Features
• Small Size
• Low Ripple
• High Rejection

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

Weight: 1.0 grams typical.

Material: Filter is composed of a 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 Iloss</td>
<td>2496 - 2690</td>
<td>-1.20</td>
<td>-1.70</td>
<td>-2.00</td>
</tr>
<tr>
<td>Passband Ripple</td>
<td>2496 - 2690</td>
<td>0.20</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Passband Return Loss @ Port 1</td>
<td>2496 - 2690</td>
<td>-15.00</td>
<td>-10.00</td>
<td>-10.00</td>
</tr>
<tr>
<td>Passband Return Loss @ Port 2</td>
<td>2496 - 2690</td>
<td>-15.00</td>
<td>-10.00</td>
<td>-10.00</td>
</tr>
<tr>
<td>Attenuation</td>
<td>0.1 - 2300</td>
<td>-42.00</td>
<td>-40.00</td>
<td>-40.00</td>
</tr>
<tr>
<td></td>
<td>2900 - 4000</td>
<td>-42.00</td>
<td>-40.00</td>
<td>-40.00</td>
</tr>
<tr>
<td>Power into any port</td>
<td></td>
<td>2 Watt max</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Specification Allowance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss</td>
</tr>
<tr>
<td>Return Loss</td>
</tr>
<tr>
<td>Stopbands</td>
</tr>
</tbody>
</table>

“This product is covered by one or more of the following U.S. and foreign patents including: US 4,692,726; US 4,742,560; US 4,800,348; US 4,829,274; US 5,146,193; EP 0573597; DE 0573597; FR 0573597; JP 0581499; KR 142171; US 5,162,760; US 5,218,329; US 5,250,916; US 5,327,109; US 5,468,355; CA 214402; FR 0902657; GB 2273993; JP 3200327; KR 1150113; CN 3106228; US 5,512,866; EP 0706719; DE 0706719; FR 0706719; GB 0706719; CN 95190059.4; US 5,602,518; US 5,721,520; US 5,745,018; EP 0910675; DE 0910675; DK 0910675; FR 0910675; GB 0910675; IE 0910675; JP 0910675; KR 10-323613; US 5,994,978; US 6,462,629; CN 02010402.4; US 6,650,202; US 6,694,429; Other US and foreign patents pending.

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### Mechanical Drawing

**Dimensions**

- **A**: 10.20 Max
- **B**: 6.60 Max
- **C**: 1.60 0.13
- **D**: 0.80 0.13
- **E**: 0.80 0.13
- **F**: 1.20 0.13
- **G**: 7.80 0.13
- **H**: 4.00 Max
- **I**: 1.40 0.13
- **J**: 7.60 Max
- **K**: 2.70 0.13
- **L**: 7.50 0.13
- **M**: 0.50 0.13

**Positioning Information**

- **Wo**: 0.945"/24
- **Ao**: 0.319"/8.10
- **Bo**: 0.406"/10.30
- **Ko**: 0.165"/4.20
- **Po**: 0.472"/12.00

### Electrical Response

- **Frequency (MHz)**: 1500, 2593, 4100
- **Attenuation (dB)**: -50, -30, -10

### PCB Layout

- Filter Outline
- Exposed Conductor
- Solder Resist Over Dielectric
- Solder Resist Over Conductor

### Packaging and Marking

- **Reel Diameter**: 330 mm
- **Reel Weight**: 1.6 kg
- **Reel Quantity**: 1000 ea.

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**Customer Feed Direction**

- CTS 48B YWW