Features
- Shielded construction
- Unit height of 5.0 mm
- Inductance range: 0.10 μH to 0.2 μH
- Current up to 40 A
- RoHS compliant*

The SRP1050 Series is obsolete and not recommended for new designs.

SRP1050 Series - Shielded Power Inductors

Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance L (μH)</th>
<th>Test Frequency (Hz)</th>
<th>I rms (A)</th>
<th>I sat (A) max.</th>
<th>DCR (mΩ) max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP1050-R10M</td>
<td>0.10 ± 20 %</td>
<td>1 M</td>
<td>40</td>
<td>50</td>
<td>0.65</td>
</tr>
<tr>
<td>SRP1050-R15M</td>
<td>0.15 ± 20 %</td>
<td>1 M</td>
<td>40</td>
<td>42</td>
<td>0.65</td>
</tr>
<tr>
<td>SRP1050-R20M</td>
<td>0.20 ± 20 %</td>
<td>1 M</td>
<td>30</td>
<td>40</td>
<td>0.65</td>
</tr>
</tbody>
</table>

L vs. I Charts

Electrical Schematic

General Specifications

Test Voltage: 0.1 V
Test Frequency: 1 MHz
Reflow Soldering: 230 °C; 50 sec max.
Operating Temperature: -55 °C to +150 °C
(temperature rise included)
Storage Temperature: -55 °C to +150 °C

Materials

Core: Ferrite
Wire: Enamelled copper
Terminal: Cu/Sn
Rated Current: Ind. drops 20 % at I sat
Temperature Rise: 40 °C at rated I rms
Packaging: 900 pcs. per 13-inch reel

Recommended Layout

Electrical Schematic
Applications
■ Input/output of DC/DC converters
■ Power supplies for:
  • Portable communications equipment
  • Camcorders
  • LCD TVs
  • Car audio systems

SRP1050 Series - Shielded Power Inductors

Soldering Profile

Packaging Specifications

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.