

Product Specification



CCFA-433-XDW-N2

Quad Band Combiner

- **Covers 700, 850, 1900 and AWS-Ext Bands**
- **Fully Weatherized**
- **Low Loss / High Isolation**
- **DC / ASIG Auto Sense**
- **Single or Dual Units Available**

Electrical Specifications

Band 1 - 600-700			
Passband	MHz	Min	555-787
Insertion Loss	dB	Max	0.45
Return Loss	dB	Min	22
Isolation to Bands 2, 3 and 4	dB	Min	60
Average input power	W	Max	250
Input Peak Envelope Power	W	Max	3000
Band 2 - 850			
Passband	MHz	Min	824-894
Insertion Loss	dB	Max	0.45
Return Loss	dB	Min	22
Isolation to Bands 1, 3 and 4	dB	Min	60
Average input power	W	Max	250
Input Peak Envelope Power	W	Max	3000
Band 3 - PCS			
Passband	MHz	Min	1850-1995
Insertion Loss	dB	Max	0.45
Return Loss	dB	Min	22
Isolation to Bands 1, 2 and 4	dB	Min	60
Average input power	W	Max	250
Input Peak Envelope Power	W	Max	3000
Band 4 - AWS			
Passband	MHz	Min	1695-1780 and 2110-2200
Insertion Loss	dB	Max	0.45
Return Loss	dB	Min	22
Isolation to Bands 1, 2 and 3	dB	Min	60
Average input power	W	Max	250
Input Peak Envelope Power	W	Max	3000
Intermod Products at all Ports with two +43dBm tones	dBc	Max	-156

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Environmental Specifications

Environmental rating			ETSI EN 300 019 class 4.1, RoHS
Ingress protection			IP67
Temperature range	°C		-40 to +65
Temperature range	°F		-40 to +149
Wind force @ 200 km/h (125 mph) front/side	lbf		29.5 / 12.3
Lightning protection all ports			RF port: ±10kA max (8/20us), IEC 61000-4-5
Altitude			3,000m max 10,000ft max
Mean Time Between Failures (MTBF)	Hrs	Min	>10 ⁶

Electronic Specifications

DC Sense and Routing Specifications

Input voltage	DCV		8 to 35
DC current rating	amps	Max	1.5, current limited
Compatibility AISG			1.1 / 2.0

Combiner Function

DC on any individual port			DC-AISG connected to COM
DC on more than one port			P1: AWS P2: 600-700 P3: PCS P4: 850

Splitter Function

DC on COM detected			DC-AISG routed to port with AISG device
Port priority for multiple devices			P1: AWS P2: 600-700 P3: PCS

Mechanical Specifications

Connectors RF			4.3-10 (F)
Ground stud			M6 x 1 (hex nut included)
Connectors Quantity			5
Dimensions excluding brackets & connectors L x W x H mm (in.)			204 x 305 x 85 (8.0 x 12.0 x 3.4)
Weight, KG, (lbs)			5.36 (11.8)
Mounting			Pole/wall bracket supplied including two metal clamps for 45-178 mm diameter poles



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Mechanical Outline

