Ultra Compact Single Diplexer 700-800/900, 4.3-10 connectors

- Ideal for small cell applications
- Compact form factor with reduced size and weight
- Suitable for space limited applications like Metro Cell, Lamp Pole, Concealment Solution and Macro Site
- New 4.3-10 connectors for improved PIM performance and size reduction
- Single configuration

Product Classification

Product Type
Diplexer

General Specifications

Product Family
CBC789

Color
Gray

Common Port Label
PORT 3 COMMON

Modularity
2-Twin

Mounting
Pole | Wall

Mounting Pipe Hardware
Band clamps (2)

RF Connector Interface
4.3-10 Female

RF Connector Interface Body Style
Long neck

Dimensions

Height
41.8 mm | 1.646 in

Width
171.5 mm | 6.752 in

Depth
136.3 mm | 5.366 in

Mounting Pipe Diameter Range
40–160 mm

Outline Drawing
Electrical Specifications

Impedance 50 ohm

License Band, Band Pass

<table>
<thead>
<tr>
<th>License Band</th>
<th>Band Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>APT 700</td>
<td>CEL 900</td>
</tr>
<tr>
<td>EDD 800</td>
<td>LMR 800</td>
</tr>
</tbody>
</table>

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method
- No dc/AISG pass-through
- dc/AISG blocking on all ports
- dc/AISG blocking on all ports

Lightning Surge Current 5 kA

Lightning Surge Current Waveform 8/20 waveform
### Sub-module

<table>
<thead>
<tr>
<th>Branch</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORT 1</td>
<td>694-862</td>
<td></td>
</tr>
<tr>
<td>PORT 2</td>
<td>880-960</td>
<td></td>
</tr>
</tbody>
</table>

### License Band

- APT 700, Band Pass
- EDD 800, Band Pass
- LMR 800, Band Pass
- CEL 900, Band Pass

## Electrical Specifications, Band Pass

<table>
<thead>
<tr>
<th>Frequency Range, MHz</th>
<th>694–862</th>
<th>880–960</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss, typical, dB</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>Return Loss, typical, dB</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>Isolation, typical, dB</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Input Power, PEP, maximum, W</td>
<td>1200</td>
<td>1200</td>
</tr>
<tr>
<td>3rd Order PIM, typical, dBC</td>
<td>-161</td>
<td>-161</td>
</tr>
</tbody>
</table>

### 3rd Order PIM Test Method

- Two +43 dBm carriers

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Environmental Specifications

Operating Temperature
-40 °C to +65 °C (-40 °F to +149 °F)

Corrosion Test Method
IEC 60068-2-11, 30 days

Ingress Protection Test Method
IEC 60529:2001, IP67

Packaging and Weights

Included
Mounting hardware

Volume
1.1 L

Weight, net
1.9 kg  |  4.189 lb

Weight, without mounting hardware
1.5 kg  |  3.307 lb

Regulatory Compliance/Certifications
<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
</tr>
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