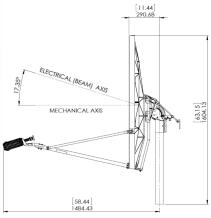
# Type 127: 1.2m Rx/Tx Extended Ka-Band Antenna









- 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 Feed Components
- Designed for Tier I OEM Transceiver

New Skyware Global 1.2m Rx/Tx Extended Ka-Band 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/El allows the antenna to be installed on standard 73mm [2-7/8"] OD installation mounts.
- All hardware is plated to 720 hour salt spray standards tested in accordance with 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 for CP Application.
- Excellent Tx Port to Port Isolation of 90dB or better.
- Meets or exceeds regulatory agency requirements.
- System designed for typical Ka-band RF Electronics.



### PRODUCT SPECIFICATIONS

### **RF Performance**

Operating Frequency

RXTX	18.3-20.2 GHz 28.3-30.0 GHz
Polarization RX	Circular, LH or RH Circular, LH or RH
Gain (+/0.3db) RX TX	
VSWR	1.3:1 Max
3dB Beamwidth RX	0.83° @ 20.2 GHz 0.56° @ 30.0 GHz
Sidelobe Envelope Co-Pol (dBi) $100 \ \lambda/D < \theta < 20^{\circ}.$ $20^{\circ} < \theta < 26.3^{\circ}.$ $26.3^{\circ} < \theta < 48^{\circ}.$ $0 > 48^{\circ}.$	3.5 dBi 32-25 logθ dBi
Antenna Noise Temperature 10° Elevation. 20° Elevation. 30° Elevation.	53K
Cross Polarization Isolation within 1.0 dB Beamwidth RX	
Isolation (Port to Port) RX	
Output Waveguide Interface Flange RX	WR42

# 1.2m Rx/Tx Extended Ka-Band Antenna

# **Mechanical Performance**

Reflector MaterialGlass 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 $\pm$ 5° Fine Adjustment
Mast Size
Antenna WeightApprox 51 lbs (Not Including Mast)
Packaged WeightApprox 58 lbs
<b>Environmental Performance</b>
Windloading
Windloading
Windloading Operational





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