

# DBC-67C-U-2WSF

## NWAV™ Dual-Band Combiner

### DBC-67C-U-2WSF

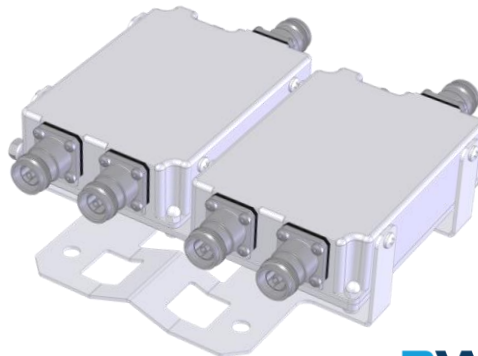
*Dual-band combiner*

*555-960 MHz and 1695-2700 MHz*

*DC/AISG sensing*

*Twin unit, side-by-side*

*4.3-10 connectors*



**nWAV**  
technology

- 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	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	

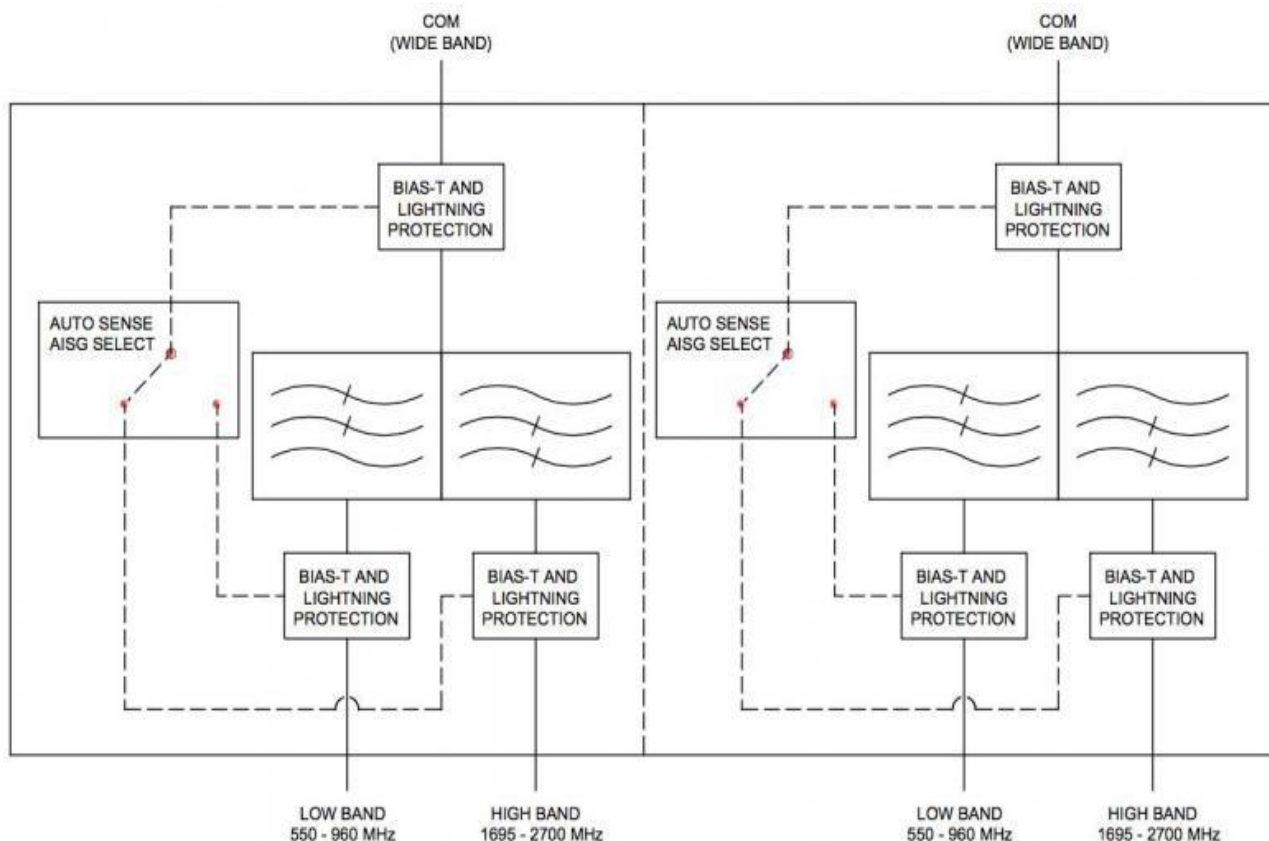
#### Environmental specifications

Environmental rating	ETSI EN 300 019 class 4.1, RoHS
Ingress protection	IP67, unmatd
Temperature range, °C	-40 to +65
Temperature range, °F	-40 to +149
Wind force @ 200 km/h (125 mph) front/side, lbf	5.38 / 4.15
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 <sup>6</sup>

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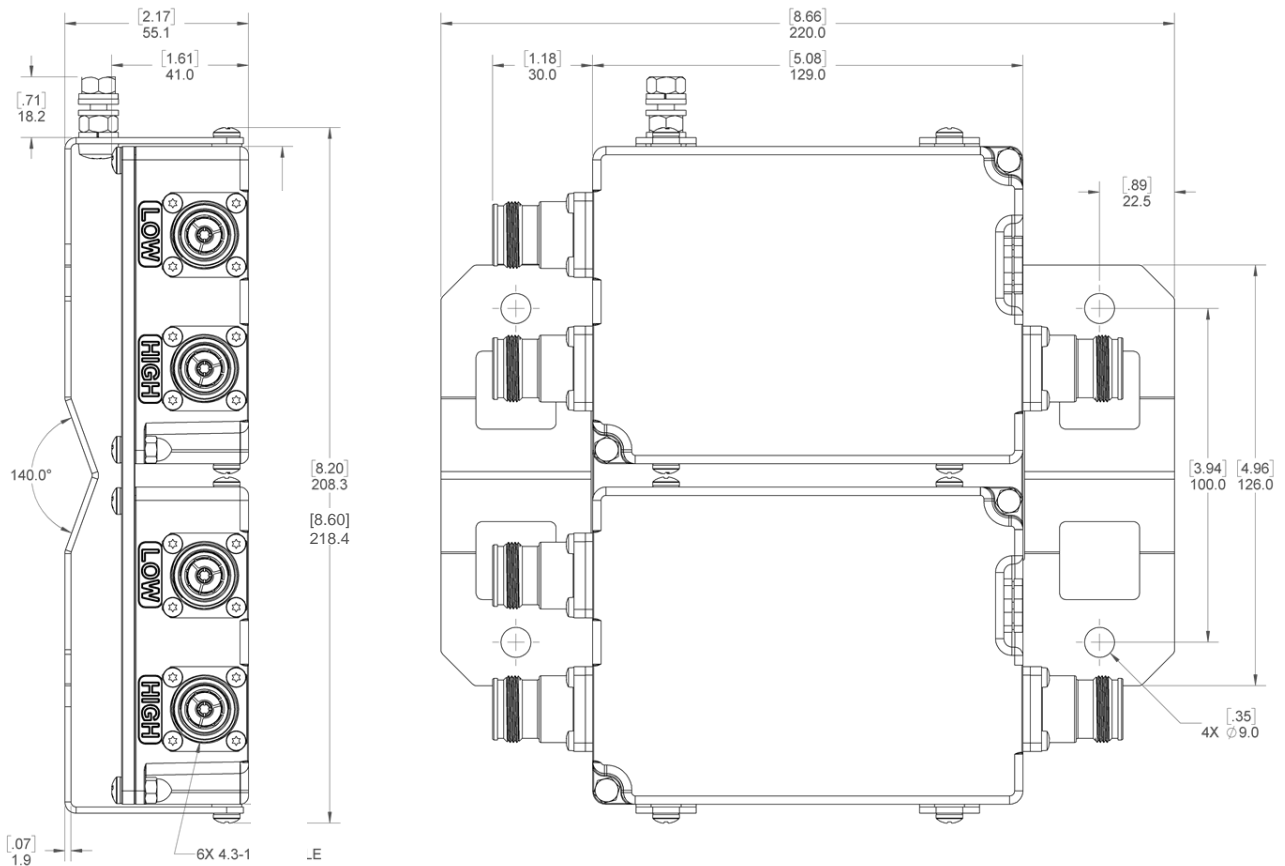
DC sense and routing specifications	
Input voltage, DCV max.	35
DC current rating amps	1.5, current limited
Compatibility AISG	1.1/2.0
Diplexer on bottom (combiner)	
DC on high-band or low-band port	DC-AISG connected to COM
Both ports with DC detected	DC-AISG connected from high-band to COM
Diplexer 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



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Mechanical specifications	
Connectors RF	4.3-10 (F)
Ground stud	M6 x 1 (hex nut included)
Connectors quantity	6
Dimensions, excluding brackets and connectors L x W x H mm (in.)	129 x 218 x 41 (5.08 x 8.6 x 1.61)
Weight: kg (lb)	2.6 (5.8)
Mounting	Pole/wall bracket supplied, including two metal clamps for 45-178 mm diameter poles



Ordering information	
DBC-67C-U-2WSF	2B combiner, lo/hi, DC sense, twin SbS, 4.3-10
Other Configurations Available	
Single:	DBC-67C-U-1SF
Twin (stacked):	DBC-67C-U-2SF
Quad:	DBC-67C-U-4SF
Rack: (6 unit 19" rack or ladder rack)	DBC-67C-U-6SF

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### RF sweep plots

LOW BAND PORTS

HIGH BAND PORTS

