



Features

- Shielded construction
- Inductance range: 2.5 to 100 μ H
- Heating current up to 4.5 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRU8028A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

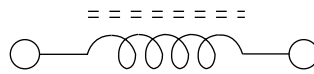
| Bourns Part Number | Inductance @ 100 KHz / 1 V | | Q (Ref.) | Test Freq. (MHz) | SRF (MHz) Typ. | DCR (Ω) Max. | I rms (A) | I sat (A) |
|--------------------|----------------------------|----------|----------|------------------|----------------|-----------------------|-----------|-----------|
| | L (μ H) | Tol. (%) | | | | | | |
| SRU8028A-2R5Y | 2.5 | \pm 30 | 15 | 7.96 | 65 | 0.018 | 4.5 | 4.2 |
| SRU8028A-3R3Y | 3.3 | \pm 30 | 12 | 7.96 | 60 | 0.023 | 3.6 | 3.5 |
| SRU8028A-4R7Y | 4.7 | \pm 30 | 15 | 7.96 | 50 | 0.026 | 3.7 | 3.2 |
| SRU8028A-6R8Y | 6.8 | \pm 30 | 13 | 7.96 | 40 | 0.045 | 2.8 | 2.5 |
| SRU8028A-100Y | 10 | \pm 30 | 22 | 2.52 | 35 | 0.057 | 2.6 | 2.2 |
| SRU8028A-150Y | 15 | \pm 30 | 20 | 2.52 | 25 | 0.085 | 2.0 | 1.7 |
| SRU8028A-220Y | 22 | \pm 30 | 22 | 2.52 | 20 | 0.13 | 1.6 | 1.5 |
| SRU8028A-330Y | 33 | \pm 30 | 20 | 2.52 | 15 | 0.185 | 1.3 | 1.1 |
| SRU8028A-470Y | 47 | \pm 30 | 14 | 2.52 | 12 | 0.23 | 1.2 | 1.0 |
| SRU8028A-680Y | 68 | \pm 30 | 23 | 2.52 | 9 | 0.39 | 0.85 | 0.8 |
| SRU8028A-101Y | 100 | \pm 30 | 20 | 0.796 | 8 | 0.50 | 0.75 | 0.7 |

How to Order

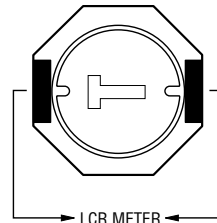
Model _____ **SRU8028A - 100Y**

Value Code (see table) _____

Electrical Schematic



Inductor Connection



General Specifications

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

Storage Temperature-40 °C to +125 °C

Temperature Rise40 °C typ. at rated I rms

Inductance Drop35 % typ. at I sat

Materials

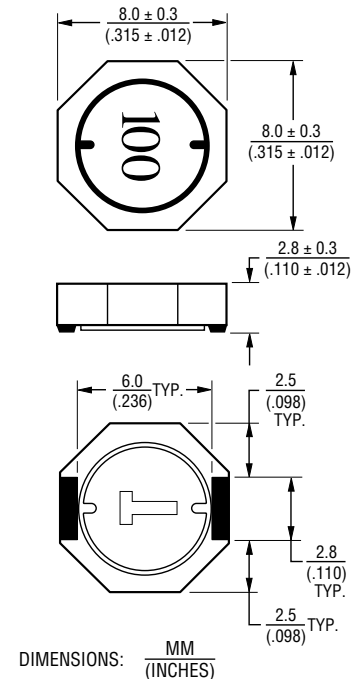
CoreFerrite

WireEnameled copper

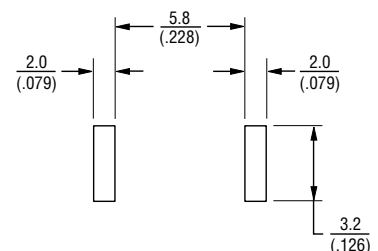
Terminal FinishAg/Ni/Sn

Packaging1500 pcs. per reel

Product Dimensions



Recommended Layout



BOURNS®

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EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com



WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

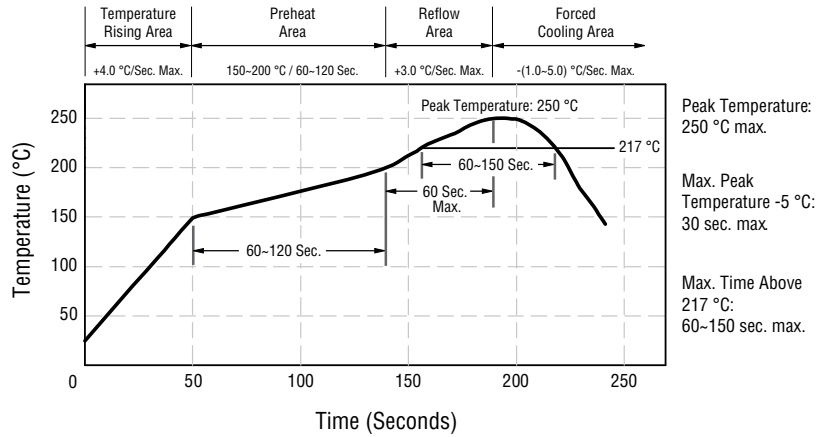
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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.

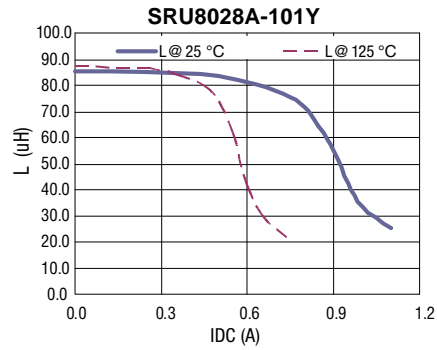
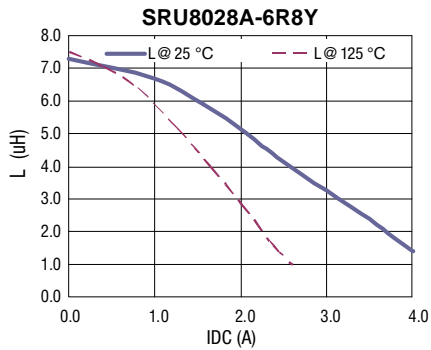
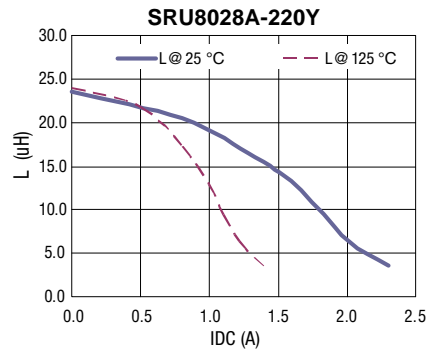
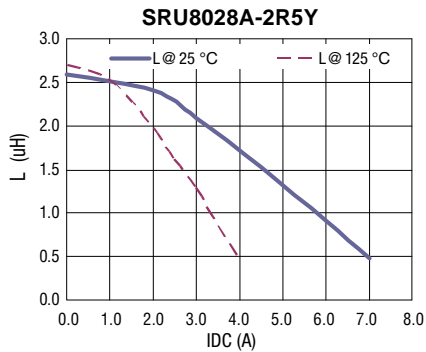
SRU8028A Series - Shielded Power Inductors



Soldering Profile



L vs. IDC



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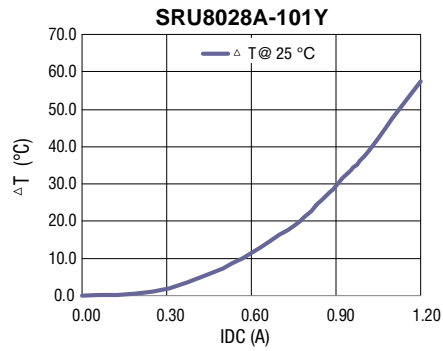
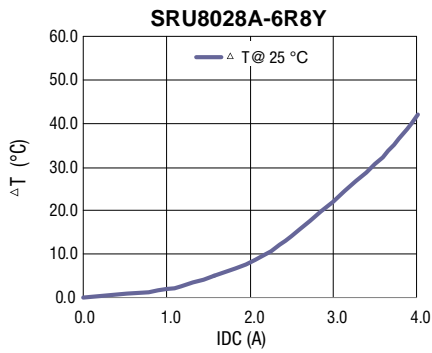
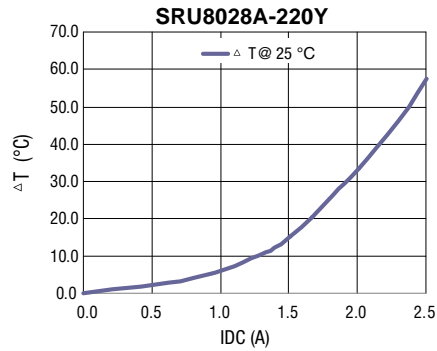
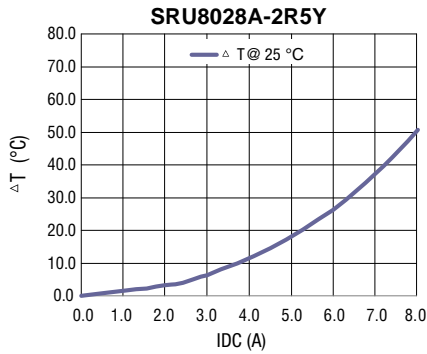
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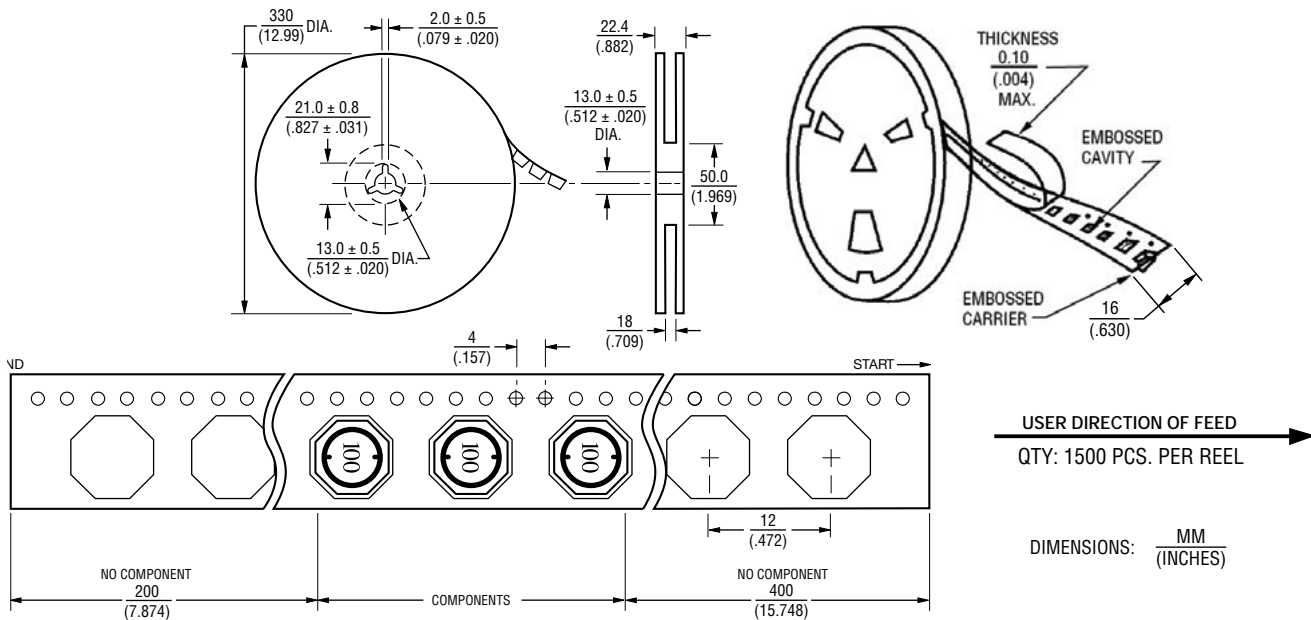
SRU8028A Series - Shielded Power Inductors



Temperature vs. IDC



Packaging Specifications



REV. 11/19

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