

## **GS6.2m Rx antenna**

### **Key Features**

- \* Meets CCIR 580-5 and INTELSAT Requirements
- \* Dual Reflector
- \* 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
- \* 2 port or 4 port available as option
- \* 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
- \* Lightening Rod Kit
- \* Cable-Mounting Kit
- \* Major Subsystem Spare Part Kits
- \* Anti-icing and Deicing

## **GLOBAL STAR SATELLITE ANTENNA CO;LTD**

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### ELECTRICAL SPECIFICATION

ANTENNA	C-BAND	Ku-BAND
Frequency	3.4-4.2GHz	10.95-12.75 GHz
VSWR	1.25:1	1.3:1
Insertion Loss	0.25dB	0.3dB
Isolation	35dB	
Feed Interface	WR229	WR75
3dB Beamwidth	0.825°	0.277°
Sidelobe Level	$D/\lambda \leq 100$ $52-10\lg(D/\lambda)-25\lg\theta$ $10-10\lg(D/\lambda)$ $D/\lambda \geq 150$ $29-25\lg\theta$ $32-25\lg\theta$ $-10$	$100\lambda/D \leq \theta \leq 48^\circ$ $\theta > 48^\circ$ $1^\circ \leq \theta \leq 7^\circ$ $20^\circ < \theta \leq 48^\circ$ $\theta > 48^\circ$
First Sidelobe	$\leq -14\text{dB}$	
Gain	45.98dB (F=3.8GHz)	55.47dB (F=11.8 GHz)
Noise Temperature	36°K@10°	50°K@10°

### MECHANICAL SPECIFICATION

Antenna Optics	Feed-backward antenna
Elevation Adjustment	0° to 90° Continuous Fine Adjustment
Azimuth Adjustment	$\pm 85^\circ$ 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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