

Product Specification Sheet

Single High Broadband Antenna



Model : ST-HBB-65-21.5-VET

Xpol, 1710-2170MHz, 21 dBi, 65° , VET 0°-6°

Electrical Specifications

Frequency range (MHz)	1710 – 1880	1850-1990	1990-2170
Polarization		± 45°	
Gain (dBi), (Avg.)	20.3	20.8	21.3
Horizontal Half-power beam width (Avg.)	67°	65°	63°
Front-to-back ratio (dB)	≥ 25		
Cross polar ratio			
Main direction	0°	> 15 dB	
Sector	± 60°	> 10 dB	
Vertical Half-power beam width (Avg.)	4.5°	4.0°	3.5°
Electrical tilt		0° - 6°	
First upper side lobe suppression above main beam (dB)		At E.Tilt 0 / 4 / 6 < -16 / -16 / -16 < -16 / -16 / -16	
Impedance	50 Ω		
VSWR	< 1.5		
Isolation, between ports (dB)	> 30		
Intermodulation IM3 (2x43 dBm carrier) (dBc)	< -150		
Max power per input (W)	250		

Mechanical Specifications

Input	2 x 7/16 DIN Female
Connector position	Bottom
Wind load, frontal / lateral / rear side at 42 m/s (N)	516 / 406 / 645
Mounting brackets	Pre-mounted from factory
Weight (Without brackets) (kg)	12
Weight (With brackets) (kg)	18
Dimension (H x W x D) (mm)	2295 x 174 x 110
Radome Material	ASA
Radome Color	Light Grey
Operating Temperature (°C)	-40 to +60
Lightning protection	DC grounded

Antenna Patterns: Supplied details separately

