SURFACE MOUNT BANDPASS FILTER  

**FB-1050SM**

**Features**
- Chebyshev Response
- Typical 3 dB Bandwidth, ± 8.5%
- 50 dB Stop Band Suppression
- 5 Section Filter
- **FB-1050.S2P**
- Reflow Solderable

**Electrical Specifications** – Specifications guaranteed from -55 to +100°C, measured in a 50Ω system.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency (GHz)</th>
<th>Min</th>
<th>Typ.</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency, ( f_c )</td>
<td>10.5</td>
<td></td>
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<tr>
<td>Pass Band</td>
<td>9.6-11.4</td>
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<tr>
<td>Insertion Loss (dB)</td>
<td>10.5</td>
<td>2</td>
<td>3</td>
<td></td>
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<tr>
<td>Return Loss (dB)</td>
<td>9.6-11.4</td>
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<tr>
<td>Stop Band Suppression (dB), Lower</td>
<td>6.3</td>
<td>50</td>
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<tr>
<td>Stop Band Suppression (dB), Upper</td>
<td>14.4</td>
<td>50</td>
<td></td>
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<tr>
<td>Impedance (Ω)</td>
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<tr>
<td>RF Power (W)</td>
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</tbody>
</table>

![Diagram](image)

Substrate material is 10-mil thick Rogers 5880 or Taconic TLY-5, ½ Oz Electrodeposited Cu.

I/O Pads & Ground Plane Finish is 100-300 µ-inches 60/40 Pb/Sn Solder Plate over Cu.

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**FB-1050SM**

### Typical Performance

![Magnitude response for a typical FB-1050SM, measured in a connectorized fixture.](image)

**Model Number** | **Description**  
--- | ---  
FB-1050SM | 10.5 GHz Bandpass Filter, Surface Mount

Connectorized test fixtures available. Consult factory.

**NOTE:**

Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.

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