## DBC-A-P-4SF

#### NWAV™ Dual-Band Combiner



### **DBC-A-P-4SF**

**Dual-band combiner** 

1900/AWS

DC/AISG sensing

Quad unit

4.3-10 connectors



- Very low insertion loss and high isolation for optimized system performance
- Compact size and light weight for minimum site impact and lowest lease costs
- Automatic DC sense for easy installation and site evolution
- Industry-leading connector technology for lasting performance
- Compatible with JMA WPS weatherproofing solution

Electrical specification				
Passband	1900 passband	1900 passband AWS passband		
Frequency, MHz	1850 - 1995	uplink 1695 - 1780	downlink 2110 - 2200	
Insertion loss, dB avg.		0.25		
Insertion loss, dB max.		0.35		
Return loss, dB min.		22		
Isolation to other bands, dB		60		
Average input power, W max.	250	n/a	250	
Input peak envelope power (PEP), W max.	3000	n/a	3000	
PIM 2x +43 dBm, dBc min.		-156		

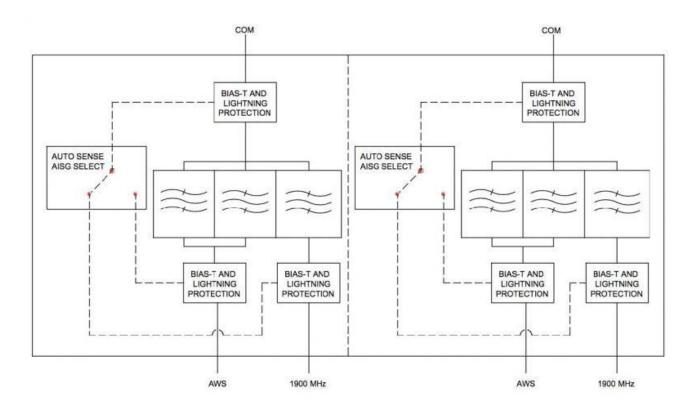
Environmental specifications		
Environmental rating	ETSI EN 300 019 class 4.1, RoHS	
Ingress protection	IP67, unmated	
Temperature range, °C	-40 to +65	
Temperature range, ⁰F	-40 to +149	
Wind force @ 200 km/h (125 mph) front/side, lbf	13.42 / 13.9	
Lightning protection all ports	RF port: ±10kA max. (8/20us), IEC 61000-4-5	
Altitude	3,000 m max.   10,000 ft. max.	
Mean time between failures (MTBF)	>10^6	

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DC sense and routing specifications		
Input voltage, DCV max.	35	
DC current rating amps	1.5, current limited	
Compatibility AISG	1.1/2.0	
Diplexer on bottom (combiner)		
DC on AWS or PCS port	DC-AISG connected to COM	
Both ports with DC detected	DC-AISG connected from AWS to COM	
Diplexer on top (splitter)		
DC on COM detected	DC-AISG routed to port with an AISG Device	
If more than one port has an AISG device	One port is selected. See Port priority below	
Port priority (multiple AISG devices detected)	P1: AWS P2: PCS	



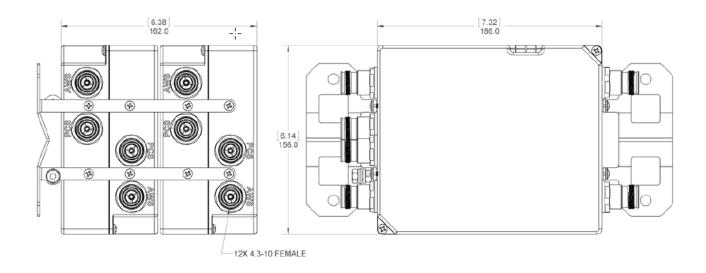
Twin block diagram (2x in -4SF)

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Mechanical specifications		
Connectors RF	4.3-10 (F)	
Ground stud	M6 x 1 (hex nut included)	
Connectors quantity	12	
Dimensions, excluding brackets and connectors L x W x H mm (in.)	186 x 156 x 162 (7.32 x 6.14 x 6.4)	
Weight: kg (lbs.)	6.9 (15.2)	
Mounting	Pole/wall bracket supplied, including two metal clamps for 45-178 mm diameter poles	



Ordering information	
DBC-A-P-4SF	2B combiner AWS/PCS, DC sense, Quad

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