Features
- Available in E6 values
- Range from 1.0 µH to 1000 µH
- RoHS compliant*

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

SDR7030 Series - SMD Power Inductors

Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance (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>
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</thead>
<tbody>
<tr>
<td>SDR7030-1R0M</td>
<td>1.0 ± 20</td>
<td>18</td>
<td>7.96</td>
<td>113</td>
<td>0.022</td>
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<td>SDR7030-1R5M</td>
<td>1.5 ± 20</td>
<td>17</td>
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<td>100</td>
<td>0.027</td>
<td>2.75</td>
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<td>SDR7030-2R2M</td>
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<td>7.96</td>
<td>80</td>
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<td>SDR7030-4R7M</td>
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<td>SDR7030-6R2M</td>
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<td>0.058</td>
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<td>SDR7030-220M</td>
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<td>SDR7030-330M</td>
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<td>0.230</td>
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<td>SDR7030-680K</td>
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<td>SDR7030-151K</td>
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<td>SDR7030-331K</td>
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<td>0.796</td>
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<td>6.200</td>
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</table>

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

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
- Packaging ..................................... 1500 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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