SAW Band Pass Filter
50 Ω SMA

Part Number: CBPFS-1575
Center Frequency 1575.420 MHz
Band Pass Width 60 MHz

Features:
- SAW Band Pass Filter
- 50 Ω SMA Connectors

Applications:
- Test Equipment
- Lab Use

Maximum Ratings:
- Input Power: +10 dBm
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -40°C to 85°C

Crystek’s line of SAW Band Pass Filters are designed in a rugged SMA housing. This filter line has excellent out-of-band rejection. Designed for Test Equipment and General Lab Use.
**SAW Band Pass Filter**  
**CBPFS-1575**

**PERFORMANCE SPECIFICATION**

<table>
<thead>
<tr>
<th>MIN</th>
<th>TYP</th>
<th>MAX</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency:</td>
<td>1575.420</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Pass Bandwidth:</td>
<td>60</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Insertion Loss:</td>
<td>2.6</td>
<td>3.5</td>
<td>dB</td>
</tr>
<tr>
<td>Amplitude Ripple:</td>
<td>1.0</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Attenuation: DC – 1660 MHz</td>
<td>30</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Attenuation: 1660 – 1721 MHz</td>
<td>32.5</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Attenuation: 1721 – 1800 MHz</td>
<td>37</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Attenuation: 1930 – 1990 MHz</td>
<td>12</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Attenuation: 2000 – 2040 MHz</td>
<td>39</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Attenuation: 2040 – 2080 MHz</td>
<td>36</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Attenuation: 3700 – 3820 MHz</td>
<td>31</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>VSWR:</td>
<td>2.1</td>
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<td></td>
</tr>
<tr>
<td>Impedance:</td>
<td>50</td>
<td>Ω</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range:</td>
<td>-40</td>
<td>+85</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature Range:</td>
<td>-40</td>
<td>+85</td>
<td>°C</td>
</tr>
</tbody>
</table>

**Schematic**

```
SMA Male

I/O

50 Ω

1.312
(33.34)

0.612
(15.54)

0.435
(11.05)

SMA Female

I/O

50 Ω

In/Out

In/Out

Rev F```
Typical Frequency Characteristics [close in]

Frequency (MHz) vs. Loss (dB)

Markers:
1: 1595.000 MHz, 5.872 dB
2: 1575.000 MHz, 2.607 dB
3: 1555.000 MHz, 9.232 dB

Typical Frequency Characteristics [full span]

Frequency (MHz) vs. Loss (dB)

Markers:
1: 540.246 MHz, 37.783 dB
2: 1050.195 MHz, 36.244 dB
3: 2700.030 MHz, 28.904 dB

Rev F