

1.8M EARTH STATION ANTENNA

Electrical Specification For 1.8m Offset-Feed Antenna

Type	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
Operating Frequency In Ghz	N/A	N/A	12.25 -12.75	14.00-14.50
Gain - Mid Band dBi			45.4	46.37
Polarization	Linear			
XPD (on axis) dB				
XPD across 1dB B/W				
Axial Ratio 2 port (CP) 4 port				
VSWR			1.25:1	1.25:1
Antenna Noise Temp 2-Port Feed 10 deg. Elevation 30 deg. Elevation 50 deg. Elevation				
-3dB Beam Width. Mid Band			0.878	0.789
Typical G/T (El>10 deg)				
TX Power Capability				1Kw
Feed Interface			WR-75	WR-75
Feed Insertion loss dB			0.25	0.25
Isolation TX to RX dB	85			
First Side Lobe 90% Peak under Following envelope	CCIR.508-4			

Mechanical Specification For 1.8m Offset-Feed Antenna

Antenna Diameter	1.8m
Antenna Type	Off Set
Surface Accuracy	0.3
Antenna Pointing Range	
Azimuth	0 to 360
Elevation	5 to 85
Polarization	
Driver Mode	Manual or Motorised
Motor Drive System	
Azimuth Travel Rate	0.30 deg/sec (0.06deg/sec)
Elevation Travel Rate	0.20 deg/sec (0.04deg/sec)

Environmental Specification

Operational Wind Speed	72km/h gusting to 97km/h
Survival Wind	200km/h
Temperature	-40 deg c to +60deg c
Relative Humidity	100%
Solar Radiation	
Seismic (Survival)	