



ASI 3.7-Meter Antenna Ku-Band

RF SPECIFICATIONS			MECHANICAL SPECIFICATIONS	
	Receive	Transmit	Azimuth Travel	360°
Frequency	10.7-12.95GHz	13.75-14.5GHz	Azimuth Travel Rate	0.5°/s
Gain at Midband	51.5dB	52.3dB	Elevation Travel	5°-90° continuous
VSWR	1.25:1	1.25:1	Elevation Travel Rate	0.5°/s
Beamwidth (-dB)	0.44°	0.38°	Polarization Travel	±90°
Antenna Noise Temperature			Materials above the hub	Aluminum, Steel, Stainless Steel
5° Elevation	40°K	69°K	Reflector Finish	White Paint
10° Elevation	29°K	54°K	Steel Parts Finish	Hot Dipped Zinc
20° Elevation	26°K	45°K	Weight (Gross / Net)	695kg / 420 kg
30° Elevation	21°K	42°K	Shipping Volume	4.6m ³
Typical G/T at 20° Elevation	22.7dB/°K	29.95db/°K	(one 20' container, 5 packages)	
Clear Horizon, 4GHz with 55°K LNA	11.85GHz, with 90°K LNA		ENVIRONMENTAL SPECIFICATIONS	
Power Handling Capability			2kW	Operational Wind Speed
				35m/s
Feed Interface	WR-75F	WR-75G	Survival Wind Speed	55m/s
Feed Insertion Loss	0.25dB	0.4dB	Ambient Temperature	-50°-60°
Cross Polarization Isolation			Rain (operational and survival)	10cm/h
On Axis	35dB	35dB	Solar Radiation	1000kcal/hm ²
Within 1 dB Beamwidth	30dB	30dB	Relative Humidity	0%-100%
Port to Port Isolation (Tx-Rx with Filter)			≥85dB	Radial Ice
Sidelobes				2.5cm
			Seismic (survival)	0.3G's Horizontal
1st sidelobe	-14dB			0.1G's Vertical
100λD°≤θ≤48°	29-25LogθdBi			