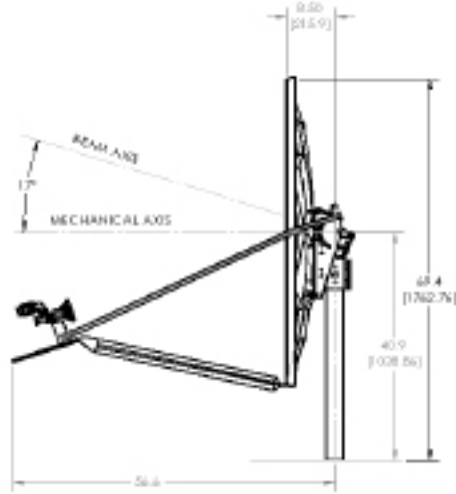


Type 123 Class II / 1.2m Ku-Band Offset Antenna with XPC Feed



- All materials comply with EU directive No. 2002/95/EC (RoHS).
- Long focal length optics for low cross-pol performance.
- Fine azimuth and elevation adjustments.
- Available with Ku-band co-pol or cross-pol feeds.
- Galvanized 19 mm (.75") O.D. side feed support legs and 51 mm (2") O.D. lower feed support.
- Plated hardware for maximum corrosion resistance.



- Class II system designed for typical 2 W and 4 W Ku-band Block Up-Converters (BUCs).*

*3.6 kg or 8 lb max. weight for RF

RF Performance

Operating Frequency	
Tx	13.75 - 14.50 GHz
Rx	10.70 - 12.75 GHz
Polarization Linear, Orthogonal	
Gain (±0.5 dB)	
Tx	43.3 dBi @ 14.3 GHz
Rx	41.8 dBi @ 12.0 GHz
3 dB Beamwidth	
Tx	1.2° @ 14.3 GHz
Rx	1.5° @ 12.0 GHz
Sidelobe Envelope (Tx, Co-Pol dBi)	
1.5° < θ < 20°.....	29-25 log θ dBi
20° < θ < 26.3°.....	-3.5 dBi
26.3° < θ < 48°.....	32-25 log θ dBi
48° < θ < 180°.....	-10 dBi
Antenna Cross-Polarization	
.....	>30 dB in 1 dB Contour
Antenna Noise Temperature	
10° EL.....	45°K
20° EL.....	31°K
30° EL.....	24°K
VSWR	
Tx.....	1.3:1
Rx.....	1.5:1
Isolation (Port to Port)	
Tx.....	.80db
Rx.....	.35db
Feed Interface	
Tx.....	.WR75 Flat Flange
Rx.....	.WR75 Flat Flange

(All specifications typical)

Mechanical Performance

Reflector MaterialGlass Fiber Reinforced Polyester
Antenna Optics One-Piece Offset Feed Prime Focus
Mount Type	Elevation over Azimuth
Elevation Adjustment Range 7° - 84° Continuous Fine Adjustment
Azimuth Adjustment Range 360° Continuous, ± 20° Fine Adjustment
Mast Pipe Interface 73 - 76 mm (2.88 in - 3.00 in) Diameter

Environmental Performance

Wind Loading	Operational..... .50 mph (80 km/h)
Survival	125 mph (200 km/h)
Temperature	-50°C to +80°C
Humidity	0 to 100% (Condensing)
Atmosphere	Standard Hardware 500 Hrs SST Requirements (ASTM B-117)
Solar Radiation	360 BTU/h/ ft ²
Shock and Vibration	As Encountered during Shipping and handling



Satcom solutions for the long haul

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