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  
**Terminiations**  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.  
Tape and reel packaging: -40°C to +80°C  
**Moisture Sensitivity Level (MSL)**  1 (unlimited floor life at <30°C / 85% relative humidity)  
**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**  38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332  
**PCB washing**  Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number1</th>
<th>Common mode peak impedance (kOhms)</th>
<th>Inductance2</th>
<th>Irms3</th>
<th>DCR max4</th>
<th>Isolation5</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: 

   **Packaging:**  
   D = 13” machine-ready reel. EIA-481 embossed plastic tape 350 parts per full reel).  
   B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

2. Inductance tested at 1 kHz, 1 Vrms, 0 Adc 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.
6. Electrical specifications at 25°C.
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.
Common Mode Chokes – SBU9 Series

Typical Attenuation (Ref 50 Ohms)

Typical Impedance

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.