

Electrical Specifications, BASTA

Frequency range (MHz)	690-960			1690-2690 × 2			
	690-806	824-894	880-960	1690-1990	1920-2200	2200-2490	2490-2690
Polarization	±45°						
Electrical downtilt (°)	0 – 10			0 – 10			
Gain over all tilts	15.8±0.4	16.6±0.5	16.7±0.6	16.2±0.7	17.0±0.7	17.6±0.8	17.2±1.0
Gain by Tilt, Average, (dBi)	0° 15.7 ± 0.3	0° 16.6 ± 0.4	0° 16.7 ± 0.4	0° 16.5 ± 0.4	0° 17.2 ± 0.5	0° 17.7 ± 0.5	0° 17.5 ± 0.5
	5° 15.9 ± 0.3	5° 16.7 ± 0.4	5° 16.8 ± 0.4	5° 16.5 ± 0.4	5° 17.2 ± 0.5	5° 18.0 ± 0.5	5° 17.7 ± 0.5
	10° 15.8 ± 0.3	10° 16.6 ± 0.4	10° 16.5 ± 0.4	10° 15.9 ± 0.4	10° 16.8 ± 0.5	10° 17.3 ± 0.5	10° 16.7 ± 0.5
1 st USLS (Min.), (dB)	15	15	15	16	16	16	15
USLS, 20° above beampeak (dB)	15	15	15	16	16	16	15
Horizontal 3dB beamwidth (°)	70±4	66.5±4	65.5±4	67±7	63±6	63±4	60±4
Vertical 3dB beamwidth (°)	8.4±0.8	7.3±0.6	6.8±0.7	7.6±0.9	7.0±0.7	6.0±0.7	5.3±0.6
Front to back Total (dB)	180°	>30		>28			
	180° ± 30 °	>25		>25			
Cross polar ratio (dB)	Boresight	>18		>18			
	±60°	>7		>7			
VSWR RL (dB)	<1.5 >14						
Isolation between ports (dB)	>28						
Max. power per input (W)	500 (at 50° C environmental temperature)			250 (at 50° C environmental temperature)			
Intermodulation IM3 (dBc)	≤ -153 (2×20 W carrier)						
Impedance(Ω)	50						
Lightning protection	DC Grounded						



Mechanical Specifications

Connector	6×4.3-10 Female	
Connector position	Bottom	
Dimensions H×W×D (in) (mm)	102.2×13.74×5.0 2596×349×128	
Weight (lb) (kg)	50.7 23	
Mechanical downtilt (°)	0-10	
Mast diameter supported (in) (mm)	2.0-4.5 50-115	
Radome material / color	Fiberglass / Light grey	
Operational temperature (°C)	-55~+65	
Wind load (lbf) (N)	Front	290.0 1290 (at 150 km/h)
	Side	106.8 475 (at 150 km/h)
	Rear	336.1 1495 (at 150 km/h)
Max. operational wind speed (mph) (km/h)	93 150	
Survival wind speed (mph) (km/h)	124 200	

RET Specifications								
Protocol	AISG 2.0/3GPP							
Voltage Range	10-36V DC							
Power Consumption	<1W Idle							
	<10W Tilting							
Hardware Interface	1	2	3	4	5	6	7	8
	DC	n/c	RS-485B	n/c	RS-485A	DC in/out	DC return	n/c
Connectors	8 pin connector, male, conform to AISG 2.0 8 pin connector, female, conform to AISG 2.0							
Adjustment Resolution	0.1 degree							

