



ELECTRICAL SPECIFICATION

Operational	C-Receive	Ku- Receive
Frequency(GHz)	3.625-4.2	10.95-12.75
Antenna Gain(dB)	51.85	61.4
VSWR	1.25:1	1.3:1
Beam Width : -3dB	0.42°	0.4°
Polarization	Linear/Circular Polarized	Linear Polarized
Axis Ratio for circularPol.	0.5dB	
Noise Temperature (°K)	2 port feed	
10°EL	39	80
20°EL	30	72
40°EL	27	67
Feed Interface	CPR-229G	WR-75
Feed Insertion Loss(dB)	0.25	0.25
	Isolation between ports for LinearPol >20dBIsoletion between	

Port Isolation	ISOLATION BETWEEN PORTS FOR LINEAR POL. ≥ 30 dB ISOLATION BETWEEN ports for circular Pol. ≥ 20 dB	
XPD	On Axis ≥ 35 dB	
	Across 1dB beam width ≥ 33 dB	
Side lobes	CCIR580	
MECHANICAL SPECIFICATION		
Antenna Type	Ring-focus Antenna	
Antenna Mount Type	Kingpost pedestal	
Surface Accuracy (R.M.S)	≤ 0.35 mm	
Azimuth Travel Range	$\pm 85^\circ$	
Elevation Travel Range	$0^\circ \sim 90^\circ$	
Antenna Drive Mode	Motorized	
ENVIRONMENTAL SPECIFICATION		
Operational Wind	45mi/h (72km/h) to 60mi/h (97Km/h)	
Survival Wind	125mi/h (200Km/h)	
Temperature	$-45^\circ \sim +60^\circ$	
Relative Humidity	0% ~ 100%	
Seismic	Horizontal	0.3g
	Vertical	0.15g
Snow	30mm	
Ice	25mm	

