### Features
- Shielded construction
- Unit height of 7.0 mm max.
- Current up to 41 A
- RoHS compliant*

### SRP1270 Series - Shielded Power Inductors

#### Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance L (μH) ±20 %</th>
<th>I rms (A)</th>
<th>I sat (A)</th>
<th>DCR (mΩ) Max.</th>
<th>SRF (MHz) Typ.</th>
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<td>SRP1270-R32M</td>
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#### Soldering Profile

- **<1>** Maximum of 10 seconds between +255 °C and +260 °C
- **<2>** 255 °C
- **260 °C peak**
- **120-150 seconds maximum**
- **10 seconds minimum**

#### Electrical Schematic

![Electrical Schematic](image)

### General Specifications

- **Test Voltage**: 1.0 V
- **Test Frequency**: 100 KHz
- **Reflow Soldering**: 230 °C; 50 sec. max.
- **Ramping Up**: 4 °C/second maximum
- **Ramping Down**: 5 °C/second
- **Temperature Rise**: +40 °C at rated Irms
- **Moisture Sensitivity Level**: 1
- **ESD Classification (HBM)**: N/A

#### Materials
- Core: Iron
- Wire: Enamed copper
- Adhesive: Epoxy resin
- Terminal: Ag/Ni/Sn
- Rated Current: Ind. drops 20 % at Isat
- Temperature Rise: +40 °C at rated Irms

### Test Voltage

- **230 °C; 50 sec. max.**

### Recommended Layout

![Recommended Layout](image)
Applications

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

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Users should verify actual device performance in their specific applications.
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