Diplexer PCS/AWS+WCS, DC block, 4.3-10

- Full performance in a fraction of the size
- High power handling
- Includes AWS-3 and AWS-4 bands
- New 4.3-10 connectors for improved PIM performance and size reduction
- dc/AISG blocking on all ports (DC grounded)
- Ideal for small cell applications

Product Classification

Product Type: Diplexer

General Specifications

- Color: Gray
- Common Port Label: COMMON
- Modularity: 1-Single
- RF Connector Interface: 4.3-10 Female
- RF Connector Interface Body Style: Long neck

Dimensions

- Height: 118 mm | 4.646 in
- Width: 116 mm | 4.567 in
- Depth: 48 mm | 1.89 in

Outline Drawing
Electrical Specifications

**License Band, Band Pass**
- AWS 1700
- PCS 1900
- TDD 1900
- TDD 2300
- WCS 2300

**Electrical Specifications, dc Power/Alarm**

- **Lightning Surge Current**: 5 kA
- **Lightning Surge Current Waveform**: 8/20 waveform

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Sub-module</th>
<th>Branch</th>
<th>Port Designation</th>
<th>License Band</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Port 1695-1780/2110-2360</td>
<td>AWS 1700, Band Pass WCS 2300, Band Pass</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>Port 1850-1990</td>
<td>PCS 1900, Band Pass TDD 1900, Band Pass</td>
</tr>
</tbody>
</table>
Electrical Specifications, Band Pass

<table>
<thead>
<tr>
<th>Frequency Range, MHz</th>
<th>1695–1780</th>
<th>1850–1990</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss, typical, dB</td>
<td>0.25</td>
<td>0.25</td>
</tr>
<tr>
<td>Total Group Delay, maximum, ns</td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td>Return Loss, typical, dB</td>
<td>23</td>
<td>23</td>
</tr>
<tr>
<td>Isolation, typical, dB</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Input Power, RMS, maximum, W</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Input Power, PEP, maximum, W</td>
<td>1500</td>
<td>1500</td>
</tr>
<tr>
<td>3rd Order PIM, typical, dBC</td>
<td>-161</td>
<td>-161</td>
</tr>
<tr>
<td>3rd Order PIM Test Method</td>
<td>1 x 20 W AWS CW tone, 1 x 20 W PCS CW tone</td>
<td>2 x 20 W CW tones</td>
</tr>
</tbody>
</table>

Block Diagram

Material Specifications

Finish
Painted

Environmental Specifications

Operating Temperature
-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity
Up to 100%
Corrosion Test Method
IEC 60068-2-11, 30 days
Ingress Protection Test Method
IEC 60529:2001, IP67

Packaging and Weights

Weight, net
1 kg | 2.205 lb

Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINA-ROHS</td>
<td>Below maximum concentration value</td>
</tr>
<tr>
<td>REACH-SVHC</td>
<td>Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a></td>
</tr>
<tr>
<td>ROHS</td>
<td>Compliant</td>
</tr>
</tbody>
</table>