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

SRU1028 Series - Shielded SMD Power Inductors

**Electrical Specifications @ 25 °C**

<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 Min. (MHz)</th>
<th>RDC (mΩ)</th>
<th>I rms Max. (A)</th>
<th>I sat Typ. (A)</th>
<th><strong>K-Factor</strong></th>
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<tr>
<td>SRU1028-1R0Y</td>
<td>1.0 ±30</td>
<td>14</td>
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</table>

**Core Loss vs. Flux Density**

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

**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
- Moisture Sensitivity Level: ..........1
- ESD Classification (HBM): ............N/A

**Materials**
- Core................Ferrite DR and RI core
- Wire..................Enameled copper
- Terminal......Ag/Ni/Sn
- Rated Current
- Ind. drop 35 % typ. at Isat
- Temperature Rise
- 40 °C max. at rated Irms
- Packaging.........................1000 pcs. per reel

**Product Dimensions**

**Recommended Layout**

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

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SRU1028 Series - Shielded SMD Power Inductors

Electrical Schematic

Inductor Connection

Packaging Specifications

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