Features
- Available in E6 series
- Unit height of 2.8 mm
- Current up to 7 A
- RoHS compliant*

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

SRU8028 Series - Shielded SMD Power Inductors

<table>
<thead>
<tr>
<th>Electrical Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bourns Part No.</td>
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<tr>
<td>----------------</td>
</tr>
<tr>
<td>SRU8028-1R0Y</td>
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<tr>
<td>SRU8028-2R5Y</td>
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<tr>
<td>SRU8028-3R3Y</td>
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<td>SRU8028-4R7Y</td>
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<td>SRU8028-6R8Y</td>
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<td>SRU8028-8R2Y</td>
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<td>SRU8028-100Y</td>
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<td>SRU8028-120Y</td>
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<td>SRU8028-150Y</td>
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<td>SRU8028-220Y</td>
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<td>SRU8028-330Y</td>
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<td>SRU8028-680Y</td>
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<td>SRU8028-101Y</td>
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</tbody>
</table>

**K-Factor: To calculate core flux density, Bp-p (gauss) = K x LuH x ΔI (peak-to-peak ripple current, A), determine core loss from Core Loss vs. Flux Density plot.

Core Loss vs. Flux Density

<table>
<thead>
<tr>
<th>Core Loss (mW)</th>
<th>Flux Density Bp-p (gauss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10000</td>
<td>10</td>
</tr>
<tr>
<td>1000</td>
<td>100</td>
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<tr>
<td>100</td>
<td>1000</td>
</tr>
<tr>
<td>10</td>
<td>10000</td>
</tr>
</tbody>
</table>

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.
- Rated Current, Ind. drop 35 % typ. at Isat
- Temperature Rise ........................................ 40 °C max. at rated Irms
- Moisture Sensitivity Level ................................... 1 ESD Classification (HBM) ............................. N/A

Materials
- Core...................... Ferrite DR and RI core
- Wire......................... Enamled copper
- Terminal........................ Ag/Ni/Sn
- Packaging................. 1500 pcs. per reel

Product Dimensions

Electrical Schematic

Inductor Connection

Recommended Layout

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

WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov
SRU8028 Series - Shielded SMD Power Inductors

Packaging Specifications

![Diagram showing packaging specifications for SRU8028 Series]

- **QTY**: 1500 PCS. PER REEL

**Dimensions** (MM)
- EMBOSSED CARRIER: 12.0 ± 0.5 (0.472 ± 0.020)
- COVER TAPE: 50.0 (1.969)
- EMBOSS CAVITY: 22.4 (0.882)
- TAPE: 18 (0.709)
- DIA.: 330.0 (12.99)
- COVER: 2.0 ± 0.5 (0.079 ± 0.020)
- EMBOSSED CARRIER: 13.0 ± 0.5 (0.512 ± 0.020)
- EMBOSSED CAVITY: 13.0 ± 0.5 (0.512 ± 0.020)
- DIA.: 21.0 ± 0.8 (0.827 ± 0.031)

**Dimensions** (INCHES)
- USER DIRECTION OF FEED: 160 (6.299), 12 (0.472), 4 (0.157)
- START-END: 4 (0.157)

NO COMPONENT
- 160 (6.299)
- 400 (15.748)

COMPONENTS
- 160

Dimensions: MM (INCHES)

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