Features
- Low Loss
- High Rejection
- Excellent Return Loss

Description
Surface mount, silver (Ag) coated ceramic bandpass filter.

Weight: 7.04 grams typical

Material: Filter is composed of a Neodymium based ceramic block plated with Ag.

Filter complies with RoHS standards.

Electrical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency MHz</th>
<th>Typical @ 25°C</th>
<th>Specification @ 25°C</th>
<th>Spec over -40°C to +85°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passband Loss</td>
<td>829 - 934</td>
<td>-1.8</td>
<td>-2.3</td>
<td>-2.5</td>
</tr>
<tr>
<td>Passband Ripple</td>
<td>849 - 934</td>
<td>0.8</td>
<td>1.1</td>
<td>1.2</td>
</tr>
<tr>
<td>Passband Return Loss @ Port 1</td>
<td>849 - 934</td>
<td>-14.0</td>
<td>-12.0</td>
<td>-12.0</td>
</tr>
<tr>
<td>Passband Return Loss @ Port 2</td>
<td>849 - 934</td>
<td>-14.0</td>
<td>-12.0</td>
<td>-12.0</td>
</tr>
<tr>
<td>Passband Phase Variation from linear</td>
<td>849 - 934</td>
<td>+/- 11°</td>
<td>+/- 16°</td>
<td>+/- 16°</td>
</tr>
<tr>
<td>Attenuation</td>
<td>0.1 - 230</td>
<td>-60.0</td>
<td>-25.0</td>
<td>-25.0</td>
</tr>
<tr>
<td></td>
<td>230 - 700</td>
<td>-50.0</td>
<td>-15.0</td>
<td>-15.0</td>
</tr>
<tr>
<td></td>
<td>1050</td>
<td>-50.0</td>
<td>-45.0</td>
<td>-45.0</td>
</tr>
<tr>
<td></td>
<td>1350</td>
<td>-40.0</td>
<td>-35.0</td>
<td>-35.0</td>
</tr>
<tr>
<td></td>
<td>1679 - 1740</td>
<td>-30.0</td>
<td>-25.0</td>
<td>-25.0</td>
</tr>
</tbody>
</table>

Power into any port: 1 Watt max

Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

- Insertion Loss: 0.1 dB
- Return Loss: 1.0 dB
- Stopbands: 1.0 dB

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### Mechanical Drawing

Dimensions:

- **A**: 14.60 mm (Max)
- **B**: 8.10 mm (Max)
- **C**: 1.02 mm
- **D**: 0.64 mm (0.13 mm)
- **E**: 0.64 mm (0.13 mm)
- **F**: 5.78 mm (0.13 mm)
- **G**: 5.60 mm (0.13 mm)
- **H**: 4.50 mm (Max)
- **I**: 1.02 mm (0.13 mm)

### Electrical response

Graph showing electrical response over frequency range from 650 to 1050 Hz.

### PCB Layout

PCB layout with solder resist and exposed conductor details.

### Packaging and Marking

- **Customer Feed Direction**: Forward

### Packaging Information

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Units</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reel Diameter</td>
<td>mm</td>
<td>330</td>
</tr>
<tr>
<td>Reel Weight</td>
<td>kg</td>
<td>2.3</td>
</tr>
<tr>
<td>Reel Quantity</td>
<td>ea.</td>
<td>250</td>
</tr>
</tbody>
</table>

### Marking Information

- **CTS**
- **820**
- **YWW**

- **Wo**: 0.945"/24
- **Ao**: 0.331"/8.4
- **Bo**: 0.575"/14.6
- **Ko**: 0.177"/4.5
- **Po**: 0.630"/16