4.0 GHz Surface Mount Band pass Filter
B040RG9S

**DESCRIPTION**

One of DLI’s surface mountable catalog band pass filters. This filter utilizes DLI’s low loss temperature stable materials which offer small size and minimal performance variation over temperature. The catalog BPF’s are offered in a variety of frequency bands, which offers a drop in solution with highly repeatable performance.

**FEATURES**

- Small Size
- Fully Shielded Component
- Solder Surface Mount Package
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55˚C to +125˚C
- Characteristic Impedance: 50Ω

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency Range (GHz)</th>
<th>Min</th>
<th>Typ.</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss (dB)</td>
<td>2 - 6</td>
<td>-</td>
<td>2.5</td>
<td>3.0</td>
</tr>
<tr>
<td>Return Loss (dB)</td>
<td></td>
<td>10</td>
<td>15</td>
<td>12</td>
</tr>
<tr>
<td>Low Side Rejection (dB)</td>
<td>DC – 5</td>
<td>40</td>
<td>40</td>
<td>-</td>
</tr>
<tr>
<td>High Side Rejection (dB)</td>
<td>6.9 - 18.0</td>
<td>40</td>
<td>40</td>
<td>-</td>
</tr>
<tr>
<td>Input Power (W)</td>
<td></td>
<td></td>
<td></td>
<td>TBD</td>
</tr>
<tr>
<td>Size (L x W x H)</td>
<td>0.620 x 0.280 x 0.093 in</td>
<td>15.75 x 7.11 x 2.36 mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Electrical specifications based on typical probed performance at room temperature. Insertion loss shall vary ±0.5dB over temperature.

**Typical Measured Performance**

![Graph showing typical measured performance](https://via.placeholder.com/150)
4.0 GHz Surface Mount Band pass Filter
B040RG9S

Physical Dimensions

Units = inches

---

2777 Route 20 East, Cazenovia, NY 13035| Ph.: (315)655-8710 | KCCSales@knowles.com
Aug 2020
Recommended PCB Layout in mil