Features
- Shielded construction
- Unit height of 8.0 mm
- Inductance range: 0.15 \( \mu \)H to 0.44 \( \mu \)H
- Current up to 50 A
- RoHS compliant*

The SRP1280 Series is obsolete and not recommended for new designs.

SRP1280 Series - Shielded Power Inductors

Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance L (( \mu )H)</th>
<th>Test Frequency (Hz)</th>
<th>I rms (A) max.</th>
<th>I sat (A) max.</th>
<th>DCR (m( \Omega )) max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP1280-R15Y</td>
<td>0.15 ± 30 %</td>
<td>0.1 V / 500K</td>
<td>50</td>
<td>55</td>
<td>0.60</td>
</tr>
<tr>
<td>SRP1280-R21M</td>
<td>0.21 ± 20 %</td>
<td>0.1 V / 500K</td>
<td>45</td>
<td>50</td>
<td>0.60</td>
</tr>
<tr>
<td>SRP1280-R26M</td>
<td>0.26 ± 20 %</td>
<td>0.1 V / 500K</td>
<td>40</td>
<td>45</td>
<td>0.60</td>
</tr>
<tr>
<td>SRP1280-R32M</td>
<td>0.32 ± 20 %</td>
<td>0.1 V / 500K</td>
<td>40</td>
<td>41</td>
<td>0.60</td>
</tr>
<tr>
<td>SRP1280-R44M</td>
<td>0.44 ± 20 %</td>
<td>0.1 V / 500K</td>
<td>28</td>
<td>30</td>
<td>0.60</td>
</tr>
</tbody>
</table>

General Specifications
- Test Voltage: 0.1 V
- Test Frequency: 500 KHz
- Reflow Soldering: 230 °C; 50 sec max.
- Operating Temperature: -55 °C to +150 °C
- Storage Temperature: -55 °C to +150 °C

Materials
- Core: Ferrite
- Wire: Enameled copper
- Terminal: Cu/Sn
- Rated Current: Ind. drops 20 % at I sat
- Temperature Rise: 40 °C at rated I rms
- Packaging: 400 pcs. per 13-inch reel

Product Dimensions

Recommended Layout

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

SRP1280 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.