



DESCRIPTION

The Sumeru 1.8 m Trans-ceive 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

SALIENT FEATURES

Single piece compression molded thermoset offset reflector.

Fine adjustments in both axis.

Hot dip galvanized steel 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

Electrical Performance

PARAMETER	VALUE
Reflector Size	1.8 m
Operating Tx:-	13.75 - 14.50 GHz
Frequency Rx:-	10.70 - 12.75 GHz
Polarisation	Linear Orthogonal
Sense	Orientable
VSWR Tx:-	1.3:1
Rx:-	1.3:1
Mid Band Gain Tx:-	46.80 dBi
(± 0.2 dB) Rx:-	45.30 dBi
Sidelobe Envelope	ITU 580-6
Antenna Noise Temperature	29°K @ 30°EL
Antenna Cross Polarisation on axis(db)	30 dB
1° off axis	25 dB
Feed Interface Port	
Tx:-	WR75
Rx:-	WR75

Mechanical Performance

PARAMETER	VALUE
Reflector Material	Compression Molded GFRP
Antenna Optics	Prime Focus, Offset Fed
Mount Type	Elevation Over Azimuth
Mount Material	Mild Steel - Hotdip Galvanised
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/fto
Shock & Vibration	As Encountered During Shipping And Handling

* SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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