**Features**
- Available in E6 series
- Low height of only 4.8 mm
- High I rms of 4.0 amps
- RoHS compliant*

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

---

**SDR1105 Series - SMD Power Inductors**

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance 1 kHz (µH)</th>
<th>RDC Max. (Ω)</th>
<th>I rms Max. (A)</th>
<th>I sat Typ. (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDR1105-100ML</td>
<td>± 20 10</td>
<td>0.045</td>
<td>4.00</td>
<td>8.0</td>
</tr>
<tr>
<td>SDR1105-120ML</td>
<td>± 20 12</td>
<td>0.048</td>
<td>3.80</td>
<td>8.0</td>
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<tr>
<td>SDR1105-150ML</td>
<td>± 20 15</td>
<td>0.052</td>
<td>3.50</td>
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<tr>
<td>SDR1105-180ML</td>
<td>± 20 18</td>
<td>0.070</td>
<td>3.30</td>
<td>7.0</td>
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<tr>
<td>SDR1105-220ML</td>
<td>± 20 22</td>
<td>0.080</td>
<td>3.00</td>
<td>6.5</td>
</tr>
<tr>
<td>SDR1105-270ML</td>
<td>± 20 27</td>
<td>0.090</td>
<td>2.80</td>
<td>5.0</td>
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<tr>
<td>SDR1105-330KL</td>
<td>± 10 33</td>
<td>0.100</td>
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<tr>
<td>SDR1105-390KL</td>
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<td>SDR1105-470KL</td>
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<td>0.170</td>
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<tr>
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<td>0.200</td>
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<td>0.210</td>
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<td>0.300</td>
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<tr>
<td>SDR1105-101KL</td>
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<td>0.320</td>
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<tr>
<td>SDR1105-151KL</td>
<td>± 10 150</td>
<td>0.500</td>
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<td>2.3</td>
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<tr>
<td>SDR1105-201KL</td>
<td>± 10 200</td>
<td>0.650</td>
<td>1.00</td>
<td>1.8</td>
</tr>
</tbody>
</table>

**General Specifications**

- Test Frequency: 1 KHz
- 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

**Materials**

- Core: Ferrite DR
- Wire: Enameled copper
- Base: FR-4
- Terminal: Cu/Ni/Au

**Rated Current**

- Ind. drop 10 % typ. at Isat

**Temperature Rise**

- 40 °C max. at rated I rms

**Packaging**

- 800 pcs. per reel

**Recommended Layout**

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

*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

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