**Features**
- Available in E6 values
- Current rating to 3.0 amps
- 3.0 mm height
- RoHS compliant*

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

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**SDR1030 Series - SMD Power Inductors**

### Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance 100 kHz (μH)</th>
<th>Q Typ.</th>
<th>Test Frequency (MHz)</th>
<th>SRF Min. (MHz)</th>
<th>RDC Max. (Ω)</th>
<th>I rms Max. (A)</th>
<th>I sat Typ. (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDR1030-2R7M</td>
<td>2.7 ± 0</td>
<td>13</td>
<td>7.96</td>
<td>73.6</td>
<td>0.028</td>
<td>3.0</td>
<td>4.20</td>
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<td>SDR1030-4R7M</td>
<td>4.7 ± 0</td>
<td>13</td>
<td>7.96</td>
<td>49.5</td>
<td>0.040</td>
<td>2.60</td>
<td>3.50</td>
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<tr>
<td>SDR1030-6R8M</td>
<td>6.8 ± 0</td>
<td>15</td>
<td>7.96</td>
<td>38.1</td>
<td>0.052</td>
<td>2.20</td>
<td>2.80</td>
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<tr>
<td>SDR1030-100M</td>
<td>10.0 ± 0</td>
<td>15</td>
<td>2.52</td>
<td>33.1</td>
<td>0.064</td>
<td>2.00</td>
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<tr>
<td>SDR1030-150M</td>
<td>15.0 ± 0</td>
<td>18</td>
<td>2.52</td>
<td>25.7</td>
<td>0.100</td>
<td>1.65</td>
<td>1.85</td>
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<tr>
<td>SDR1030-220M</td>
<td>22.0 ± 0</td>
<td>20</td>
<td>2.52</td>
<td>22.3</td>
<td>0.145</td>
<td>1.38</td>
<td>1.60</td>
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<td>SDR1030-330M</td>
<td>33.0 ± 0</td>
<td>16</td>
<td>2.52</td>
<td>16.4</td>
<td>0.220</td>
<td>1.10</td>
<td>1.25</td>
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<tr>
<td>SDR1030-470M</td>
<td>47.0 ± 0</td>
<td>10</td>
<td>2.52</td>
<td>14.2</td>
<td>0.270</td>
<td>0.96</td>
<td>1.10</td>
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<td>SDR1030-680M</td>
<td>68.0 ± 0</td>
<td>12</td>
<td>2.52</td>
<td>12.2</td>
<td>0.360</td>
<td>0.82</td>
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<td>SDR1030-101K</td>
<td>100.0 ± 0</td>
<td>14</td>
<td>0.796</td>
<td>9.3</td>
<td>0.540</td>
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<td>SDR1030-151K</td>
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<td>23</td>
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<td>7.9</td>
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<td>SDR1030-221K</td>
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<tr>
<td>SDR1030-331K</td>
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<td>25</td>
<td>0.796</td>
<td>5.1</td>
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<tr>
<td>SDR1030-471K</td>
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<td>0.796</td>
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<tr>
<td>SDR1030-681K</td>
<td>680.0 ± 0</td>
<td>18</td>
<td>0.796</td>
<td>3.2</td>
<td>3.300</td>
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<tr>
<td>SDR1030-102K</td>
<td>1000.0 ± 0</td>
<td>42</td>
<td>0.252</td>
<td>2.5</td>
<td>4.700</td>
<td>0.20</td>
<td>0.23</td>
</tr>
</tbody>
</table>

### Materials
- Core: Ferrite DR
- Wire: Enamelled copper wire 130
- Terminal: Cu/Sn
- Rated Current: Ind. drop 10 % typ. at Isat
- Temperature Rise: 30 °C max. at rated Irms

### General Specifications
- Test Voltage: 0.1 V
- Reflow Soldering: 230 °C, 50 sec. max.
- Operating Temperature: -40 °C to +125 °C
- Storage Temperature: -40 °C to +125 °C
- Moisture Sensitivity Level: 1
- ESD Classification (HBM): N/A

### Recommended Layout

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**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
SDR1030 Series - SMD Power Inductors

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