

6.2M VSAT Antenna

Self-aligning, stretch forming of aluminum reflector;
 Ensure high-quality antenna structure
 Assembly and test factory feed system;
 Hot-dip galvanized structural steel
 Compact packaging design for ease and low cost shipping.

VSAT Antenna	6.2M VSAT Antenna			
Operating Frequency, GHz	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
	3.625 to 4.2	5.85 to 6.425	10.95 to 12.75	13.75 to 14.5
Gain, Mid-band, dBi	46.8	50.2	56.18	57.11
Polarization	Linear/ Circular		Linear	
Axial Ratio (dB)	1.30/1.06	1.09/1.06		
VSWR	1.25	1.25	1.25	1.25
XPD (on Axis), dB	35	35	35	35
XPD across 1dB Beam Width, dB	33	33	33	33
-3dB Beam Width(deg)	0.81	0.53	0.27	0.23
Antenna Noise Temperature, 2/4-port feed				
10deg Elevation	35 K/42 K		63 K/67 K	
20deg Elevation	26 K/36 K		51 K/58 K	
40deg Elevation	24 K/33 K		49 K/52 K	
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss, dB	0.25	0.2	0.25	0.25
Isolation, Tx to Rx, dB	85			
Radiation Pattern:First Sidelobe	CCIR.580			
Environmental				
Relative Humidity	100%			
Operational Wind	72km/h Gusting to 97km/h			
Seismic (Survival)	0.3g (H), 0.15g (V)			
Temperature	- 40Deg.c to + 60Deg.c			
Survival Wind	216km/h			
Solar Radiation	1135Kcal/ h/ m ²			
Mechanical				
Surface Accuracy (RMS)	Less than 0.5mm			
Finishes				
Reflector Surface	Aluminum panels with high-diffusing white paint			
Pedestal & Back Structure	Hot-dipped Galvanized			
Azimuth	0 to 170deg			
Polarization	180deg			
Elevation	0 to 90deg			