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

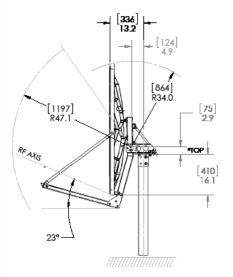




- ISO 9001:2008
 Certificate of Registration
- One-piece precision composite Reflector
- Precision Az/El Mount
- Fine Azimuth and Elevation Adjustment Features
- All Materials Comply with EU Directive No. 2002/95/EC (RoHS)



- 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.



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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
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Antenna Cross-Polarization (within 1dB b/w) TX
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

Mec	hanical	Perforn	iance

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
Operational
Functional Survival 80mph (128 km/h)
Ultimate Survival
Survival Temperature50°C to +80°C
Operational Temperature40°C to +55°C
Humidity 0 to 100% (Condensing)
Corrosion Protection
Solar Radiation

Shock and Vibration. As Encountered during







Shipping and handling

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