SRP8040 Series - Shielded Power Inductors

Features
- Shielded construction
- Unit height of 4.2 mm
- Inductance range: 0.10 μH to 0.22 μH
- Current up to 35 A
- RoHS compliant*

Electrical Specifications

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance (μH)</th>
<th>IDC (A)</th>
<th>RDC (mΩ) max.</th>
<th>RDC (mΩ) typ.</th>
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</thead>
<tbody>
<tr>
<td>SRP8040-R10Y</td>
<td>0.10 ± 30 %</td>
<td>35.0</td>
<td>0.65</td>
<td>0.49</td>
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<tr>
<td>SRP8040-R22Y</td>
<td>0.22 ± 30 %</td>
<td>25.0</td>
<td>0.65</td>
<td>0.49</td>
</tr>
</tbody>
</table>

SRP8040-R10Y: IDC based on inductance drop 10% typical of L value at 20 °C.
SRP8040-R22Y: IDC based on inductance drop 30% typical of L value at 20 °C.

General Specifications
- Test Voltage: 1.0 V
- Test Frequency: 100 KHz
- Reflow Soldering: 230 °C; 50 sec max.
- Operating Temperature: -55 °C to +150 °C (Temperature rise included)
- Storage Temperature: -55 °C to +150 °C

Materials
- Core: Ferrite
- Wire: Tinned copper
- Terminal: Cu/Sn

Rated Current
- See Electrical Specifications
- Temperature Rise: 40 °C at rated I rms
- Packaging: 1000 pcs. per 13-inch reel

Recommended Layout

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
SRP8040 Series - Shielded Power Inductors

L vs. I Charts

SRP8040-R10Y

DC Current (A) vs. Temperature Rise (°C)

SRP8040-R22Y

DC Current (A) vs. Temperature Rise (°C)

Packaging Specifications

Dimensions: MM (INCHES)

EMBOSSED CARRIER

EMBOSSED CAVITY

THICKNESS 0.15 (0.006) MAX

DIA. 13.0 (.51)

DIA. 26.0 (1.02)

DIA. 20.4 (0.80)

MIN. NO COMPONENT 400 (15.748) MIN

COMPONENTS

NO COMPONENT 160 (6.299) MIN

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