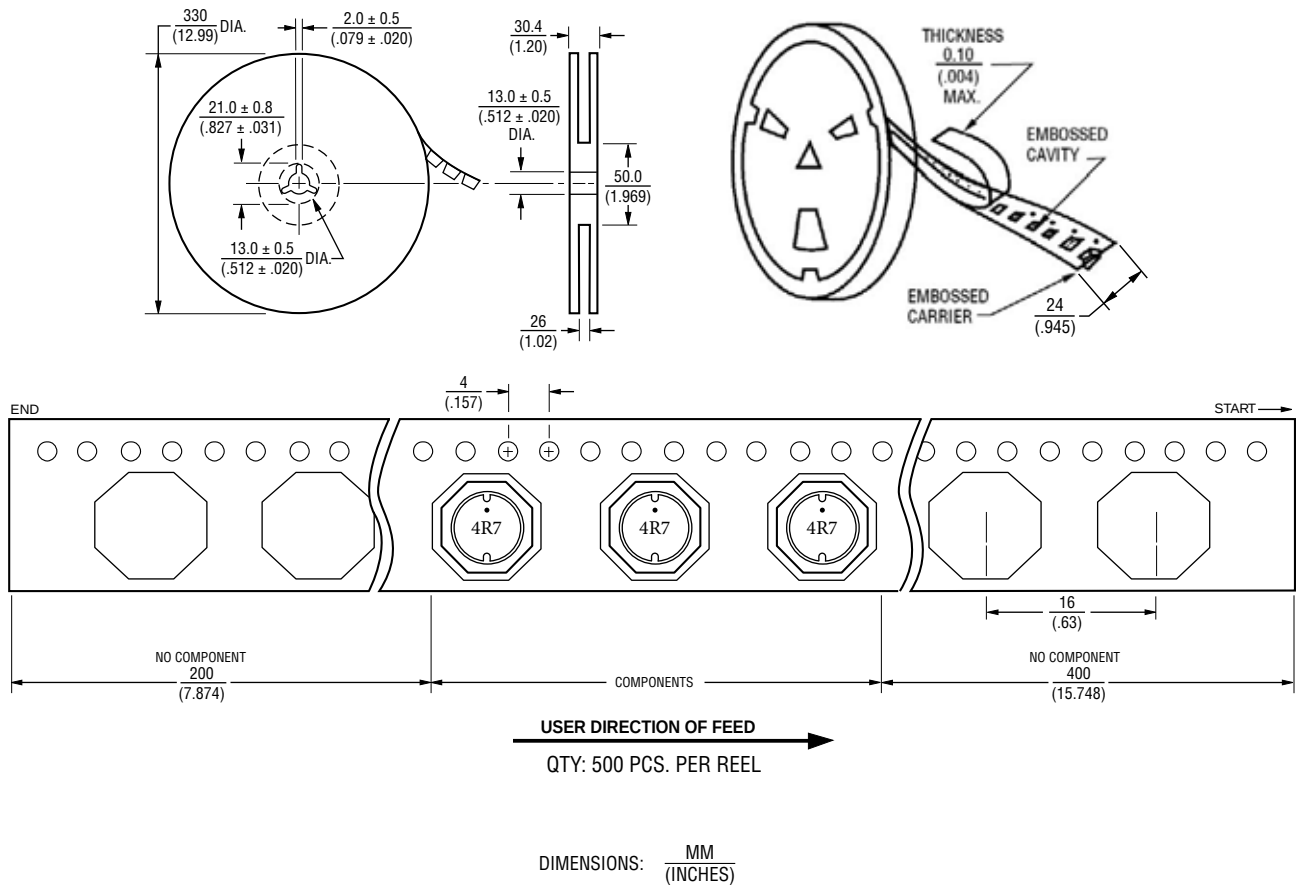
Users should verify actual device performance in their specific applications.

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# SRU1063A Series - Shielded Power Inductors

**BOURNS®**

## Packaging Specifications



**BOURNS®**

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Asia: Tel: +886-2-2562-4117 • Email: [asiacus@bourns.com](mailto:asiacus@bourns.com)

EMEA: Tel: +36 88 885 877 • Email: [eurocus@bourns.com](mailto:eurocus@bourns.com)

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