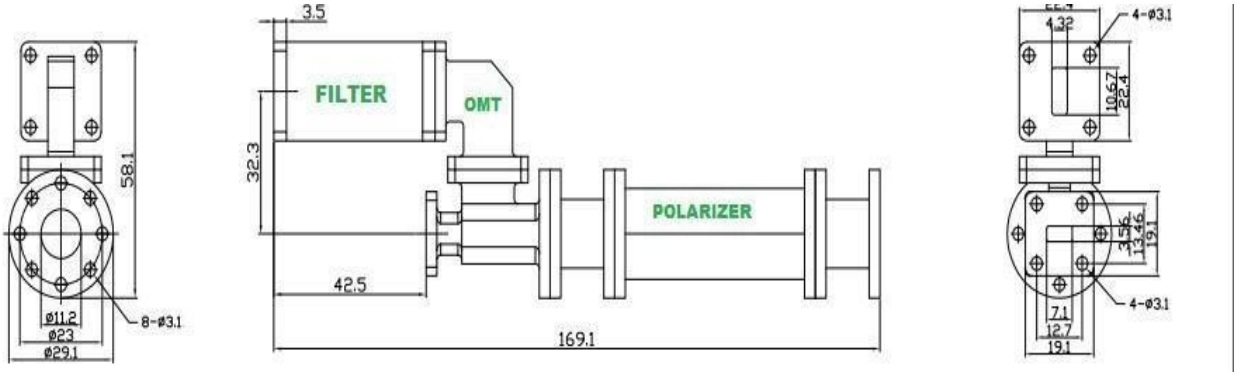

1.2 Mtr. Standard Ku-BandAntenna

Overview

Digisat has designed & manufacturing Ku-Band Transmit-Receive, Offset/prime focus Vsat Antenna System to consider global coverage & compliance in term of 1.2M

Ku-Band Offset Antenna is a rigid/rugged com Vsat Antenna suitable for Global Vsat Network.

The reflector is GFRP compression molded for strength and surface accuracy. Uniform Molded into the rear of the reflector is a left & right support ribs which not only strengthens the antenna, but also helps to sustain its critical parabolic shape. This ensures outstanding RF performance for transmit and receive ap- plications such as Hughes ON service and remote satellite broadband applications.

Single/One Piece Rugged Reflector Mount

AZ/EI mount is constructed from heavy-gauge steel solid Rod to provide a rigid support to the reflector.

The AZ/EI mount secures the antenna to either a 62 mm or 75 mm.

Corrosion Proof Back structure in Eye shape to support securely to reflector.

A specially formulated powder coating paint process offers excellent protection from weather-related cor- rosion. (Galvanized also available as optional) Plated hardware kit, powder coated Feed mount.

Key Features

- One-piece GFRP -offset reflector
- Single bolt fine elevation adjustment
- Galvanized/ Polyester powder coated 19 mm 1.75"] O.D. feed support legs
- Factory pre-assembled Az/El mount
- Plated hardware for maximum corrosion resis- trance free.
- Available with a wide variety of Ku-band feeds as option

Electrical

Antenna Size
1.2m (48 in.)

Operating Frequency (GHz)
Receive = 10.70-12.75 GHz
Transmit = 13.75-14.50 GHz

Midband Gain (+/- .3 dBi)
Receive = 41.5 dB
Transmit = 43.0 dB

Antenna Noise Temperature
20° Elevation = 46°K 30°
Elevation = 43°K

Antenna Sidelobe Envelope
Per ITU-R S.580-6

Antenna Beamwidth
Receive = 1.5°
Transmit = 1.2°

Polarization
Linear, Orthogonal

Cross-Pol Isolation
30 dB on Axis
26 dB in 1 dB Contour

Feed Specifications – Standard RxTx

Operating Frequency (GHz)
Receive = 10.70-12.75 GHz
Transmit = 13.75-14.50 GHz

Port-Port Isolation

Transmit = 85 dB Min
Receive = 30 dB Min

VSWR
Transmit = 1.3:1 Max
Receive = 1.5:1 Max

Insertion Loss
Transmit = 0.2 dB Max
Receive = 0.4 dB Max

Mechanical Performance

Reflector Material
Glass Fiber Reinforced Polyester SMC

Antenna Optics
Prime Focus, Offset, 0.8 F/D

Mount Type
Elevation over Azimuth

Elevation Adjustment Range
5° to 90° Continuous Fine Adjustment

Azimuth Adjustment Range
360° Continuous, +/- 20° Fine Adjustment

Mount Material
mild steel (hop dip galvanized or powder coated)

Gross Antenna Weight
34kg. (appx)

Environmental Performance

Wind Loading
Operational = 50 mi/h (72 km/h)
Survival = 125 mi/h (200 km/h)

Temperature
Operational = -40° to 140° F (-40° to 60° C)
Survival = -50° to 160° F (-46° to 71° C)

Rain
Operational = ½ inch/h (13mm/h)
Survival = 2 inch/h (51mm/h)

Ice
Survival = ½ inch (13mm) Radial Ice

Atmospheric Conditions
Salt, Pollutants, and Contaminants as Encounered in Coastal and Industrial Areas

Solar Radiation
360 BTU/h/ft2 (1135 W/m2)

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