

### Quad Diplexer 2300-2400/2496-2690 MHz, 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- 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
- Designed for network modernization application, introduction of LTE 4x4 MIMO
- Quad configuration, 4x4 MIMO ready
- Clam shell configuration

### **Product Classification**

Product Type Diplexer

## General Specifications

**Color** Gray

Common Port LabelCommonModularity4-Quad

**RF Connector Interface** 4.3-10 Female

#### Dimensions

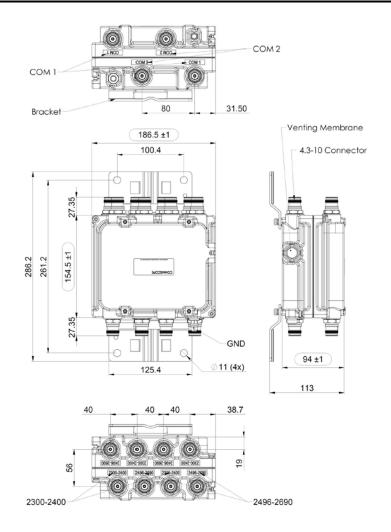
 Height
 94 mm | 3.701 in

 Width
 154.5 mm | 6.083 in

 Depth
 186.5 mm | 7.343 in

### Outline Drawing





### **Electrical Specifications**

**Impedance** 50 ohm

**License Band, Band Pass**AWS 1700 | DCS 1800 | IMT 2100 | IMT 2600 | TDD 2300 | TDD

2600 | WCS 2300

## 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**

Sub-module	1   2	1   2
Branch	1	2

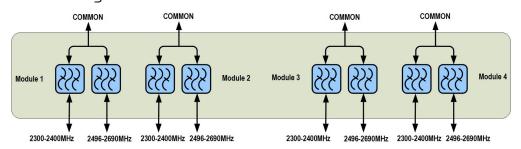
Port DesignationPort 2300-2400Port 2500-2690

License BandWCS 2300, Band PassTDD 2600, Band PassTDD 2300, Band PassIMT 2600, Band Pass

### Electrical Specifications, Band Pass

Frequency Range, MHz	2300-2400	2500-2690
Insertion Loss, typical, dB	0.3	0.35
Return Loss, typical, dB	20	20
Isolation, minimum, dB	50	50
Input Power, RMS, maximum, W	300	300
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, typical, dBc	-161	-161
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

### Block Diagram



DC BLOCKING ALL PORTS

### 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%

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

Ingress Protection Test Method IEC 60529:2001, IP67

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## Packaging and Weights

Volume 2.7 L

Weight, net  $4.5 \text{ kg} \mid 9.921 \text{ lb}$  Weight, without mounting hardware  $4 \text{ kg} \mid 8.818 \text{ lb}$ 

