

DBC-67C-U-6SF

NWAV™ Dual-Band Combiner

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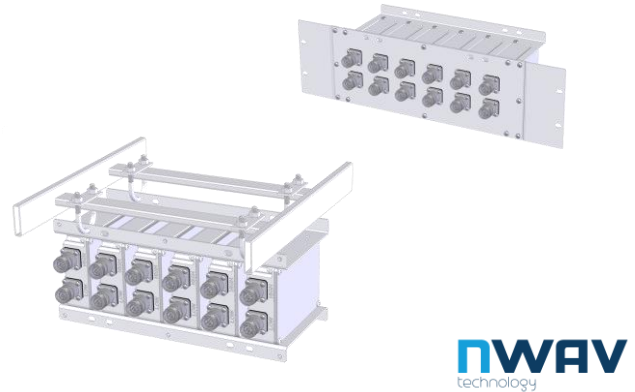
Dual-band combiner

555-960 MHz and 1695-2700 MHz

DC/AISG sensing

6-unit rack assembly

4.3-10 connectors



- Very low insertion loss and high isolation for optimized system performance
- Flexible solution for 19" rack mount or ladder rack mounting
- 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	Low band	High band
Frequency, MHz	555-960	1695-2700
Insertion loss, dB max.	0.2	0.25
Return loss, dB min.	22	
Isolation to other bands, dB	60	65
Average input power, W max.	250	
Input peak envelope power (PEP), W max.	3000	3000
PIM 2x +43 dBm, dBc min.	-156	

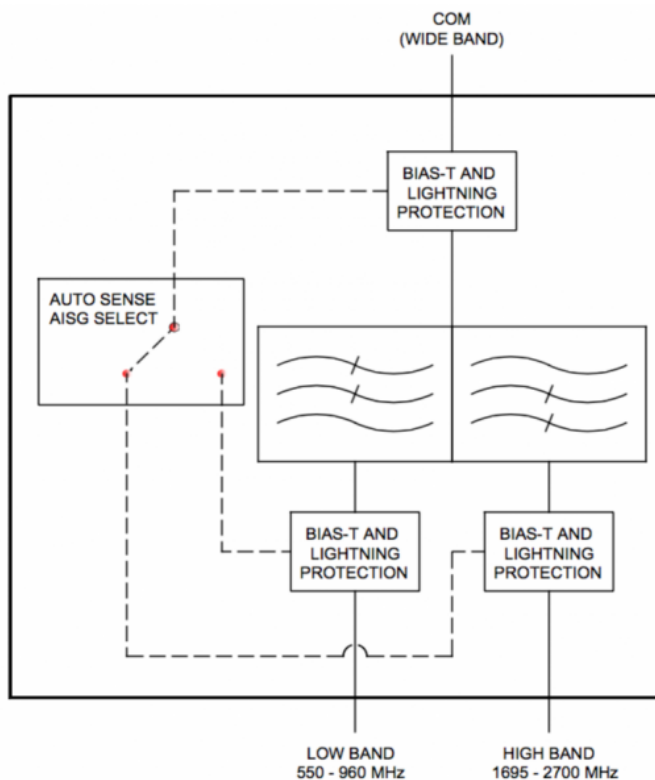
Environmental specifications

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
Wind force @ 200 km/h (125 mph) front/side, lbf	5.38 / 2.46
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 high-band or low-band port	DC-AISG connected to COM
Both ports with DC detected	DC-AISG connected from high-band 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: high-band P2: low-band

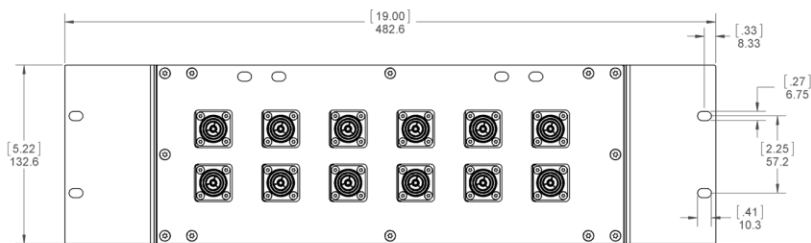


Single block diagram (6x in -6SF)

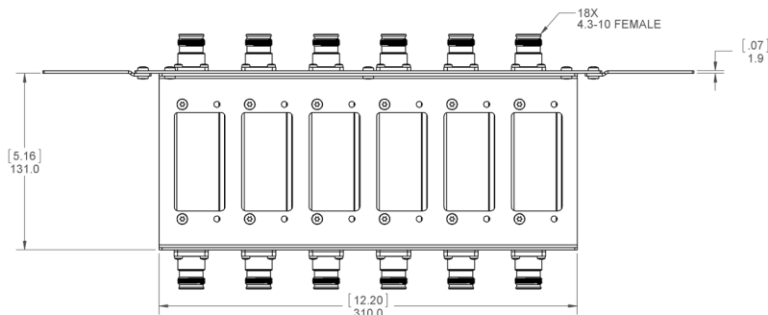
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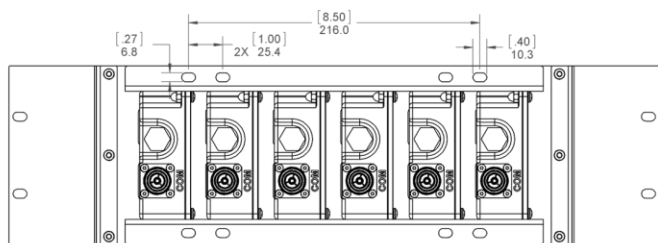
Mechanical specifications	
Connectors RF	4.3-10 (F)
Ground stud	M6 x 1 (hex nut included)
Connectors quantity	3
Dimensions, excluding brackets and connectors L x W x H mm (in.)	131 x 310 x 132 (12.2 x 5.16 x 5.22)
Weight: kg (lbs.)	8.4 (18.4)
Mounting	Ladder rack or 19" IEC rack



19" rack



Ladder rack (front panel removed)



Ordering information	
DBC-67C-U-6SF	2B comb rack (6), Lo/Hi

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RF sweep plots

LOW BAND PORTS

HIGH BAND PORTS

