Ultra Compact Octa Diplexer 2300-2400/2570-2595 MHz, No dc bypass

- Nex10 connectors on BTS side and 4.3-10 connectors on ANT side
- Industry leading PIM performance
- Ideal for small cell applications
- Compact form factor with reduced size and weight
- Suitable for space limited applications like Metro Cell, Lamp Pole and Concealment Solution
- Clam shell configuration

Product Classification

Product Type: Diplexer

General Specifications

Color: Gray
Modularity: 8-Octa
Mounting: Pole | Wall
Mounting Pipe Hardware: Band clamps (2)

Dimensions

Height: 83 mm | 3.268 in
Width: 358.5 mm | 14.114 in
Depth: 131 mm | 5.157 in
Mounting Pipe Diameter Range: 42.6–122 mm

Outline Drawing
Electrical Specifications

**Impedance**

50 ohm

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**Electrical Specifications, dc Power/Alarm**

- **dc/AISG Pass-through Method**
  - No dc/AISG pass-through
- **dc/AISG Pass-through, combiner**
  - dc/AISG blocking on all ports
- **dc/AISG Pass-through, demultiplexer**
  - dc/AISG blocking on all ports
- **Lightning Surge Current**
  - 5 kA
- **Lightning Surge Current Waveform**
  - 8/20 waveform

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**Electrical Specifications**

<table>
<thead>
<tr>
<th>Sub-module</th>
<th>1</th>
<th>2</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
</table>
### Electrical Specifications, Band Pass

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Port 2300-2400</th>
<th>Port 2570-2595</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range, MHz</td>
<td>2300–2400</td>
<td>2570–2595</td>
</tr>
<tr>
<td>Insertion Loss, typical, dB</td>
<td>0.2</td>
<td>0.3</td>
</tr>
<tr>
<td>Return Loss, typical, dB</td>
<td>20</td>
<td>19</td>
</tr>
<tr>
<td>Isolation, typical, dB</td>
<td>35</td>
<td>35</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>500</td>
<td>500</td>
</tr>
<tr>
<td>3rd Order PIM, typical, dBC</td>
<td>-155</td>
<td>-155</td>
</tr>
<tr>
<td>3rd Order PIM Test Method</td>
<td>2 x 20 W CW tones</td>
<td>2 x 20 W CW tones</td>
</tr>
</tbody>
</table>

### Environmental Specifications

- **Operating Temperature**: -40 °C to +65 °C (-40 °F to +149 °F)
- **Corrosion Test Method**: IEC 60068-2-11, 30 days
- **Environmental Test Method**: ETSI EN 300 019-1-4
- **Ingress Protection Test Method**: IEC 60529:2001, IP67

### Packaging and Weights

- **Included**: Mounting hardware
<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>Volume</strong></td>
<td>3.9 L</td>
</tr>
<tr>
<td><strong>Weight, net</strong></td>
<td>6.3 kg</td>
</tr>
<tr>
<td><strong>Weight, without mounting hardware</strong></td>
<td>5.8 kg</td>
</tr>
</tbody>
</table>