Features
- Low Ripple
- High Rejection
- Low Loss

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

Weight: 4.7 grams typical

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

Filter complies with RoHS standards.

Electrical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency (MHz)</th>
<th>Typical @ 25°C</th>
<th>Spec. @ 25°C</th>
<th>Spec. over -40°C to +85°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passband Insertion Loss</td>
<td>1930-1990</td>
<td>3.4 dB</td>
<td>3.7 dB</td>
<td>3.9 dB</td>
</tr>
<tr>
<td>Passband Return Loss @ input</td>
<td>1930-1990</td>
<td>12.5 dB</td>
<td>10.0 dB</td>
<td>10.0 dB</td>
</tr>
<tr>
<td>Passband Ripple</td>
<td>1930-1990</td>
<td>1.8 dB</td>
<td>2.0 dB</td>
<td>2.2 dB</td>
</tr>
<tr>
<td>Attenuation</td>
<td>1850-1910</td>
<td>35.0 dB</td>
<td>32.0 dB</td>
<td>32.0 dB</td>
</tr>
<tr>
<td></td>
<td>1920</td>
<td>21.0 dB</td>
<td>19.0 dB</td>
<td>19.0 dB</td>
</tr>
<tr>
<td></td>
<td>2010</td>
<td>35.0 dB</td>
<td>10.0 dB</td>
<td>10.0 dB</td>
</tr>
<tr>
<td>Power into any port</td>
<td></td>
<td></td>
<td>5 Watt max</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:

- 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 0573597; FR 0573597; JP 508149/92; KR 142171; US 5,162,740; US 5,218,325; US 5,260,916; US 5,327,100; US 5,488,335; CA 2144029; FR 3006207; GB 2273393; JP 3200337; KR 115113; CN 9310528; US 5,128,866; EP 0706719; DE 0706719; FR 0706719; GB 0706719; CN 95190359.4; US 5,602,518; US 5,721,520; US 5,745,018; EP 0910875; DE 0910875; DK 0910875; FR 0910875; GB 0910875; IE 0910875; JP 0910875; JP 0910875; KR 1-32-3013; US 6,496,978; US 6,496,978; CN 00810420.4; US 6,496,978; CN 6,559,735; US 6,650,202; US 6,834,429; Other U.S. and foreign patents pending.

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Mechanical Drawing

Electrical response

Packaging and Marking

DIMENSION | UNITS | SPECIFICATION
---|---|---
REEL DIAMETER | mm | 330
REEL WEIGHT | kg | 3.1
REEL QUANTITY | ea. | 500

CTS 49C

Customer Feed Direction

INOUT

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

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