

Features

- Shielded construction
- Inductance range: 4.7 to 100 μH
- Heating current up to 5.5 A

Electrical Schematic

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- Dimensions: 10 x 10 x 6.5 mm
- AEC-Q200 gualified
- RoHS compliant* and halogen free**

SRU1063A Series - Shielded Power Inductors

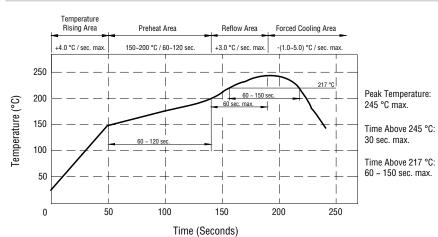
Electrical Specifications @ 25 °C

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

How to Order SRU1063A - 100Y Model

Value Code (see table) -

Soldering Profile





* 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 <u>www.bourns.com/docs/legal/disclaimer.pdf</u>

General Specifications

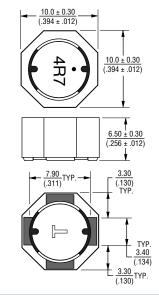
Operating Temperature

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

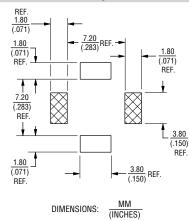
Materials

| Core | Ferrite |
|-----------|-----------------|
| Wire | Enameled copper |
| Terminal | Sn |
| Packaging | |

Product Dimensions



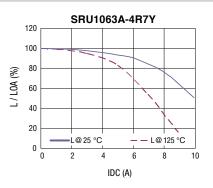
Recommended Layout

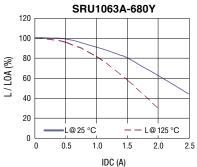


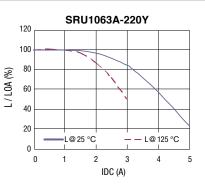
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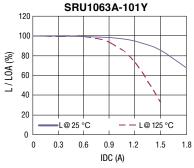
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Inductance vs. IDC

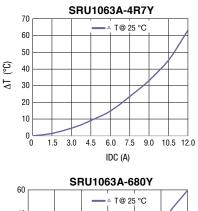


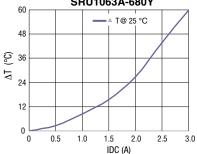


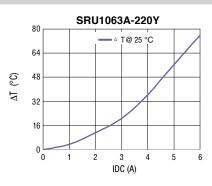


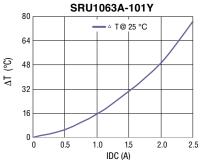


Temperature vs. IDC









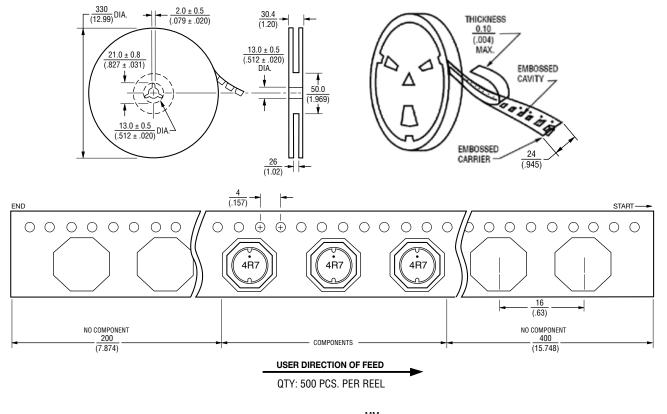
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DIMENSIONS: MM (INCHES)

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