SRF9045A Series - Common Mode Chokes

Features
- Shielded construction – low radiation
- Separated winding
- High current
- Compact size
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Applications
- EMI suppression – power line
- Noise filters – power line

Electrical Specifications at 25 °C

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Z (Ω) @ 100 MHz</th>
<th>L (µH), N1/N2 Ref. @ 100 kHz / 0.1 V</th>
<th>DCR (mΩ), N1/N2, Max.</th>
<th>Irms (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRF9045A-701Y</td>
<td>500</td>
<td>700</td>
<td>7.5</td>
<td>10</td>
</tr>
</tbody>
</table>

Soldering Profile

- Peak Temperature: 250 °C max.
- Max. Peak Temperature: 250 °C at 5 °C, 30 sec. max.
- Operating Temperature: -40 °C to +125 °C

General Specifications
- Rated Voltage: 80 VDC
- Hi-Pot: 500 VAC, 3 mA, 1 Sec.
- Insulation Resistance: N/A
- Operating Temperature: -40 °C to +125 °C
- Storage Temperature: -40 °C to +125 °C
- Operating Temperature Rise: 40 °C at rated Irms
- MSL: 1
- ESD Classification (HBM): N/A

Materials
- Core: Ferrite
- Wire: Enameled copper
- Terminal Finish: Sn
- Packaging: 1000 pcs. per 13-inch reel

Recommended Layout

Electrical Schematic

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 800 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.
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Typical Impedance vs. Frequency Curves

Temperature Rise Plots

Packaging Specifications

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