4 Section Bandpass Filter With SMA Female Connectors
Operating From 2.4 GHz to 2.5 GHz With a 100 MHz Passband

Bandpass Filters Technical Data Sheet

**Features**
- Pass band of 100 MHz
- 2.4 GHz to 2.5 GHz
- Four section
- Combline filter design
- 50 dB rejection at 2.05 GHz and 2.85 GHz (about 350 MHz from band edge)
- Maximum insertion loss of 1.0 dB
- Female SMA connectors

**Applications**
- ISM
- WiFi
- Bluetooth
- Zigbee

**Description**
The PE8701 is a four section band pass filter that is used for filtering for ISM, WiFi, Bluetooth, and Zigbee uses. The pass band is 100 MHz, or 2.4 to 2.5 GHz. Implementing a combline design, the filter has excellent rejection of 50 dB at 2.05 GHz and 2.85 GHz, or about 350 MHz from the band edges. It has a maximum insertion loss of 1.0 dB. The PE8701 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>2.4</td>
<td>2.5</td>
<td></td>
<td>GHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>50</td>
<td></td>
<td></td>
<td>Ohms</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>1</td>
<td></td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Passband VSWR</td>
<td>1.5:1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rejection at 2.05 GHz</td>
<td>50</td>
<td></td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Rejection at 2.85 GHz</td>
<td>50</td>
<td></td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Input Power, CW</td>
<td>5</td>
<td></td>
<td></td>
<td>Watts</td>
</tr>
</tbody>
</table>

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

**Mechanical Specifications**

**Size**
- Length: 1.06 in [26.92 mm]
- Width: 1.8 in [45.72 mm]
- Height: 0.53 in [13.46 mm]
- Weight: 0.175 lbs [79.38 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 2.4 GHz to 2.5 GHz With a 100 MHz Passband PE8701

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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Environmental Specifications

Compliance Certifications (visit www.Pasternack.com for current document)
RoHS Compliant
REACH Compliant 12/17/2014

Plotted and Other Data
Notes:
• Values at 25°C, sea level.

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URL: http://www.pasternack.com/4-section-band-pass-filter-2.4-2.5-ghz-passband-100-mhz-pe8701-p.aspx

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PE8701 CAD Drawing
4 Section Bandpass Filter With SMA Female Connectors Operating
From 2.4 GHz to 2.5 GHz With a 100 MHz Passband