

# Compact Twin Triplexer PCS/AWS/2305-5925 MHz, DC blocking, 4.3-10 connectors

- BTS-to-feeder and feeder-to-antenna application
- New 4.3-10 connectors for improved PIM performance and size reduction
- Ideal for small cell applications
- dc/AISG blocking on all ports (DC grounded)

#### **Product Classification**

Product Type Triplexer

### General Specifications

**Color** Gray

Common Port LabelCommonModularity2-Twin

MountingPole | WallRF Connector Interface4.3-10 FemaleRF Connector Interface Body StyleLong neck

#### **Dimensions**

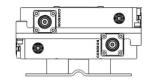
 Height
 135 mm | 5.315 in

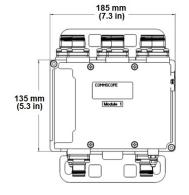
 Width
 185 mm | 7.283 in

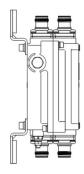
 Depth
 76 mm | 2.992 in

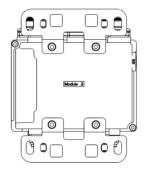


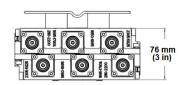
### Outline Drawing











#### **Electrical Specifications**

**Impedance** 50 ohm

**License Band, Band Pass**AWS 1700 | AWS 2000 | LAA 5000 | PCS 1900 | TDD 1900 | TDD

2000 | TDD 2300 | TDD 2600 | TDD 3500 | WCS 2300

#### Electrical Specifications, dc Power/Alarm

**Lightning Surge Current** 5 kA

**Lightning Surge Current Waveform** 8/20 waveform

### **Electrical Specifications**

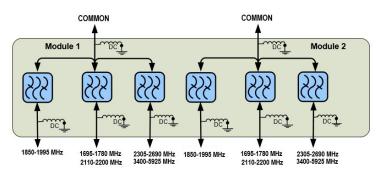
| Sub-module       | 1   2          | 1   2               | 1   2          | 1              | 1   2          |
|------------------|----------------|---------------------|----------------|----------------|----------------|
| Branch           | 1              | 2                   | 3              | 3              | 3              |
| Port Designation | PCS            | AWS                 | 2305-5925      | 2305-5925      | 2305-5925      |
| License Band     | PCS 1900, Band | AWS 1700, Band Pass | WCS 2300, Band | TDD 3500, Band | LAA 5000, Band |

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|                                      | Pass              | AWS 2000, Band Pass    | Pass              | Pass              | Pass             |  |  |  |
|--------------------------------------|-------------------|------------------------|-------------------|-------------------|------------------|--|--|--|
| Electrical Specifications, Band Pass |                   |                        |                   |                   |                  |  |  |  |
| Frequency Range, MHz                 | 1850-1995         | 1695-1780<br>2110-2200 | 2305-2690         | 3400-4200         | 5150-5925        |  |  |  |
| Insertion Loss, typical, dB          | 0.3               | 0.3                    | 0.3               | 0.3               | 0.3              |  |  |  |
| Total Group Delay, maximum, ns       | 20                | 25                     | 25                | 25                | 25               |  |  |  |
| Return Loss, minimum, dB             | 20                | 20                     | 20                | 20                | 20               |  |  |  |
| Isolation, minimum, dB               | 35                | 35                     | 35                | 35                | 35               |  |  |  |
| Input Power, RMS, maximum,<br>W      | 100               | 100                    | 100               | 100               | 100              |  |  |  |
| Input Power, PEP, maximum,<br>W      | 1000              | 1000                   | 1000              | 1000              | 1000             |  |  |  |
| 3rd Order PIM, maximum, dBc          | -161              | -161                   | -161              | -145              | -145             |  |  |  |
| 3rd Order PIM Test Method            | 2 x 20 W CW tones | 2 x 20 W CW tones      | 2 x 20 W CW tones | 2 x 20 W CW tones | 2 x 5 W CW tones |  |  |  |

#### Block Diagram



#### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 32.0 N @ 150 km/h (7.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 7.0 N @ 150 km/h (1.6 lbf @ 150 km/h)

#### **Environmental Specifications**

**Operating Temperature**  $-40 \,^{\circ}\text{C} \text{ to } +65 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +149 \,^{\circ}\text{F})$ 

Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

**Included** Mounting hardware



Volume 1.9 L

Weight, without mounting hardware 3.2 kg | 7.055 lb