Features
- Low Loss
- Low Ripple
- Small Size

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

Weight: 1.1 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 @ 25ºC</th>
<th>Specification @ 25ºC</th>
<th>Spec over -40ºC to +85ºC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passband Iloss</td>
<td>2420 - 2720</td>
<td>-1.6</td>
<td>-2.0</td>
<td>-2.2</td>
</tr>
<tr>
<td>Passband Return Loss @ TX</td>
<td>2420 - 2720</td>
<td>-11.0</td>
<td>-8.0</td>
<td>-8.0</td>
</tr>
<tr>
<td>Passband Return Loss @ Ant</td>
<td>2420 - 2720</td>
<td>-11.0</td>
<td>-8.0</td>
<td>-8.0</td>
</tr>
<tr>
<td>Attenuation</td>
<td>2180</td>
<td>-32.0</td>
<td>-25.0</td>
<td>-25.0</td>
</tr>
<tr>
<td></td>
<td>3000</td>
<td>-31.0</td>
<td>-25.0</td>
<td>-25.0</td>
</tr>
<tr>
<td>Power into any port</td>
<td></td>
<td></td>
<td></td>
<td>1 Watt max</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:

- 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 0653907; DE 0573957; FR 0573957; JP 0573957; KR 142171; US 5,162,760; US 5,218,329; US 5,250,916; US 5,327,109; US 5,488,335; CA 211429; FR 9906270; GB 2773939; JP 3203537; KR 155111; CN 9301628; US 5,745,018; EP 0910875; DE 0910875; DK 0910875; FR 0910875; GB 0910875; IE 0910875; JP 0910875; KR 10-323013; US 5,784,789; US 6,462,629; CN 09010420.4; US 6,558,735; US 6,650,259; US 6,759,842; Other US 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

- **Graph** showing electrical response over frequency range from 2000 MHz to 3000 MHz.

#### 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>0.8</td>
</tr>
<tr>
<td>REEL QUANTITY</td>
<td>ea.</td>
<td>1000</td>
</tr>
</tbody>
</table>

### Notes

- **Model No.**
  - CER0293A
  - 0.945"/24, .175"/4.45, .602"/10.20, .165"/4.20, .472"/12.00

- **Revision**
  - Rev. X4VH

- **Customer Feed Direction**

- **Product Marking**

- **Customer Contact Information**
  - CTS Electronic Components - www.ctscorp.com - 171 Covington Drive - Bloomingdale, IL 60108