**40 GHz BANDPASS CERAMIC FILTER**

**Optical Communication Systems**

**FEATURES**
- Fabricated on Alumina substrate using thin film technology
- Center Frequency 40 GHz
- Low Insertion Loss in the Pass Band < 2 dB
- High Rejection in the Stop Bands > 30 dB
- Low cost if built at large quantities
- Customs design:
  - Insertion loss < 0.5 dB
  - Rejection > 50 dB

**PACKAGING**
- Input/Output Connectors K or V

**APPLICATIONS**
- Clock recovery circuit for OC768
- Millimeter wave systems
- Point-to-point and point-to-multipoint radios

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### CHARACTERISTICS

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>UNITS</th>
<th>SPECS</th>
<th>MEASURED</th>
<th>COMPLIANCE</th>
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</thead>
<tbody>
<tr>
<td>Center Frequency</td>
<td>GHz</td>
<td>40</td>
<td>40</td>
<td>YES</td>
</tr>
<tr>
<td>Insertion Loss</td>
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<td>&lt; 2</td>
<td>&lt; 1.5</td>
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<tr>
<td>Rejection @ 10 GHz</td>
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<td>&gt; 60</td>
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<tr>
<td>Rejection @ 20 GHz</td>
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<tr>
<td>Rejection @ 60 GHz</td>
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<tr>
<td>Ripple</td>
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<td>VSWR</td>
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<td>&lt; 1.8</td>
<td>&lt; 1.7</td>
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</table>

**Measure Frequency Response of Filter**

Specifications are subject to change without notification. Consult Nanowave Technologies, Inc. for specific applications/requirements.