Features

- Low Loss
- Low Ripple

Description

Surface mount, silver (Ag) coated ceramic filter for use in broadband applications.

Weight: 1.33 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>TX to Antenna Response</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Passband Iloss</td>
<td>994 - 1020</td>
<td>-0.8</td>
<td>-1.0</td>
<td>-1.1</td>
</tr>
<tr>
<td>Passband Ripple</td>
<td>994 - 1020</td>
<td>-0.1</td>
<td>-0.4</td>
<td>-0.4</td>
</tr>
<tr>
<td>Passband Return Loss @TX</td>
<td>994 - 1020</td>
<td>-14.0</td>
<td>-10.0</td>
<td>-10.0</td>
</tr>
<tr>
<td>Passband Return Loss @ Ant</td>
<td>994 - 1020</td>
<td>-14.0</td>
<td>-10.0</td>
<td>-10.0</td>
</tr>
<tr>
<td>Attenuation</td>
<td>862</td>
<td>-56.0</td>
<td>-15.0</td>
<td>-15.0</td>
</tr>
<tr>
<td></td>
<td>1152</td>
<td>-23.0</td>
<td>-10.0</td>
<td>-10.0</td>
</tr>
<tr>
<td>Power into any port</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></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:

**Specification Allowance**

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

This product is covered by one or more of the following U.S. and foreign patents including: US 4,692,726; US 4,742,562; US 4,800,348; US 4,829,274; US 5,146,193; EP 0573597; DE 0573598; FR 0573597; JP 508149/92; KR 142171; US 5,162,760; US 5,231,329; US 5,239,916; US 5,272,109; US 5,468,135; CA 2144029; FR 5806297; GB 2273393; JP 3205337; KR 115113; CN 9301629; US 5,512,866; EP 0706719; DE 0706719; FR 0706719; GB 0706719; CN 9519039; US 5,602,519; US 5,701,525; US 5,710,636; EP 0910875; DE 0910875; DK 0910875; FR 0910875; GB 0910875; IE 0910875; JP 050182/98; FR 10-323903; US 5,944,578; US 6,462,829; CN 05810420; US 6,555,733; US 6,560,202; US 6,834,429. Other U.S. and foreign patents pending.

CTS Corporation 2006 reserves all copyrights in the layout, design and configuration of the patterns on this product.
### Mechanical Drawing

#### Electrical response

- **Dim** | **Nominal (mm)** | **Tolerance (mm)** |
- A | 7.05 | Max |
- B | 10.92 | Max |
- C | 1.50 | 0.13 |
- D | 1.02 | 0.13 |
- E | 1.02 | 0.13 |
- F | 0.94 | 0.13 |
- G | 0.94 | 0.13 |
- H | 3.93 | Max |
- J | 1.56 | 0.13 |
- K | 1.55 | 0.13 |

### PCB Layout

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

### Packaging and Marking

<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>1.7</td>
</tr>
<tr>
<td>Reel Quantity</td>
<td>EA</td>
<td>500</td>
</tr>
</tbody>
</table>

Customer Feed Direction

```
C T S
2 7 3
Y W W
```