



**ELECTRICAL SPECIFICATION**

Diameter	4.5M			
Operating Frequency, GHz	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
	3.625~4.2	5.85~6.425	10.95~12.75	14.0~14.5
Gain, Mid-band, dBi	43.64	47.22	53.4	54.33
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB for LP	35	35	35	35
XPD across 1dB Beam Width, dB for LP	33	33	33	33
Axial Ratio (dB) for CP 2/4 port	1.30/1.06	1.06/1.06		
VSWR	1.25:1	1.25:1	1.25:1	1.25:1

Antenna Noise Temperature, 2-port feed 10° Elevation 20° Elevation 40° Elevation	36°K 27°K 24°K		60°K 50°K 44°K	
-3dB Beam Width	1.08°	0.715°	0.35°	0.315°
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-159G/137G	WR-75	WR-75
Feed Insertion Loss, dB	0.15	0.2	0.25	0.25
Isolation, Tx to Rx, dB	85			
Radiation Pattern:First Sidelobe	CCIR.580-4			

**MECHANICAL SPECIFICATION**

Antenna Type	Ring Focus Antenna
Antenna Pedestal Type	Kingpost Pedestal
Finishes Reflector Surface Pedestal & Back Structure	Aluminum panels with high-diffusing white paint Hot dipped Galvanized
Surface Accuracy (RMS)	≤ 0.35mm
Azimuth	±85°
Elevation	0°~90°
Antenna Drive	Manual or Motorized drive

**ENVIRONMENTAL SPECIFICATION**

Operational Wind	72km/h Gusting to 97km/h
Survival Wind	216km/h
Temperature	- 40°C ~ + 60°C
Relative Humidity	100%
Solar Radiation	1135Kcal/ h/ m <sup>2</sup>
Seismic (Survival)	0.3g (H), 0.15g (V)

