



## Features

- Available in E6 series
- Unit height of 2.8 mm
- Current up to 4.5 A
- Lead free
- RoHS compliant\*

## Applications

- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs
  - Car radios

# SRU8028 Series - Shielded SMD Power Inductors

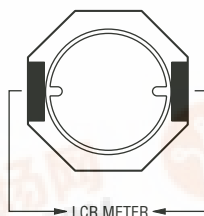
## Electrical Specifications

| Bourns Part No. | Inductance 100 KHz |        | Q Ref. | Test Frequency (MHz) | SRF Min. (MHz) | RDC (mΩ) | I rms Max. (A) | I sat Typ. (A) |
|-----------------|--------------------|--------|--------|----------------------|----------------|----------|----------------|----------------|
|                 | (μH)               | Tol. % |        |                      |                |          |                |                |
| SRU8028-2R5Y    | 2.5                | ± 30   | 15     | 7.96                 | 65.0           | 13.6     | 4.50           | 4.20           |
| SRU8028-3R3Y    | 3.3                | ± 30   | 12     | 7.96                 | 60.0           | 17.5     | 3.60           | 3.50           |
| SRU8028-4R7Y    | 4.7                | ± 30   | 15     | 7.96                 | 50.0           | 20.0     | 3.70           | 3.20           |
| SRU8028-6R8Y    | 6.8                | ± 30   | 13     | 7.96                 | 40.0           | 34.0     | 2.80           | 2.50           |
| SRU8028-100Y    | 10.0               | ± 30   | 22     | 2.52                 | 35.0           | 45.0     | 2.60           | 2.20           |
| SRU8028-150Y    | 15.0               | ± 30   | 20     | 2.52                 | 25.0           | 66.0     | 2.00           | 1.70           |
| SRU8028-220Y    | 22.0               | ± 30   | 22     | 2.52                 | 20.0           | 106.0    | 1.60           | 1.50           |
| SRU8028-330Y    | 33.0               | ± 30   | 20     | 2.52                 | 15.0           | 147.0    | 1.30           | 1.10           |
| SRU8028-470Y    | 47.0               | ± 30   | 14     | 2.52                 | 12.0           | 177.0    | 1.20           | 1.00           |
| SRU8028-680Y    | 68.0               | ± 30   | 23     | 2.52                 | 9.0            | 317.0    | 0.85           | 0.80           |
| SRU8028-101Y    | 100.0              | ± 30   | 35     | 0.796                | 8.0            | 390.0    | 0.75           | 0.70           |

## Electrical Schematic



## Inductor Connection



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

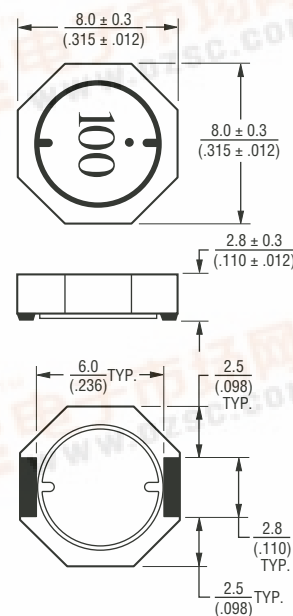
## General Specifications

Test Voltage ..... 1 V  
 Reflow Soldering ... 230 °C, 50 sec. max.  
 Operating Temperature ... -40 °C to +125 °C  
 (Temperature rise included)  
 Storage Temperature ... -40 °C to +125 °C  
 Resistance to Soldering Heat  
 ..... 260 °C for 10 sec.

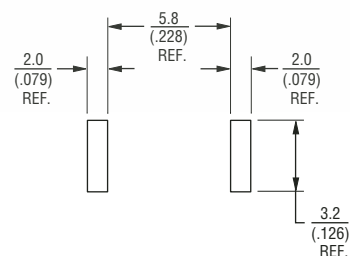
## Materials

Core ..... Ferrite DR and RI core  
 Wire ..... Enameled copper  
 Base ..... LCP E4008  
 Terminal ..... Ag/Ni/Sn  
 Rated Current  
 ..... Ind. drop 35 % typ. at Isat  
 Temperature Rise  
 ..... 40 °C max. at rated Irms  
 Packaging ..... 1500 pcs. per reel

## Product Dimensions



## Recommended Layout



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**BOURNS®**

## Packaging Specifications

