**Features**
- Shielded construction – low radiation
- Bifilar wound
- Impedance range: 67 to 360 ohms @ 100 MHz
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

**Applications**
- EMI suppression for:
  - Data and signal lines
  - CANbus
  - Automotive electronics
  - Consumer electronics
  - Telecom devices

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**SRF2012AA Series - Common Mode Chip Inductors**

**Electrical Specifications @ 25 °C**

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Impedance @ 100 MHz / 1 V (Ω)</th>
<th>Tolerance (%)</th>
<th>DCR Typ. (Ω)</th>
<th>DCR Max. (Ω)</th>
<th>Irms (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRF2012A-670YA</td>
<td>67 ± 25</td>
<td>±25</td>
<td>0.15</td>
<td>0.25</td>
<td>400</td>
</tr>
<tr>
<td>SRF2012A-900YA</td>
<td>90 ± 25</td>
<td>±25</td>
<td>0.16</td>
<td>0.30</td>
<td>400</td>
</tr>
<tr>
<td>SRF2012A-121YA</td>
<td>120 ± 25</td>
<td>±25</td>
<td>0.20</td>
<td>0.30</td>
<td>400</td>
</tr>
<tr>
<td>SRF2012A-161YA</td>
<td>160 ± 25</td>
<td>±25</td>
<td>0.25</td>
<td>0.35</td>
<td>350</td>
</tr>
<tr>
<td>SRF2012A-181YA</td>
<td>180 ± 25</td>
<td>±25</td>
<td>0.25</td>
<td>0.35</td>
<td>350</td>
</tr>
<tr>
<td>SRF2012A-201YA</td>
<td>200 ± 25</td>
<td>±25</td>
<td>0.30</td>
<td>0.40</td>
<td>300</td>
</tr>
<tr>
<td>SRF2012A-221YA</td>
<td>220 ± 25</td>
<td>±25</td>
<td>0.30</td>
<td>0.40</td>
<td>300</td>
</tr>
<tr>
<td>SRF2012A-261YA</td>
<td>260 ± 25</td>
<td>±25</td>
<td>0.35</td>
<td>0.40</td>
<td>300</td>
</tr>
<tr>
<td>SRF2012A-361YA</td>
<td>360 ± 25</td>
<td>±25</td>
<td>0.45</td>
<td>0.50</td>
<td>300</td>
</tr>
</tbody>
</table>

**General Specifications**
- Rated Voltage ....................... 50 VDC
- Withstanding Voltage ............... 125 VDC
- Insulation Resistance ............... 10 megoohms min. @ 100 VDC
- Operating Temperature ............... 40 °C to +125 °C (Temperature rise included)
- Storage Temperature ............... 40 °C to +125 °C
- Temperature Rise ......20 °C at rated Irms

**Materials**
- Core ......................... Ferrite
- Wire ................... Enameled copper
- Terminal Finish .................Sn
- Packaging ............ 2000 pcs. per 7-inch reel

**Product Dimensions**

**Soldering Profile**

**How to Order**

<table>
<thead>
<tr>
<th>Model</th>
<th>Value Code (see table)</th>
<th>Tolerance Code</th>
<th>Model Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRF2012A - 201YA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Recommended Layout**

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**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.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.
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Typical Impedance vs. Frequency Curves (Continued)

Packaging Specifications

Dimensions: MM (INCHES)

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08/15