SMT Common Mode Chokes – SBU9

- Low profile, surface mount design
- Ideal for switching power supplies
- Eliminates most line conducted common mode noise.
- Provides significant attenuation of common mode noise across a broad range of frequencies.

**Core material**: Ferrite  
**Terminations**: RoHS compliant tin-silver over copper.  
**Weight**: 2.4 – 2.7 g

**Ambient temperature**: –40°C to +125°C
**Storage temperature**: Component: –40°C to +125°C.  
**Moisture Sensitivity Level (MSL)**: 1 (unlimited floor life at <30°C / 85% relative humidity)

**Packaging**: 350/13″ reel; Plastic tape: 32 mm wide, 0.5 mm thick, 20 mm pocket spacing, 8.5 mm pocket depth

**PCB washing**: Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

### Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Common mode peak impedance (kOhms)</th>
<th>Inductance^2 (mH)</th>
<th>IRms^3 (A)</th>
<th>DCR max^4 (Ohms)</th>
<th>Isolation^5 (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBU9-103R25L_</td>
<td>94.40 @ 230 kHz</td>
<td>10</td>
<td>0.25</td>
<td>2.5</td>
<td>1500</td>
</tr>
<tr>
<td>SBU9-2820R5L_</td>
<td>26.31 @ 570 kHz</td>
<td>2.8</td>
<td>0.50</td>
<td>0.70</td>
<td>1500</td>
</tr>
<tr>
<td>SBU9-1320R7L_</td>
<td>12.68 @ 900 kHz</td>
<td>1.3</td>
<td>0.70</td>
<td>0.38</td>
<td>1500</td>
</tr>
<tr>
<td>SBU9-6011R0L_</td>
<td>6.66 @ 1300 kHz</td>
<td>0.6</td>
<td>1.00</td>
<td>0.20</td>
<td>1500</td>
</tr>
</tbody>
</table>

1. When ordering, please specify packaging code:  
**SBU9-6011R0LD**

**Packaging**:
- **D** = 13″ machine-ready reel. EIA-481 embossed plastic tape 350 parts per full reel. Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
- **B** = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.

2. Inductance tested at 1 kHz, 1 Vrms, 0 A dc on an Agilent/HP 4284A LCR-meter or equivalent.
3. Current per winding that causes a 40°C rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
4. DCR is specified per winding.
5. Isolation (hipot) measured with 3 mA applied for two seconds.

**Recommended Land Pattern**

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*Note:* This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.
Common Mode Chokes – SBU9 Series

Typical Attenuation (Ref 50 Ohms)

Typical Impedance