Features
- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.20 to 22 µH
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP1245A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 KHz / 1 V</th>
<th>Q (Min.) @ 100 KHz / 1 V</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>IRms (A)</th>
<th>Isat (A)</th>
<th>Terminal Type</th>
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<tbody>
<tr>
<td>SRP1245A-R20M</td>
<td>0.20 20 10 130 0.45 0.55 52 110</td>
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</tbody>
</table>

General Specifications
- Test Voltage .................. 1.0 V
- Test Frequency .......... 100 KHz
- Operating Temperature .............. -55 °C to +150 °C
- Storage Temperature .. -55 °C to +125 °C
- Inductance drops 20% at Isat Temperature Rise .... 40 °C at rated Irms
- Resistance to Soldering Heat ........... +260 °C, 40 sec. max.
- Moisture Sensitivity Level .............. 1
- ESD Classification (HBM) ................ N/A

SRP1245A - 100M

How to Order
Model __________ Value Code (see table) __________

Recommended Layout

Please consult Bourns® Model SRP-A Series Visual Inspection Guide for detailed construction, processing and testing information.

** 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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SRP1245A Series - Shielded Power Inductors

L vs. I Charts

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SRF0504 Series - Line Filter
SRP1245A Series - Shielded Power Inductors

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Soldering Profile

PRE-HEATING
Temperature (°C)
25
150
200
217
Ip (245 °C / 20 – 40 seconds)
Ip (260 °C / 10 seconds max.)

SOLDERING
60 - 180 seconds

NATURAL COOLING
80 - 150 seconds
480 seconds max.

REFLOW TIMES: 3 MAX.

Electrical Schematic

Packaging Specifications

DIMENSIONS: MM (INCHES) QTY: 500 PCS. PER REEL

REV. 05/19
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