

Twin Hybrid Combiner

- Hybrid combiner providing the flexibility of combining any two carriers within 617-2700 MHz
- Ideal for combining carriers of any technology combination (LTE, UMTS, CDMA, GSM, etc.) independent of guard band restrictions
- Integrated low PIM load allows for simplified installation
- Self-contained housing ensures highest reliability in severe environments
- DC-AISG passing capability from Port 2 to Common Port
- New 4.3-10 connectors for improved PIM performance and size reduction

Product Classification

Product TypeHybrid combinerProduct BrandUltraBand™

General Specifications

AISG Carrier 2176 KHz ± 100 ppm

Color Gray

Connector Interface4.3-10 FemaleModularityTwo-pack twinMountingPole | WallMounting Pipe HardwareBand clamps

Dimensions

 Height
 181 mm | 7.126 in

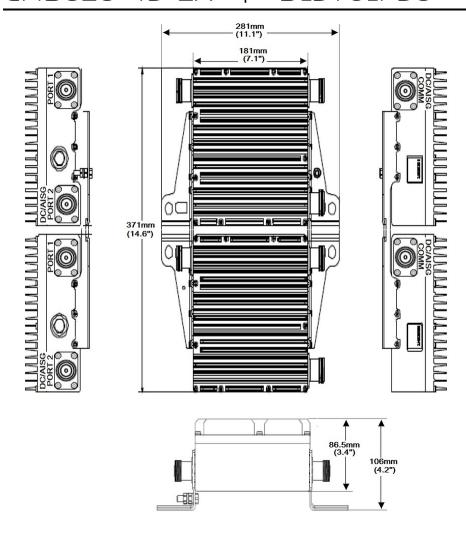
 Width
 371 mm | 14.606 in

 Depth
 86.5 mm | 3.406 in

 Ground Screw Diameter
 6 mm | 0.236 in

Outline Drawing





Electrical Specifications

3rd Order IMD Test Method Two +43 dBm carriers

3rd Order IMD, typical-161 dBcdc Pass-throughBranch 2Lightning Surge Current10 kA

Lightning Surge Current Waveform 8/20 waveform

Electrical Specifications, AISG

dc Current, maximum 2.5 A

Electrical Specifications, Branch 1

Coupling 3.1 dB

COMMSCOPE®

Coupling Tolerance	±0.8 dB
Input Power, PEP	3000 W
Input Power, RMS	150 W
Isolation, typical	30 dB

Operating Frequency Band 617 – 2700 MHz

Port DesignationPort 1Return Loss, typical22 dB

Electrical Specifications, Branch 2

 Coupling
 3.1 dB

 Coupling Tolerance
 ±0.8 dB

 Input Power, PEP
 3000 W

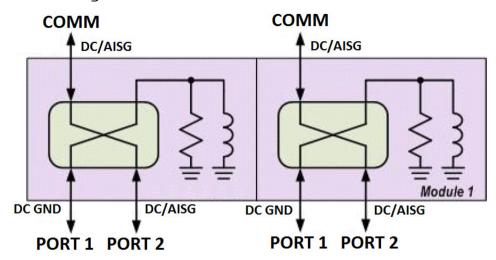
 Input Power, RMS
 150 W

 Isolation, typical
 30 dB

Operating Frequency Band 617 – 2700 MHz

Port DesignationPort 2Return Loss, typical22 dB

Block Diagram



Environmental Specifications

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

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Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

IncludedMounting hardwareWeight, net8.8 kg | 19.401 lb

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

