

GS3.0m 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/F	WR75/F
3dB Beamwidth	1.77°	0.597°
Sidelobe Level	$D/\lambda \leq 100$ $52-10\lg(D/\lambda)-25\lg\theta$ $10-10\lg(D/\lambda)$ $100 < D/\lambda < 150$ $29-25 \lg\theta$ 8 $32-25\lg\theta$ -10	$100\lambda/D \leq \theta \leq 48^\circ$ $\theta > 48^\circ$ $1^\circ \leq \theta \leq 7^\circ$ $7^\circ < \theta \leq 9.2^\circ$ $9.2^\circ < \theta \leq 48^\circ$ $\theta > 48^\circ$
First Sidelobe	$\leq -14\text{dB}$	
Gain	39.33dB (F=3.8 GHz)	48.79 dB (F=11.8 GHz)
Noise Temperature	34°K@10°	48°K@10°

MECHANICAL SPECIFICATION

Antenna Optics	Feed-forward antenna
Elevation Adjustment	0° to 90° Continuous Fine Adjustment
Azimuth Adjustment	0° to 360° Continuous Fine Adjustment

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