SRP1245CC Series - Shielded Power Inductors

**Features**
- Shielded construction
- Carbonyl powder core
- High saturation current
- Low radiation
- Low buzz noise
- RoHS compliant* and halogen free**

**Additional Information**
Click these links for more information:
- PRODUCT SELECTOR
- TECHNICAL LIBRARY
- INVENTORY
- SAMPLES
- CONTACT

**General Specifications**
- Operating Temperature: -40 °C to +125 °C (Temperature rise included)
- Storage Temperature (Component): -40 °C to +125 °C
- Temperature Rise: 40 °C at rated Irms
- Rated Current
- Moisture Sensitivity Level: 1
- ESD Classification (HBM): N/A

**Materials**
- Core: Carbonyl powder
- Wire: Enamelled copper
- Terminal Finish: Sn

**Soldering Profile**

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 100 kHz / 1 V L (μH)</th>
<th>Tol. %</th>
<th>Q Min.</th>
<th>SRF (MHz)</th>
<th>DCR (mΩ)</th>
<th>DCR (mΩ)</th>
<th>Irms (A)</th>
<th>Isat (A)</th>
<th>Terminal Type</th>
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<tbody>
<tr>
<td>SRP1245CC-R15M</td>
<td>0.15</td>
<td>20</td>
<td>30</td>
<td>175</td>
<td>0.36</td>
<td>0.41</td>
<td>55</td>
<td>100</td>
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<td>20</td>
<td>120</td>
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<td>0.55</td>
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<td>20</td>
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**Pb Free Assembly**
- Preheat
  - Temperature Min. (Tmin) 150 °C
  - Temperature Max. (Tmax) 200 °C
  - Time (ts) from Tmin to Tmax 60-120 seconds
- Ramp-up Rate (TL to TP) 3 °C/second max.
- Liquidous temperature (Tl) 217 °C
- Time (tl) maintained above TL 60-150 seconds
- Peak package body temperature (TP) 245 °C
- Time within 5 °C of Actual Peak Temperature (tp) <30 seconds
- Ramp-Down Rate (TP to TL) 6 °C/second max.
- Time 25 °C to Peak Temperature 8 minutes max.

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WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov

** Bourns considers a product to be “halogen free” if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.
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**Product Dimensions**

**Lead Frame Terminal**

**Non-Lead Frame Terminal**

**Recommended Layout**

**Electrical Schematic**

**How to Order**

**Specifications**

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Packaging Specifications

Dimensions: MM (INCHES)

QTY: 500 PCS. PER REEL

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