Diplexer, 1800-2100//2300-2600 MHz, dc bypass on 2300-2600 port

Product Classification

Product Type  Diplexer

General Specifications

Product Family  CBC1726
Color  Gray
Common Port Label  COMM
Modularity  1-Single
Mounting  Pole  |  Wall
Mounting Pipe Hardware  Band clamps (2)
RF Connector Interface  7-16 DIN Female
RF Connector Interface Body Style  Medium neck

Dimensions

Height  152.4 mm  |  6 in
Width  123 mm  |  4.843 in
Depth  59 mm  |  2.323 in
Ground Screw Diameter  6 mm  |  0.236 in
Mounting Pipe Diameter Range  42.6–122 mm
Electrical Specifications

**Impedance**
50 ohm

**License Band, Band Pass**
- AWS 1700
- DCS 1800
- IMT 2100
- IMT 2600
- PCS 1900
- TDD 1900
- TDD 2000
- TDD 2300
- TDD 2600
- WCS 2300

Electrical Specifications, dc Power/Alarm

- **dc/AISG Pass-through, combiner**
  Branch 2
- **dc/AISG Pass-through, demultiplexer**
  Branch 2
- **Lightning Surge Current**
  3 kA
- **Lightning Surge Current Waveform**
  10/350 waveform
Electrical Specifications

<table>
<thead>
<tr>
<th>Sub-module</th>
<th>1</th>
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<tr>
<td>Branch</td>
<td>1</td>
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<tr>
<td>Port Designation</td>
<td>1710-2170</td>
<td>2300-2690</td>
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<tr>
<td>License Band</td>
<td>AWS 1700, Band Pass</td>
<td>IMT 2600, Band Pass</td>
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<td>DCS 1800, Band Pass</td>
<td>WCS 2300, Band Pass</td>
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<td>IMT 2100, Band Pass</td>
<td>TDD 2300, Band Pass</td>
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<td>PCS 1900, Band Pass</td>
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Electrical Specifications, Band Pass

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<tr>
<th></th>
<th>1710–2170</th>
<th>2300–2690</th>
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<tr>
<td>Frequency Range, MHz</td>
<td>1710–2170</td>
<td>2300–2690</td>
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<tr>
<td>Insertion Loss, maximum, dB</td>
<td>0.4</td>
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<tr>
<td>Insertion Loss, typical, dB</td>
<td>0.3</td>
<td>0.35</td>
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<td>Total Group Delay, maximum, ns</td>
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<tr>
<td>Return Loss, minimum, dB</td>
<td>18</td>
<td>18</td>
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<tr>
<td>Return Loss, typical, dB</td>
<td>20</td>
<td>20</td>
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<tr>
<td>Isolation, minimum, dB</td>
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<td>Input Power, PEP, maximum, W</td>
<td>3500</td>
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<tr>
<td>3rd Order PIM, typical, dBC</td>
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<tr>
<td>3rd Order PIM Test Method</td>
<td>1 x 20 W AWS CW tone</td>
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<td></td>
<td>1 x 20 W PCS CW tone</td>
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Block Diagram
Environmental Specifications

**Operating Temperature**
-40 °C to +60 °C (-40 °F to +140 °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

**Included**
- Mounting hardware

**Volume**
1.1 L

**Weight, net**
2.4 kg | 5.291 lb