

Compact Twin WCS IMF for Aeronautical Mobile Telemetry Band Co-Location, 4.3-10

- New 4.3-10 connectors for improved PIM performance and size reduction
- DC/AISG passing capability from BTS port to ANT port
- Convertible mounting brackets

#### **Product Classification**

Product Type Interference mitigation filter

### General Specifications

Color Gray
Modularity 2-Twin

Mounting Pipe HardwareBand clamps (2)RF Connector Interface4.3-10 Female

#### Dimensions

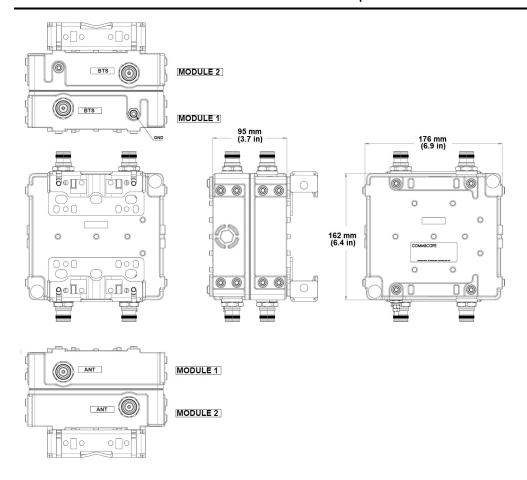
 Height
 162 mm | 6.378 in

 Width
 176 mm | 6.929 in

 Depth
 95 mm | 3.74 in

### Outline Drawing





### Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Path

Branch 1

Lightning Surge Current

8 kA

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

### **Electrical Specifications**

 Sub-module
 1 | 2
 1 | 2
 1 | 2
 1 | 2
 1 | 2

 Branch
 1
 1
 1
 1
 1
 1

Port DesignationUplinkDownlinkDownlinkDownlink

License Band WCS 2300, Band Pass WCS 2300, Band Pass WCS 2300, Band Pass WCS 2300, Band Pass

### Electrical Specifications, Band Pass

Frequency Range, MHz 2305-2315 2350-2357 2357-2358.6 2358.6-2358.96

**Insertion Loss, maximum, dB** 0.7 0.6 1.2 1.8

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Insertion Loss, typical, dB	0.5	0.5	0.8	1.3
Total Group Delay, maximum, ns	35	380	550	550
Return Loss, minimum, dB	18	18	18	18
Return Loss, typical, dB	20	20	20	20
Input Power, RMS, maximum, W		100	100	100
Input Power, PEP, maximum, W		1000	1000	1000
Higher Order PIM, minimum, dBc		-160	-160	-160
Higher Order PIM Test Method		2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones

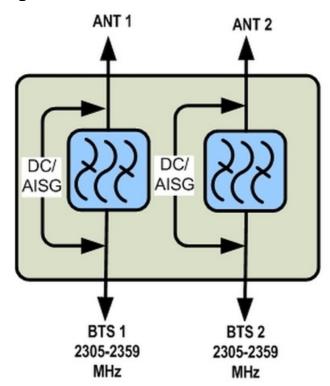
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### Electrical Specifications, Band Reject

Frequency Range, MHz 2360-2395

Attenuation, minimum, dB

#### Block Diagram



#### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 42.0 N @ 150 km/h (9.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 16.0 N @ 150 km/h (3.6 lbf @ 150 km/h)

### **Environmental Specifications**

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

**Relative Humidity** Up to 100%

Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

IncludedMounting hardwareWeight, net4.2 kg | 9.259 lb

### Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Above maximum concentration value

**COMMSCOPE®** 

ROHS UK-ROHS Compliant/Exempted
Compliant/Exempted

