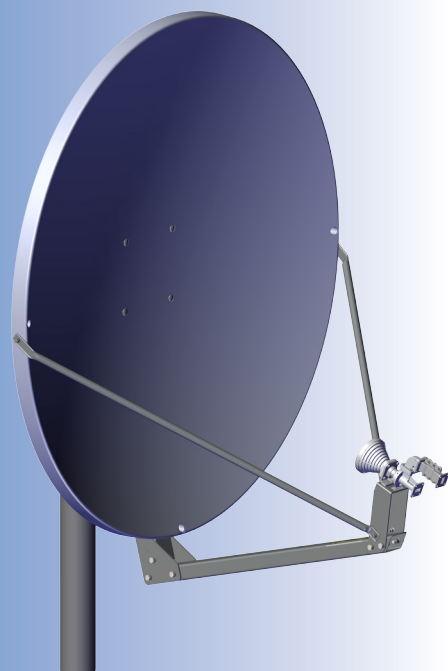


1.2m Ku RxTx Class IIIH Antenna System



RF Performance



	MODEL#	123H39 Ku Band
Effective Aperture		1.2m (47 in)
Operating Frequency	Tx	13.75-14.50 GHz
	Rx	10.70-12.75 GHz
Polarization		Linear, Orthogonal, Co-Pol Optional
Gain (± 0.2 dB)	Tx	43.3 dBi @ 14.20 GHz
	Rx	41.1 dBi @ 11.20 GHz
3dB Beamwidth	Tx	1.2° @ 14.20 GHz
	Rx	1.6° @ 11.20 GHz
Sidelobe Envelope (Tx, Co-Pol dB)		
	100 $\lambda/D < \Theta < 20^\circ$	29 - 25 Log Θ dB
	20° < $\Theta < 26.3^\circ$	-3.5 dB
	26.3° < $\Theta < 48^\circ$	32-25 Log Θ dB
	48° < $\Theta < 180^\circ$	-10 dB (averaged)
Antenna Cross-Polarization		30 dB within 1 dB contour
Antenna Noise Temperature*		
	10° El.	63K
	20° El.	54K
	30° El.	50K
VSWR	Tx	1.3:1 Max
	Rx	1.5:1 Max
Isolation (Port to Port)	Tx	85dB
	Rx	40dB
Feed Interface		WR75

Product Specification

- Stainless Steel hardware with EP version
- Hot Dipped Glvanized Heavy Duty Mount
- ISO 9001:2008 Certificate of Registration
- Design to meet or exceed regulatory agency requirements
 - Intelsat
 - Eutelsat
 - FCC

Mechanical Performance

Reflector Material	Glass Fiber Reinforced Polyester
Max Feed Weight	25 lbs
Antenna Optics	One-Piece Offset Feed Prime Focus
Mount Type	Elevation over Azimuth
Elevation Adjustment Range	5° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous, $\pm 5^\circ$ Fine
Mast Pipe Interface	3.5" sch 40 or 80 (89mm Diameter)
Wind LoadingOperational 105 km/h (65 mph)
	Survival 240 km/h (150 mph)
Temperature	-50°C to 80°C
Humidity	0 to 100% (Condensing)
Atmosphere	Standard Hardware Meets 720 Hour Salt Spray Test Requirements (ASTM B-117)
Solar Radiation	360 BTU/h/ft2
Shock and Vibration	As Encountered During Shipping and Handling

*Gain and Noise Temperature at Feed Horn Flange
(All Specifications Typical)



REV 03/18 - 02

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