



Model 4508 Wide Band Compact Cassegrain C Band & Ku Band LMA Antenna

Electrical Specifications

	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
Operating Frequency (GHz)	3.7-4.2	5.850-6.425	12.25-12.75	13.75-14.5
	3.4-4.2	5.925-6.725	10.7-12.75	
Typical Gain (dBi)	43.6	47.3	53.63	54.7
Axial Ratio (Circular Polarized) 2-Port Feed	1.3	1.09		
VSWR	1.25:1	1.25:1	1.25:1	1.25:1
Antenna Noise Temperature	2-Port Feed		2-Port Feed	
10° Elevation	36		50	
20° Elevation	30		44	
40° Elevation	25		38	
Beamwidth (-3dB -15dB)	1.09°	0.71°	0.35°	0.3°
	2.4°	1.42°	0.57°	0.63°
Power Capability		5kw		1kw
Feed Interface	CPR-229	CPR-137	WR-75	WR-75
Feed Insertion Loss (dB)	0.25	0.2	0.25	0.4
Port-Port Isolation Tx To Rx (dB)		≥85dB		≥85dB
Cross Polarization Isolation (on axis)	35dB	35dB	35dB	35dB
Sidelobes	CCIR,580			

Mechanical Specifications

Motor Drive System	Azimuth Travel Rate ±60° Elevation Travel Rate 5° to 90°
Surface Accuracy (RMS)	0.5mm
Finish	White paint

Environmental Specifications

Operational Wind	45mph (72km/h) Gusts To 60mph (97km/h)
Survival Wind	125mph (200km/h)
Ambient Temperature	-15°C to +50°C
Relative Humidity	0% to 98%
Seismic (Survival)	0.3G's Horizontal 0.15G's Vertical

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