4 Section Bandpass Filter With SMA Female Connectors Operating From 1.71 GHz to 1.77 GHz With a 60 MHz Passband

Bandpass Filters Technical Data Sheet

Features
- Pass band of 60 MHz
- 1.71 to 1.77 GHz
- Four section
- Combline filter design
- Minimum 50 dB rejection at 1.49 GHz and 1.99 GHz (about 220 MHz from band edge)
- Maximum insertion loss of 1.5 dB
- Female SMA connectors

Applications
- UMTS/AWS

Description
The PE8710 is a four section band pass filter that is useful for filtering for UMTS/AWS uses. The pass band is 60 MHz, or 1.71 to 1.77 GHz. Implementing a combline design, the filter has excellent minimum rejection of 50 dB at 1.49 GHz and 1.99 GHz, or about 220 MHz from the band edges. It has a maximum insertion loss of 1.5 dB. The PE8710 has SMA Female connectors.

Electrical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passband Frequency</td>
<td>1.71</td>
<td>1.77</td>
<td></td>
<td>GHz</td>
</tr>
<tr>
<td>Impedance</td>
<td></td>
<td>50</td>
<td></td>
<td>Ohms</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td></td>
<td>1.5</td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Passband VSWR</td>
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<td>1.5:1</td>
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</tr>
<tr>
<td>Rejection at 1.49 GHz</td>
<td>50</td>
<td></td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Rejection at 1.99 GHz</td>
<td>50</td>
<td></td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Input Power, CW</td>
<td></td>
<td></td>
<td>5</td>
<td>Watts</td>
</tr>
</tbody>
</table>

Electrical Specification Notes: Values at +25°C, sea level.

Mechanical Specifications

Size
- Length: 1.8 in [45.72 mm]
- Width: 1.4 in [35.56 mm]
- Height: 0.53 in [13.46 mm]
- Weight: 0.125 lbs [56.7 g]

Configuration
- Design: Combline
- Number of Sections: 4
- Package Style: Connectorized Module
- Connector 1: SMA Female
- Connector 2: SMA Female

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 4 Section Bandpass Filter With SMA Female Connectors Operating From 1.71 GHz to 1.77 GHz With a 60 MHz Passband PE8710
4 Section Bandpass Filter With SMA Female Connectors
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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

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PE8710 CAD Drawing
4 Section Bandpass Filter With SMA Female Connectors Operating
From 1.71 GHz to 1.77 GHz With a 60 MHz Passband