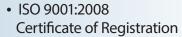
Type 121: 1.2m Standard Rx/Tx Ka-Band SFL Antenna



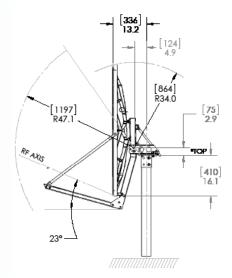




- One-piece precision composite Reflector
- Precision Az/El Mount
- Fine Azimuth and Elevation Adjustment Features
- All Materials Comply with EU Directive No. 2002/95/EC (RoHS)



- 720 Hour Salt Spray Hardware
- Designed for Skyware Global Ka-Band Transceivers





The Skyware Global 1.2m Standard Rx/Tx Ka-Band SFL Antenna is a rugged, commercial quality product suitable for the most demanding applications.

- The reflector is constructed from glass fiber reinforced polyester for strength and accuracy. A proprietary process developed by Skyware Global ensures high RF reflectivity as needed for Ka-Band operation.
- The precision Az/El mount is made of galvanized steel for excellent corrosion resistance. This mount includes special features to increase pointing accuracy with low backlash and lockdown error.
- This Az/EI allows the antenna to be installed on standard 89mm [3.5"] OD installation mounts.
- All hardware is plated to 720 hour salt spray standards under ASTM B-117.
- Designed for use with the Skyware Global line of Ka-band feed assemblies.
- Tx Cross-Polarization Isolation of 25dB (within 1dB b/w) or better.
- Excellent Tx Port to Port Isolation of 90dB or better.
- Meets or exceeds regulator agency requirements.
- System designed for typical Ka-band RF Electronics.



PRODUCT SPECIFICATIONS

1.2m Standard Rx/Tx Ka-Band SFL Antenna

RF Performance

(All specifications typical)

Operating Frequency
TX
Polarization
TX
Gain ¹ (min)
TX
3 dB Beamwidth
TX
Sidelobe Envelope (Tx, Co-Pol dBi)
$100 \text{ A/D} < \theta < 20^{\circ} \dots 29-25 \log \theta \text{ dBi}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$
$48^{\circ} < \theta < 180^{\circ}$
Antenna Cross-Polarization (within 1dB b/w) TX
RX
Antenna Noise Temperature ¹
30° EL
VSWR
Isolation
TX
Feed Interface
TX WR28 Flat Flange
RX WR42 Flat Flange
¹ Gain and Noise Temperature at Feed Horn Flange

Mechanical Performance

Reflector Material Glass Fiber Reinforced Polyester
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 3° Fine Adjustment
Mast Size
Antenna Weight
Packaged Weight Approx 69 lbs
Enviromental Performance
Windloading Operational45mph (72 km/h)
Functional Survival 80mph (128 km/h)
Ultimate Survival
Survival Temperature50°C to +80°C
Operational Temperature
Humidity 0 to 100% (Condensing)
Corrosion Protection
Solar Radiation
Shock and Vibration





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