



Features

- Shielded construction
- Inductance range: 1.2 to 100 μH
- Heating current up to 3.5 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRU5028A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

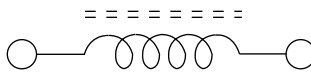
| Bourns Part Number | Inductance @ 100 KHz / 0.1 V | | Q (Ref.) | Test Freq. (MHz) | SRF (MHz) Typ. | DCR (Ω) Max. | I rms (A) | I sat (A) |
|--------------------|------------------------------|----------|----------|------------------|----------------|-----------------------|-----------|-----------|
| | L (μH) | Tol. (%) | | | | | | |
| SRU5028A-1R2Y | 1.2 | ± 30 | 10 | 7.96 | 200 | 0.022 | 3.5 | 3.4 |
| SRU5028A-2R2Y | 2.2 | ± 30 | 10 | 7.96 | 130 | 0.027 | 3.2 | 2.5 |
| SRU5028A-3R3Y | 3.3 | ± 30 | 10 | 7.96 | 90 | 0.032 | 2.8 | 2.1 |
| SRU5028A-4R7Y | 4.7 | ± 30 | 9 | 7.96 | 50 | 0.045 | 2.2 | 1.85 |
| SRU5028A-6R8Y | 6.8 | ± 30 | 10 | 7.96 | 45 | 0.056 | 2.0 | 1.55 |
| SRU5028A-100Y | 10 | ± 30 | 18 | 2.52 | 25 | 0.085 | 1.8 | 1.4 |
| SRU5028A-150Y | 15 | ± 30 | 18 | 2.52 | 23 | 0.14 | 1.1 | 1.0 |
| SRU5028A-220Y | 22 | ± 30 | 15 | 2.52 | 18 | 0.21 | 0.95 | 0.85 |
| SRU5028A-330Y | 33 | ± 30 | 15 | 2.52 | 16 | 0.26 | 0.8 | 0.68 |
| SRU5028A-470Y | 47 | ± 30 | 13 | 2.52 | 13 | 0.36 | 0.7 | 0.62 |
| SRU5028A-680Y | 68 | ± 30 | 13 | 2.52 | 10 | 0.55 | 0.56 | 0.46 |
| SRU5028A-101Y | 100 | ± 30 | 15 | 0.796 | 8 | 0.8 | 0.47 | 0.42 |

How to Order

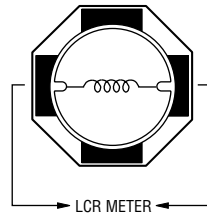
SRU5028A - 100Y

Model _____
Value Code (see table) _____

Electrical Schematic



Inductor Connection



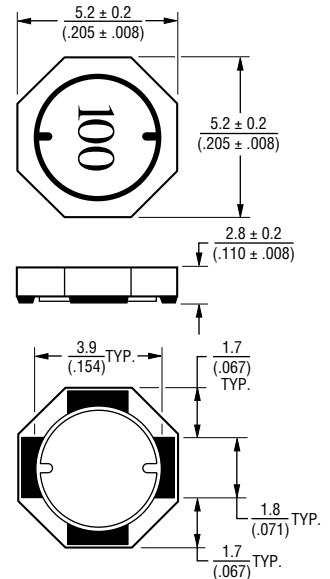
General Specifications

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

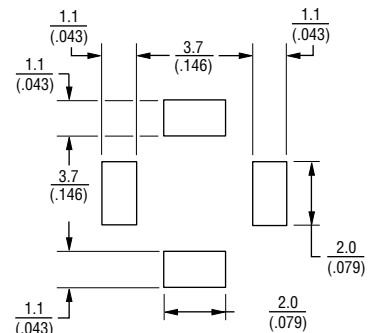
Materials

CoreFerrite
WireEnameled copper
Terminal FinishAg/Ni/Sn
Packaging600 pcs. per 7" reel

Product Dimensions



Recommended Layout



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

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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.

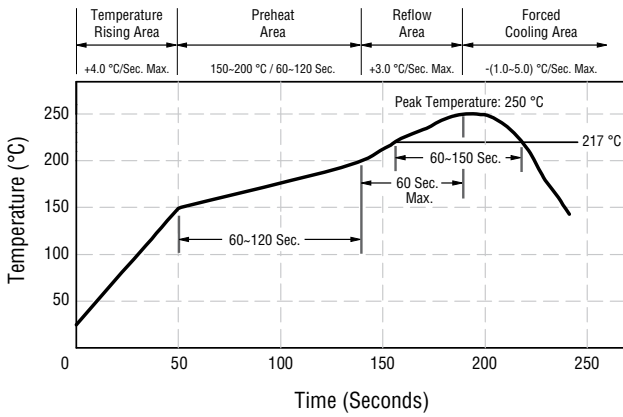
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SRU5028A Series - Shielded Power Inductors

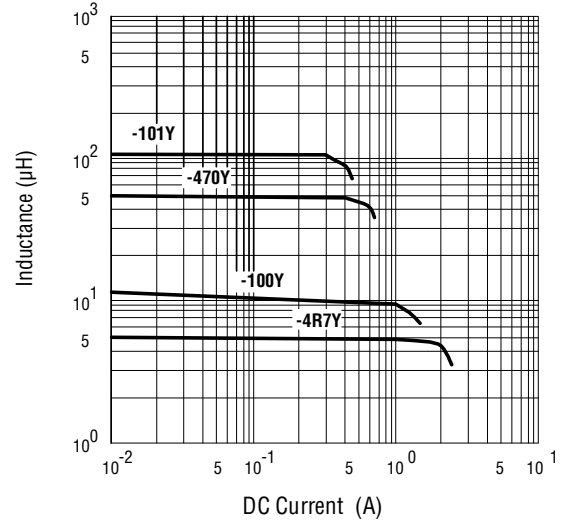


Soldering Profile

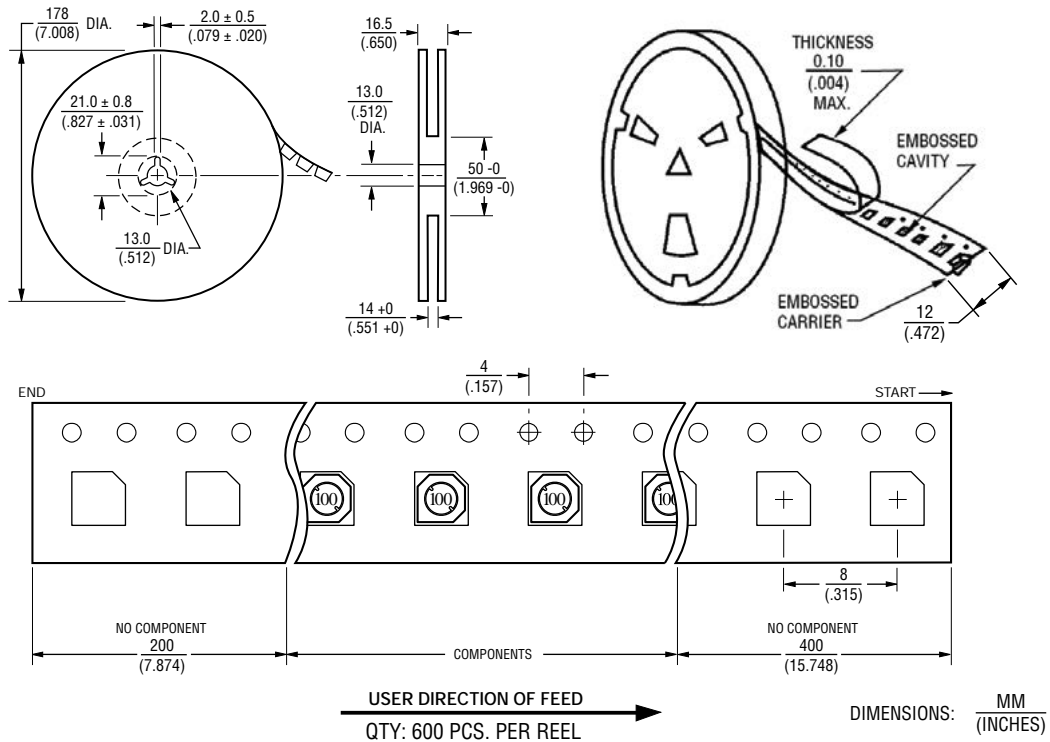
Peak Temperature: 250 °C max.
 Max. Peak Temperature -5°C: 30 sec. max.
 Max. Time Above 217°C: 60-150 sec. max.



Inductance vs. DC Current Plot



Packaging Specifications



REV. 11/19

Specifications are subject to change without notice.

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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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