



Electrical Specification

Diameter	20M	
Operating Frequency, GHz	Receive	Transmit
	3.4-4.2	5.85-6.425
Antenna Gain, dBi	56.85+20lg f/4	60.30+20lgf/6
Cross Polarization Isolation for LP	On Axis: 35dB, Within 1dB beamwidth:30dB	
Axial Ratio (dB) for CP	0.5dB per port	
VSWR	CP:1.25:1	LP:1.3:1
Antenna Noise Temperature: 10deg Elevation	36K	
-3dB Beam Width(deg)	0.24	0.16
Total Power Handling Capability	5kw (cw) per Tx port	
Feed Interface	CPR-229G	CPR-159G/137G
Feed Insertion Loss, dB	0.3	0.3
Port to Port Isolation: Tx to Rx(Tx Freq) Rx to Rx Tx to Tx(Same Band)	85dB	
	CP: 20dB	LP: 30dB
	CP: 20dB	LP: 30dB
Radiation Pattern:First Sidelobe	CCIR.580	

Mechanical Specification

Azimuth	0 to170deg continuous (w.r.t true south)
Elevation	5 to 90deg (continuous)
Finishes: Reflector Surface Pedestal & Back Structure	Aluminum panels with high-diffusing white paint
	Galvanized steel
Surface Accuracy	0.7mm (R.M.S)

Environmental Specification

Operational Wind	72km/h Gusting to 100km/h
Survival Wind	200km/h
Rain	Up to 100mm/h operational and survival
Relative Humidity	Up to 100% operational and survival
Temperature	- 40Deg.c to +60Deg.c
Radial Ice(Survival)	25mm on all surface
Shock and Vibration	As encountered during shipment by commercial air, sea, or truck
Corrosive atmosphere	As encountered in coastal regions and/or heavily industrialized areas
Seismic (Survival)	0.3g (H), 0.15g (V)