

Ultra Compact Quad-pack Diplexer PCS/AWS+WCS+BRS, DC AWS/WCS /BRS, NEX10 Connector

- Quad configuration, 4x4 MIMO ready
- Ideal for small cell applications
- BTS-to-feeder and feeder-to-antenna application
- DC/AISG pass on 1695-1780/2110-2700 MHz
- Industry leading PIM performance

#### **Product Classification**

Product Type Diplexer

General Specifications

**Color** Gray

Common Port LabelCommonModularity4-Quad

**RF Connector Interface** NEX10 Female

**RF Connector Interface Body Style**Long neck

Dimensions

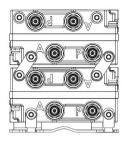
 Height
 65 mm | 2.559 in

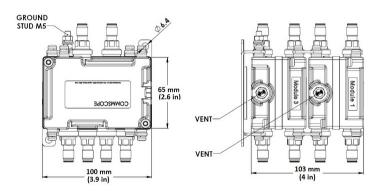
 Width
 100 mm | 3.937 in

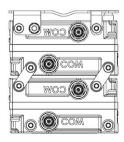
 Depth
 103 mm | 4.055 in

Outline Drawing









#### **Electrical Specifications**

**Impedance** 50 ohm

**License Band, Band Pass**AWS 1700 | IMT 2600 | PCS 1900 | TDD 1900 | TDD 2300 | TDD

2600 | WCS 2300

#### Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through MethodFactory setdc/AISG Pass-through PathBranch 2dc/AISG Pass-through, combinerBranch 2dc/AISG Pass-through, demultiplexerBranch 2Lightning Surge Current5 kA

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



**Voltage** 10–30 Vdc

Electrical Specifications, AISG

**AISG Carrier** 2.176 MHz ± 100 ppm

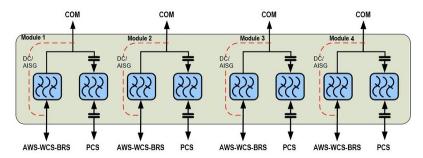
### **Electrical Specifications**

Sub-module	1   2   3   4	1   2   3   4
Branch	1	2
Port Designation	PCS	AWS-WCS-BRS
License Band	PCS 1900, Band Pass	WCS 2300, Band Pass AWS 1700, Band Pass TDD 2300, Band Pass TDD 2600, Band Pass IMT 2600, Band Pass

### Electrical Specifications, Band Pass

Frequency Range, MHz	1850-1995	1695-1780 2110-2700
Insertion Loss, typical, dB	0.25	0.18
Total Group Delay, maximum, ns	13	10
Return Loss, typical, dB	22	22
Isolation, minimum, dB	35	35
Input Power, RMS, maximum, W	100	100
Input Power, PEP, maximum, W	1500	1500
3rd Order PIM, maximum, dBc	-155	-155
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

### Block Diagram



#### Material Specifications

**Finish** Painted



#### **Environmental Specifications**

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

**Relative Humidity** Up to 100%

Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

IncludedMounting hardwareMounting Hardware Weight0.1 kg | 0.22 lbWeight, without mounting hardware1.4 kg | 3.086 lb

