SRU1048A Series - Shielded Power Inductors

Features
- Shielded construction
- Inductance range: 1.5 to 330 µH
- Heating current up to 7 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 KHz / 1 V L (µH)</th>
<th>Tol. (%)</th>
<th>Test Freq. (MHz) Q (Ref.)</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>I rms (A)</th>
<th>I sat (A)</th>
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<tr>
<td>SRU1048A-1R5Y</td>
<td>1.5</td>
<td>±30</td>
<td>14</td>
<td>7.96</td>
<td>70</td>
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<td>55</td>
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<td>640</td>
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General Specifications

Operating Temperature.............................................40 °C to +125 °C (Temperature rise included)
Storage Temperature.............................................40 °C to +125 °C
Resistance to Soldering Heat....................................+245 °C for 10 sec.
Temperature Rise..............................................30 °C typ. at rated I rms
Inductance Drop...................................................35 % typ. at I sat

Materials

Core..............................................Ferrite
Wire.................................................Enamelled copper
Terminal Finish...........................................Ag/Ni/Sn
Packaging.............................................600 pcs. per reel

Product Dimensions

How to Order

SRU1048A - 100Y
Model
Value Code (see table)

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.
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf
SRU1048A Series - Shielded Power Inductors

Soldering Profile

Inductance vs. DC Current Plot

Packaging Specifications

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