

## DBC-67-C-4SF

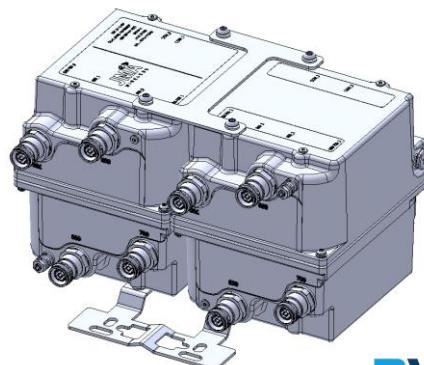
*Dual-band combiner*

600-700/850

*DC/AISG sensing*

*Quad unit*

*4.3-10 connectors*



**NWAUTM**  
technology

- Future-proofs 700/850 diplexed sites for 600 MHz installations
- 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

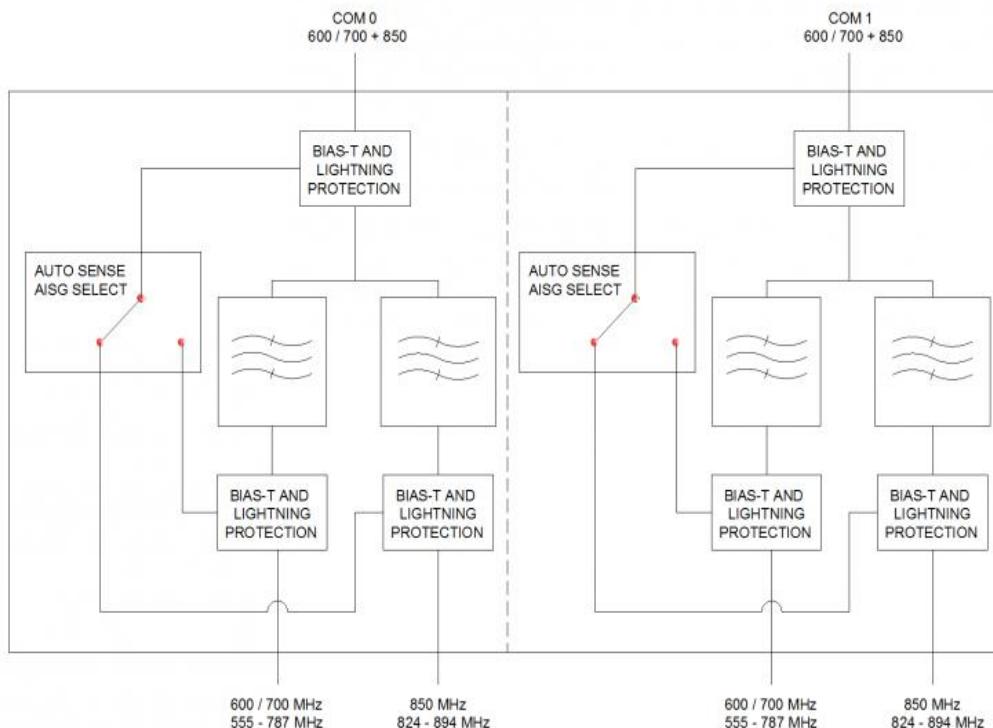
	600-700	850
Passband		
Frequency, MHz	555-787	824-894
Insertion loss, dB avg.	0.15	
Insertion loss, dB max.	0.3	
Return loss, dB min.	22	
Isolation to other bands, dB	60	
Average input power, W max.	250	
Input peak envelope power (PEP), W max.	3000	
PIM 2x +43 dBm, dBc min.	-156	

### 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	8.00 / 8.0
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

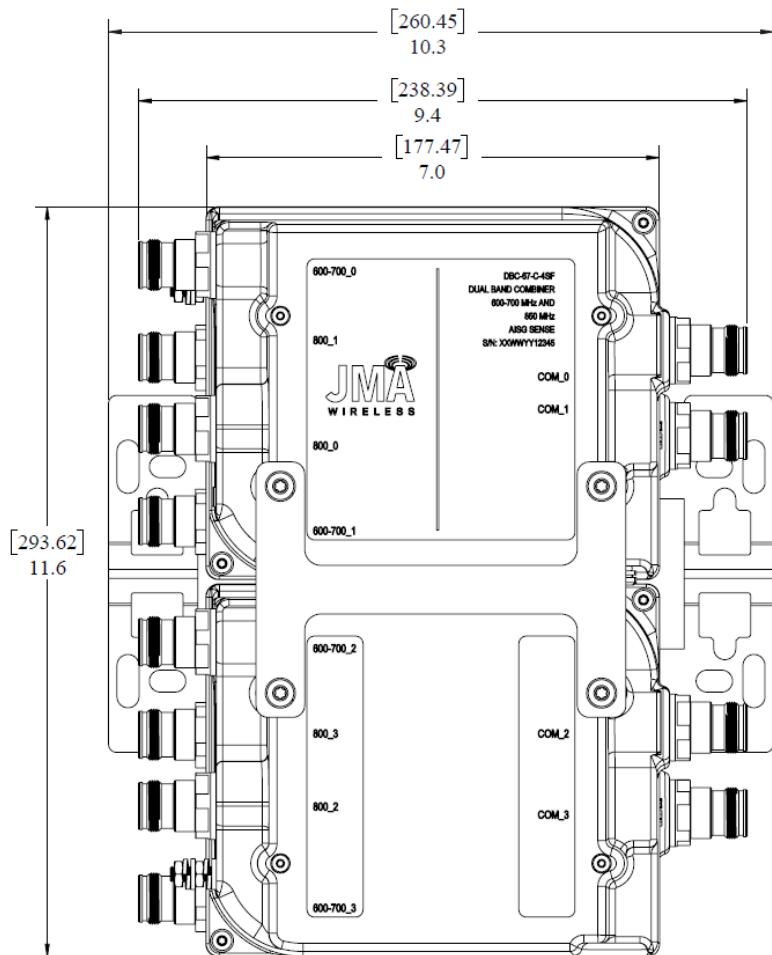
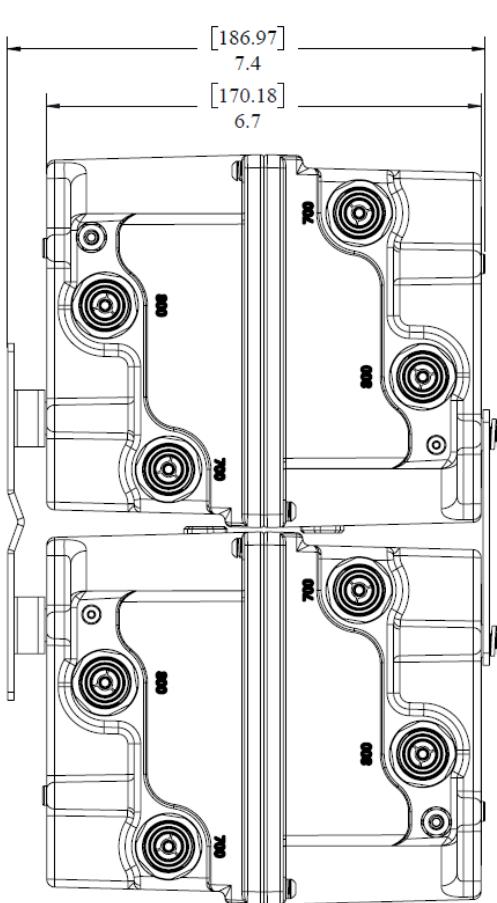
## DC sense and routing specifications

Input voltage, DCV max.	35
DC current rating amps	1.5, current limited
Compatibility AISG	1.1/2.0
<b>Diplexer on bottom (combiner)</b>	
DC on 600–700 or 850 band port	DC-AISG connected to COM
Both ports with DC detected	DC-AISG connected from 600-700 to COM
<b>Diplexer on top (splitter)</b>	
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: 600-700 P2: 850



## 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.)	293.6 x 177.5 x170 (11.6 x 7.0 x 6.7)
Weight: kg (lb)	9.2 (20.2)
Mounting	Pole/wall bracket supplied, including two metal clamps for 45-178 mm diameter poles



## Ordering information

DBC-67-C-4SF

2B combiner, 600–700/850, DC sense, QUAD

## RF sweep plots

