

## GS3.7m Rx antenna

### Key Features

- \* Meets CCIR 580-5 and INTELSAT Requirements
- \* High G/T, Excellent Pattern Characteristics
- \* Hot-dipped Galvanized Steel Ground Mount Assembly
- \* Stretch Formed Aluminum Reflector with High Precision.
- \* C-band/ku-band/ka-band/S-band/L-band frequency
- \* High Erosion Resistance
- \* Foundation Hardware Kit included
- \* Ocean or Air Transport Packing
- \* Excellent in Stability
- \* Survives 125 mph Winds

### Antenna accessories

- \* Motorized kits
- \* Single/Dual Polarization as option
- \* Linear Polarization or Circular Polarization to C band
- \* Factory Feed System Testing and Documentation
- \* Grounding kit
- \* Lightning Rod Kit
- \* Cable-Mounting Kit
- \* Major Subsystem Spare Part Kits
- \* Anti-icing and Deicing

### ELECTRICAL SPECIFICATION

ANTENNA	C-BAND	Ku-BAND	
Frequency	3.4-4.2GHz	10.95-12.75 GHz	
VSWR	1.3:1		
Insertion Loss	0.25dB	0.3dB	
Isolation	35dB		
Feed Interface	WR229	WR75	
3dB Beamwidth	1.44°	0.484°	
Sidelobe Level	D/λ≥150	29-25 lgθ 32-25lgθ -10	1°≤θ≤20° 20°<θ≤48° θ>48°
	100<D/λ<150	29-25 lgθ 8 32-25lgθ -10	1°≤θ≤7° 7°<θ≤9.2° 9.2°<θ≤48° θ>48°
	D/λ≤100	52-10lg(D/λ)- θ 10-101g(D/λ)	100λ/D≤θ≤48° θ>48°
	First Sidelobe	≤-14dB	
	Gain	41.15dB (F=3.8 GHz)	50.61dB (F=11.8 GHz)
	Noise Temperature	35°K@10°	49°K@10°

### MECHANICAL SPECIFICATION

Antenna Optics	Feed-forward antenna	
Elevation Adjustment	0°to 90°Continuous Fine Adjustment	
Azimuth Adjustment	manual motorization	0°to 360°Continuous Fine Adjustment ±85°Continuous Adjustment(Into three sections)

### ENVIRONMENTAL SPECIFICATION

Wind Loading	45mph	72kmph	operational (Maintain Precision)
	60mph	97kmph	operational (Decrease Precision)
	125mph	200kmph	Survival (Fixed Heavenward)
Temperature	-45°~50°C		
Relative Humidity	0%~100%		
Seismic(survival)	0.3G's horizontal 0.15 G's vertical		

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