SRP7050 Series - Shielded Power Inductors

**Features**
- Shielded construction
- Unit height of 5.0 mm
- Inductance range: 0.1 µH to 0.2 µH
- Current up to 30 A
- RoHS compliant*

---

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance L (µH)</th>
<th>Test Frequency (Hz)</th>
<th>I rms (A) max.</th>
<th>I sat (A) max.</th>
<th>DCR (mΩ) max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP7050-R10Y</td>
<td>0.10 ± 30 %</td>
<td>0.25 V / 1M</td>
<td>30</td>
<td>37</td>
<td>0.50</td>
</tr>
<tr>
<td>SRP7050-R15Y</td>
<td>0.15 ± 30 %</td>
<td>0.25 V / 1M</td>
<td>24</td>
<td>30</td>
<td>0.50</td>
</tr>
<tr>
<td>SRP7050-R20Y</td>
<td>0.20 ± 30 %</td>
<td>0.25 V / 1M</td>
<td>19</td>
<td>24</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Soldering Profile**

- Maximum of 10 seconds between +255 °C and +260 °C
- 220 °C: 60 seconds maximum
- 150 °C: 10 seconds minimum
- Ramp Up 4 °C/second maximum
- 260 °C peak

---

**General Specifications**

- Test Voltage: 0.25 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: Iron
- Wire: Enameled 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**

---

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

---

The SRP7050 Series is obsolete and not recommended for new designs.
Applications
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Camcorders
  - LCD TVs
  - Car audio systems

SRP7050 Series - Shielded Power Inductors

L vs. I Charts

Packaging Specifications

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