



# SUMERU MICROWAVE COMMUNICATIONS

## Salient Features

- Single piece compression molded thermoset offset reflector
- Fine adjustments in both axis
- Hot dip galvanized steel or powder coated mount for extreme environmental conditions
- Hardware with improved environmental resistance
- The antenna meets applicable ITU recommendations
- Other frequency bands are available. Please contact our marketing representatives

# 1.2 Mtr Ku-Band VSAT Antenna



REFLECTOR MODEL # 101012026  
FEED MODEL # F101023160

## ELECTRICAL PERFORMANCE

PARAMETER	VALUE
Reflector Size	1.2 m
Operating Frequency	Tx:- 13.75-14.50 GHz Rx:- 10.70-12.75 GHz
Polarization Sense	Linear Orthogonal Orientable
VSWR	Tx:- 1.28:1 Rx:- 1.35:1
Mid Band Gain (±0.5 dB)	Tx:- 43.2dbi Rx:- 41.1dbi
Sidelobe Envelope	ITU 580-6
Antenna Noise Temperature	42°K @30°EL
Antenna Cross Polarization	
On axis(db)	30db
Within in 1db	25db
Beamwidth	
Feed Interface Port	
	Tx:- WR75 Rx:- WR75

- The Sumeru 1.2 m Trans-receive antenna is designed and manufactured for enduring conditions.
- The reflector is compression molded thermoset offset reflector. It has inherent closely placed rib structure on the back of reflector to give enhanced strength for wind loading and also maintain the required parabolic shape for ku-band application.
- The reflector has excellent reflectivity for Ku-band application. The mount is manufactured using steel section to provide rigid support to the reflector for good pointing accuracy required for Ku- band beam-width. The mount is hot dip galvanized for extraordinary resistance to extreme environment conditions

## MECHANICAL PERFORMANCE

PARAMETER	VALUE
Reflector Material	Compression Molded Glass Fibre Reinforced Polyester
Antenna Optics	Prime Focus, Offset Fed
Mount Type	Elevation Over Azimuth
Mount Material	Mild Steel (Hot dip Galvanized Or Powder Coated)
Steerability	
Azimuth	±360° Coarse, ±20° fine
Elevation	0° to 90° fine

## ENVIRONMENTAL PERFORMANCE

PARAMETER	VALUE
Wind loading	
Operational	80 kmph
Survival	200 kmph
Temperature	
Operational	-40°C TO 60°C
Survival	-50°C TO 70°C
Humidity	95% AT 40°C
Rain	
Operational	½" /hr
Survival	2" /hr
Solar Radiation	360 BTU/h/ft²
Shock & Vibration	As Encountered During Shipping And Handling

Specifications subject to change without prior notice.  
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