Features
- Available in E6 series
- Unit height of 2.8 mm
- Current up to 3.5 A
- RoHS compliant*

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

SRU6025 Series - Shielded SMD Power Inductors

Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 KHz (μH)</th>
<th>Q Ref.</th>
<th>Test Freq. (MHz)</th>
<th>SRF Typ. (kHz)</th>
<th>RDC Max. (mΩ)</th>
<th>I rms Max. (A)</th>
<th>I sat Typ. (A)</th>
<th>**K-Factor</th>
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<tr>
<td>SRU6025-1R2Y</td>
<td>1.2 ±30</td>
<td>8</td>
<td>7.96</td>
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<td>4.00</td>
<td>3.20</td>
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*K-Factor: To calculate core flux density, Bp = (μH) x L x A x I (peak-to-peak ripple current, A), determine core loss from Core Loss vs. Flux Density plot on page 2.

Recommended Layout

Electrical Schematic

Recommended Layout

General Specifications
Test Voltage: 0.1 V
Reflow Soldering: 230 °C, 50 sec. max.
Operating Temp: -40 °C to +125 °C (Temperature rise included)
Storage Temp: -40 °C to +125 °C
Moisture Sensitivity Level: 1

Materials
Core: Ferrite DR and RI core
Wire: Enamelled copper
Terminal: Ag/Ni/Sn
Rated Current: Ind. drop 35 % typ. at Isat
Temp. Rise: 30 °C max. at rated Irms
Packaging: 600 pcs. per reel

Product Dimensions

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**SRU6025 Series - Shielded SMD Power Inductors**

### Core Loss vs. Flux Density

![Core Loss vs. Flux Density Graph](image)

**Packaging Specifications**

![Packaging Diagram](image)

**REV. 03/18**

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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