**SRF2012A Series - Common Mode Chip Inductors**

**Features**
- Shielded construction – low radiation
- Bifilar wound
- Use with Chip LAN transformers SM453229-231N7Y and SM453229-381N7Y
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

**Electrical Specifications at 25 °C**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Impedance @ 100 MHz / 1 V (Ω)</th>
<th>Tolerance (%)</th>
<th>Rated Voltage (VDC) Max.</th>
<th>Withstand Voltage (VDC) Max.</th>
<th>Insulation Resistance (Ω) Min.</th>
<th>DCR Max. (Ω)</th>
<th>Irms (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRF2012A-801Y</td>
<td>800 ± 25</td>
<td>100</td>
<td>250</td>
<td>10 M</td>
<td>0.88</td>
<td>300</td>
<td></td>
</tr>
</tbody>
</table>

**Soldering Profile**

- **PRE-HEATING**
  - Temperature (°C) 25
  - Time (Seconds) 480 max.
- **SOLDERING**
  - Temperature (°C) 217
  - Time (Seconds) 60 - 150
- **NATURAL COOLING**
  - Temperature (°C) 10
  - Time (Seconds) 60 - 180

**Reflow Times: 3 Max.**

**General Specifications**

- Max. Rated Voltage ................. 100 VDC
- Max. Withstanding Voltage ...... 250 VDC
- Insulation Resistance .............. 10 MΩ (Min.) @ 100 VDC
- Operating Temperature ................. –55 °C to +125 °C (Temperature rise included)
- Storage Temperature ................. –55 °C to +125 °C
- Temperature Rise .....20 °C at rated Irms

**Materials**

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

**Product Dimensions**

**Schematic**

1. \[ \text{Symbol} \]
2. \[ \text{Symbol} \]
3. \[ \text{Symbol} \]
4. \[ \text{Symbol} \]

**Recommended Layout**

1. \[ \text{Symbol} \]
2. \[ \text{Symbol} \]
3. \[ \text{Symbol} \]
4. \[ \text{Symbol} \]

**DIMENSIONS:** MM (INCHES)

**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.
Typical Impedance vs. Frequency Curves

Packaging Specifications

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