2.4M EARTH STATION ANTENNA

Electrical Specification

Type	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
Operating Frequency In Ghz	3.625-4.20	5.85-6.425	10.95-12.75	13.75-14.50
Gain - Mid Band dBi	38.18	41.76	47.48	48.49
Polarization	Linear/Circular		Linear	
XPD (on axis) dB	35	35	35	35
XPD across 1dB B/W	33	33	33	33
Axial Ratio 2 port (CP) 4 port	1.30	1.90		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temp 2-Port Feed 10 deg. Elevation 30 deg. Elevation 50 deg. Elevation	 32k 24k 20k		 52k 38k 34k	
-3dB Beam Width. Mid Band	2.03	1.34	0.69	0.59
Typical G/T (El>10 deg)	20dB/k**		27.1dB/k**	
TX Power Capability		5Kw		1Kw
Feed Interface	CPR-229F	CPR-137F	WR-75	WR-75
Feed Insertion loss dB	0.2	0.2	0.25	0.25
Isolation TX to RX dB	85		85	
First Side Lobe 90% Peak under Following envelope	-14 29-25log theta		-14 29.25log theta	

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Mechanical Specification 2.4M Earth Station Antenna

Antenna Diameter	**2.4m**
Antenna Type	**Ring Focus**
Surface Accuracy	**<0.35mm**
Antenna Pointing Range	
Azimuth	**0 to 360 deg (continuous)**
Elevation	**0 to 90 deg (continuous)**
Polarization	**+/- 90 deg (continuous)**
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	**1135Kcal/h/m2**
Seismic (Survival)	**0.3g(h) 0.15g (v)**
Ice Loading	**13mm operational; 25mm Survival**

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