FEATURES

- High rejection
- Low insertion loss
- Frequency up to 110 GHz
- Rugged mechanical construction

APPLICATIONS

- Test systems
- Subsystems
- Transceivers

DESCRIPTION

**APPLICATIONS**

PFL series waveguide low pass filters are available in millimeterwave bands to cover the frequency range up to 110 GHz. The high pass nature of waveguide dictates the low end cut off for standard model. Both low end and high end cut off frequencies can be specified as a custom order. In fact, the waveguide low pass filters are the bandpass filters with very broad pass band. They are ideally suited for broad band system applications, such as EW system, instrumentation and harmonic and spurious rejections, etc.

**STANDARD PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>K</th>
<th>Ka</th>
<th>Q</th>
<th>U</th>
<th>V</th>
<th>E</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waveguide</td>
<td>WR-42</td>
<td>WR-28</td>
<td>WR-22</td>
<td>WR-19</td>
<td>WR-15</td>
<td>WR-12</td>
<td>WR-10</td>
</tr>
<tr>
<td>Passband (GHz)</td>
<td>16 to 26.5</td>
<td>22 to 40</td>
<td>28 to 50</td>
<td>33 to 60</td>
<td>42 to 75</td>
<td>50 to 90</td>
<td>62 to 110</td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.2</td>
<td>1.5</td>
<td>1.8</td>
</tr>
<tr>
<td>Rejection Band (GHz)</td>
<td>&lt; 14 &amp; &gt; 33</td>
<td>&lt; 20 &amp; &gt; 47</td>
<td>&lt; 25 &amp; &gt; 56</td>
<td>&lt; 29 &amp; &gt; 66</td>
<td>&lt; 38 &amp; &gt; 80</td>
<td>&lt; 45 &amp; &gt; 98</td>
<td>&lt; 56 &amp; &gt; 118</td>
</tr>
<tr>
<td>Rejection (dB, Min)</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Outline Drawing</td>
<td>WT-E-4</td>
<td>WT-E-4</td>
<td>WT-E-4</td>
<td>WT-E-4</td>
<td>WT-E-4</td>
<td>WT-E-4</td>
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</tbody>
</table>

**CUSTOM ORDER**

Specify Model Number

Example: To order a WR-28 bandpass filter with 38 GHz high end cut off frequency, 45 dB rejection, specify PFL-283845-XX.
**WT-E-1**

WAVEGUIDE W/FLANGE

**FEATURES**
- Rugged configuration
- Smooth adjustment
- Top and bottom plate skid pads
- Four size selections
- Laboratory setup supporting
- Waveguide system supporting

**APPLICATIONS**
WTJ series jacks are offered in four table size to provide total flexibility of waveguide or module supporting or positioning requirements in the laboratory environment. These jacks are engineered for smooth and continuous height adjustment through their height range. They are constructed with chromed steel and anti-skid pads to offer stable, slipping and scratch free support.

**DESCRIPTION**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>WTJ-050040-02</th>
<th>WTJ-075055-02</th>
<th>WTJ-100075-02</th>
<th>WTJ-140100-02</th>
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</thead>
<tbody>
<tr>
<td>Table Size (L x W)</td>
<td>50 x 40 mm</td>
<td>75 x 55 mm</td>
<td>100 x 75 mm</td>
<td>140 x 100 mm</td>
</tr>
<tr>
<td>Elevation Height (H)</td>
<td>37 - 93 mm</td>
<td>37 - 138 mm</td>
<td>43 - 182 mm</td>
<td>52 - 255 mm</td>
</tr>
</tbody>
</table>

**NOTES:**
Both male and female coaxial connectors are available for all bands.

The flange pattern shown is for illustration purpose. Refer to Technical Reference Section for flange pattern details. The outline drawings shown are standard versions. Contact factory for your specific package requirements.
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