Features
• Low Ripple
• High Rejection
• Low Loss

Description
Surface mount, silver (Ag) coated ceramic filter. Developed for use in wireless applications, CTS Monoblock Filters are designed to minimize ripple and maximize rejection.

Weight: 4.5 grams typical

Material: Filter is composed of a ceramic block coated with Ag and a shield made of nickel silver plated steel.

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>2500 - 2570</td>
<td>-2.10</td>
<td>-2.50</td>
<td>-2.70</td>
</tr>
<tr>
<td>Passband Ripple</td>
<td>2500 - 2570</td>
<td>0.70</td>
<td>0.90</td>
<td>1.00</td>
</tr>
<tr>
<td>Passband Return Loss @ Port 1</td>
<td>2500 - 2570</td>
<td>-16.50</td>
<td>-14.00</td>
<td>-14.00</td>
</tr>
<tr>
<td>Passband Return Loss @ Port 2</td>
<td>2500 - 2570</td>
<td>-16.30</td>
<td>-14.00</td>
<td>-14.00</td>
</tr>
<tr>
<td>Attenuation</td>
<td>0.1 - 2220</td>
<td>-54.30</td>
<td>-34.00</td>
<td>-34.00</td>
</tr>
<tr>
<td></td>
<td>2220 - 2290</td>
<td>-55.00</td>
<td>-45.00</td>
<td>-45.00</td>
</tr>
<tr>
<td></td>
<td>2290 - 2400</td>
<td>-48.00</td>
<td>-34.00</td>
<td>-34.00</td>
</tr>
<tr>
<td></td>
<td>2620 - 2690</td>
<td>-49.00</td>
<td>-45.00</td>
<td>-45.00</td>
</tr>
<tr>
<td></td>
<td>2690 - 3000</td>
<td>-55.00</td>
<td>-10.00</td>
<td>-10.00</td>
</tr>
<tr>
<td>Power into any port</td>
<td></td>
<td></td>
<td></td>
<td>2 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:

**Specification Allowance**

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

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**Mechanical Drawing**

**Electrical response**

**PCB Layout**

**Packaging and Marking**

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**DIMENSION** | **UNITS** | **SPECIFICATION**
---|---|---
REEL DIAMETER | mm | 330
REEL WEIGHT | kg | 3.5
REEL QUANTITY | ea. | 500

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**CER0753C**

2535 MHz Monoblock BPF

Revision C – Origin Date: November 3, 2010 – Revision Date: May 2, 2017

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**CTS**

53C

YWW