Features
- Available in E6 series
- Low unit height of 3.3 mm
- High current
- RoHS compliant*

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

SRR0603 Series - Shielded Power Inductors

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. 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.

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

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance 1 KHz</th>
<th>µH</th>
<th>Tol. %</th>
<th>Q Ref.</th>
<th>Test Frequency (MHz)</th>
<th>SRF Min. (MHz)</th>
<th>RDC Max. (Ω)</th>
<th>Irms Max. (A)</th>
<th>I sat Typ. (A)</th>
<th>**K-Factor</th>
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<tbody>
<tr>
<td>SRR0603-1R5ML</td>
<td>1.5 ± 20</td>
<td>20</td>
<td>0.032</td>
<td>2.20</td>
<td>3.50</td>
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<tr>
<td>SRR0603-2R5ML</td>
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<td>0.040</td>
<td>2.00</td>
<td>2.95</td>
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<td>1.75</td>
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<td>0.18</td>
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<td></td>
<td>**K-Factor</td>
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</tbody>
</table>

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Materials
- Core: Ferrite DR & RI Wire: Enamelled copper
- Base: LCP E4008
- Rated Current: Ind. drop of 10 % typ. at Isat
- Temp. Rise: 40 °C max. at rated Irms
- Packaging: 1000 pcs. per reel

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Recommended Layout

Schematic

Dimensions: MM

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

**SRR0603 Series - Shielded Power Inductors**

### Core Loss vs. Flux Density

![Graph showing Core Loss vs. Flux Density]

### Packaging Specifications

![Diagram of packaging specifications]

**REV. 04/19**

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