

# Single High Broadband Antenna



**Model : ST-HBB-33-18-VET**

**Xpol, 1710-2170 MHz, 18 dBi, 33°deg, VET 0°-15°**

## Electrical Specifications

Frequency range (MHz)	1710 – 1880	1850-1990	1920-2170
Polarization	± 45°		
Gain (dBi), (Avg.)	17	17.5	18
Horizontal Half-power beam width (Avg.)	35°	33°	31°
Front-to-back ratio (dB)	≥ 30		
Cross polar ratio (dB)			
Main direction	0°		
Sector	± 60°		
Vertical Half-power beam width ( Avg. )	14°	13°	12°
Electrical tilt (degree)	0° - 15°		
Upper sidelobe suppression above main beam (dB): first sidelobe	At E.Tilt 0 / 5 / 10 / 15 < -16 / -16 / -16 / -15		
Impedance (Ω)	50		
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)	240 / 95 / 300
Mounting brackets	Pre-mounted from factory
Weight (Without brackets) (kg)	9
Weight (With brackets) (kg)	15.5
Dimension (H x W x D) (mm)	725 x 320 x 98
Radome Material	UPVC
Radome Color	Light Grey
Operating Temperature (°C)	-40 to +65
Lightning protection	DC grounded

**Antenna Patterns: Supplied details separately**

