Coaxial Bandpass Filter

SBP-10.7+

50Ω Elliptic Response 9.5 to 11.5 MHz

**Maximum Ratings**
- Operating Temperature: -55°C to 100°C
- Storage Temperature: -55°C to 100°C
- RF Power Input: 0.6 W max.

**Features**
- Low insertion loss, 1.5 dB max.
- Good selectivity, 1.76 typ. 20 dB / 3dB BW ratio
- Rugged shielded case

**Applications**
- High rejection applications
- Image rejection
- IF signal processing

**Typical Performance Data**

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Insertion Loss (dB)</th>
<th>Return Loss (dB)</th>
<th>Group Delay (nsec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.7</td>
<td>9.5-11.5</td>
<td>8.9-12.7</td>
<td>7.5 &amp; 15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.6 &amp; 50-1000</td>
</tr>
</tbody>
</table>

**Outline Drawing**

SMA MALE CONN

SMA FEMALE CONN

**Outline Dimensions (mm)**

B D E wt

17.02 50.29 7.92 42.0 grams

0.67 1.98 .312 grams

**Bandpass Filter Electrical Specifications**

<table>
<thead>
<tr>
<th>CENTER FREQUENCY (MHz)</th>
<th>PASSBAND (MHz)</th>
<th>3dB BANDWIDTH (MHz)</th>
<th>STOPBANDS</th>
<th>VSWR</th>
</tr>
</thead>
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**Notes:**
1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form part of this specification sheet.
2. Electrical specifications and performance data contained herein are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits’ website at www.minicircuits.com/MCLStore/terms.jsp.
4. +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

**Mini-Circuits**

ISO 9001 ISO 14001 AS 9100 CERTIFIED

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