BANDPASS FILTER

FB-2000

Features

- Low Insertion Loss
- Excellent Return Loss
- High Stop Band Suppression
- Wide Stop Band
- Sharp Roll-Off
- FB-2000.S2P

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 (GHz)</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Passband (GHz)</td>
<td>18.2-21.8 (± 9% of fc)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss @ f_c (dB)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Passband Return Loss (dB)</td>
<td>18.2-21.8</td>
<td>10</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Stopband Suppression (dB)</td>
<td>10.8, 27</td>
<td>40</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13.8, 24.6</td>
<td>25</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Impedance (Ω)</td>
<td></td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RF Power (W)</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (g)</td>
<td></td>
<td>22</td>
<td></td>
<td></td>
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</tbody>
</table>
Typical Performance

**Fig. 1.** Magnitude response for a typical FB-2000.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB-2000</td>
<td>20 GHz Bandpass Filter with SMA Female connectors(^1)</td>
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</table>

\(^1\)Default is SMA female connectors. Consult factory for other connector options.

### Revision History

<table>
<thead>
<tr>
<th>Revision code</th>
<th>Revision Date</th>
<th>Comment</th>
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<tbody>
<tr>
<td>B</td>
<td>3/2021</td>
<td>Updated Specs table &amp; Magnitude plot</td>
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</table>

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

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