

# DBC-A-P-6SF

NWAV™ Dual-Band Combiner

## DBC-A-P-6SF

Dual-band Combiner Rack

1900/AWS

DC/AISG sensing

19" Rack or Ladder Rack mount

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	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		

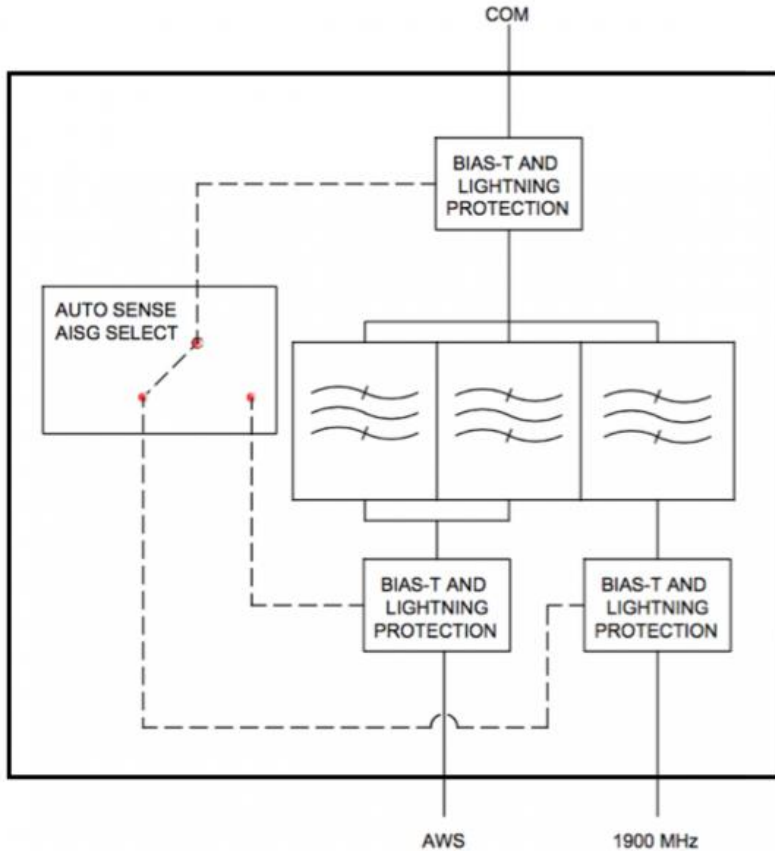
### Environmental specifications

Environmental rating	ETSI EN 300 019 class 4.1, RoHS
Ingress protection	IP67, unmated
Temperature range, °C	-40 to +65
Temperature range, °F	-40 to +149
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 <i>Port priority</i> below
Port priority (multiple AISG devices detected)	P1: AWS P2: PCS

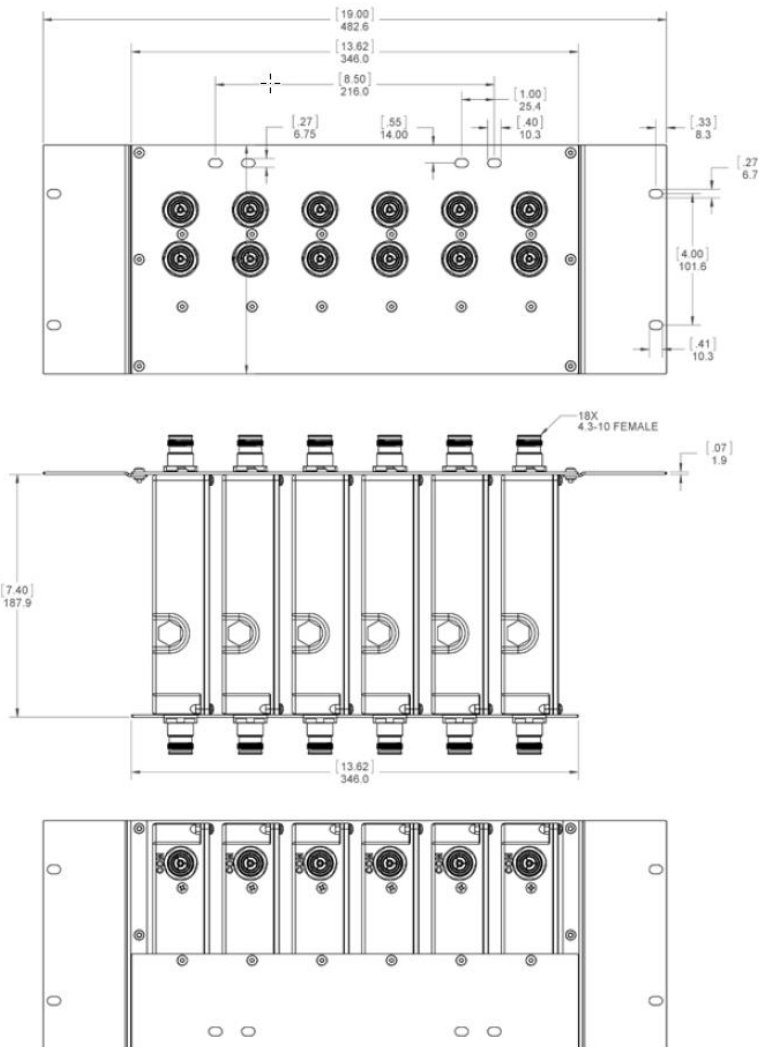


Single block diagram (6x in -6SF)

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Mechanical specifications	
Connectors RF	4.3-10 (F)
Ground stud	M6 x 1 (hex nut included)
Connectors quantity	18
Dimensions, excluding brackets and connectors L x W x H mm (in.)	186 x 483 x 177 (7.32 x 19 x 6.97)
Weight: kg (lbs.)	14 (30.7)
Mounting	Ladder rack or 19" IEC rack



Ladder rack view

Ordering information	
DBC-A-P-6SF	2B combiner rack (6) AWS/PCS, DC sense

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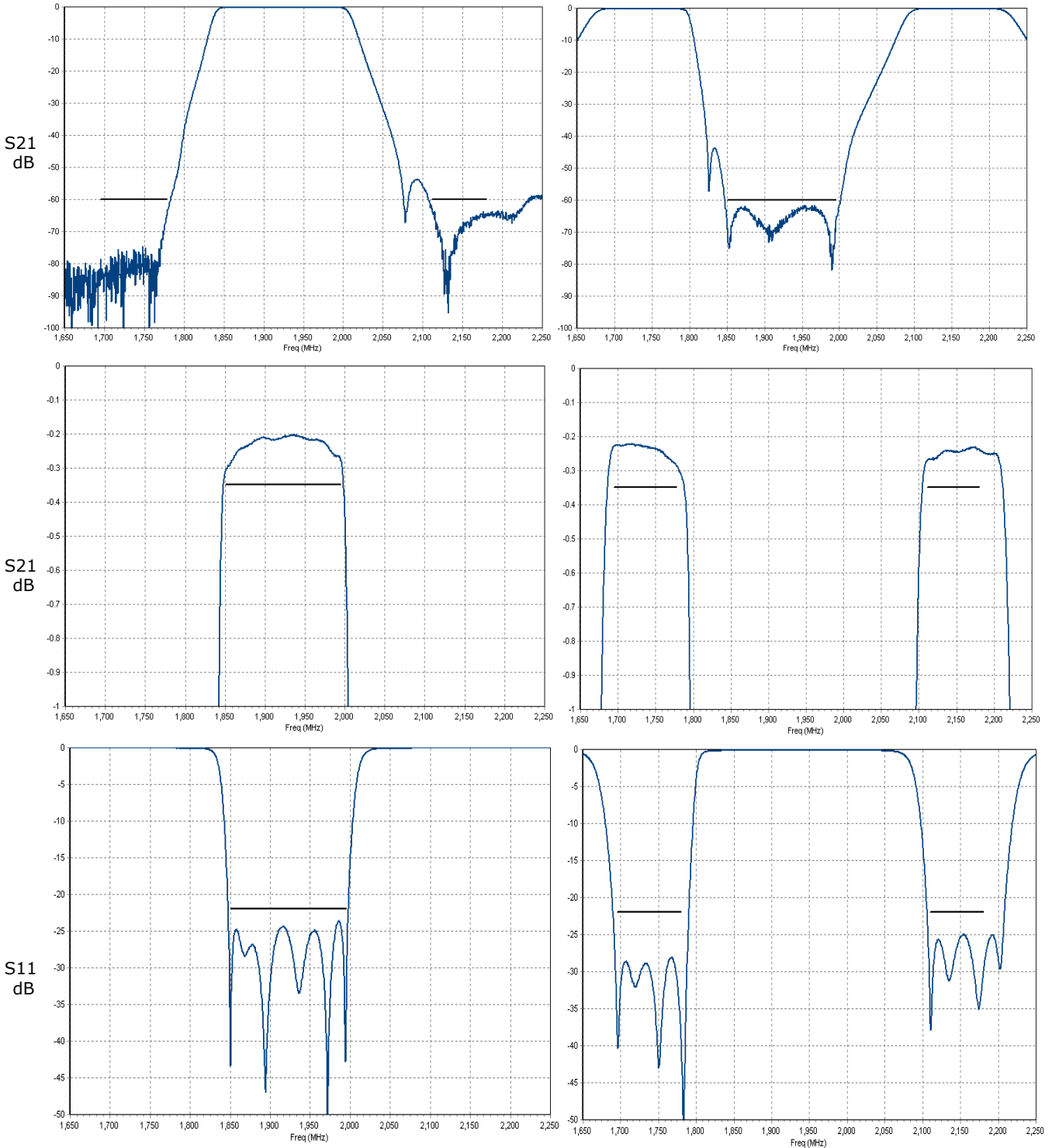
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## RF sweep plots

PCS

AWS



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