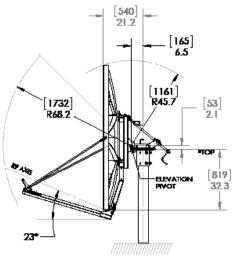
# Type 182: 1.8m Standard Rx/Tx Ka-Band SFL Antenna









- ISO 9001:2008 Certificate of Registration
- One-piece precision SMC 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 1.8m 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 (SMC) for strength and accuracy. A proprietary process developed by Skyware Global insures high RF reflectivity as needed for Ka-Band operation
- The precision Az/EI 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 4" diameter pipe (4.5"/114mm) or 5" diameter pipe (5.56"/141mm) OD.
- 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.
- 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

## **RF** Performance

Operating Frequency TX
Polarization TX Circular, RH or LH RX Circular, LH or RH
Gain <sup>1</sup> (min) TX
3 dB Beamwidth TX
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Antenna Cross-Polarization (within 1dB b/w) TX
Antenna Noise Temperature <sup>1</sup> @ 30° EL 57K Mk
VSWR
Isolation TX
Feed Interface TX

<sup>1</sup> Gain and Noise Temperature at Feed Horn Flange (All specifications typical)

#### 1.8m Standard Rx/Tx Ka-Band SFL Antenna

## **Mechanical Performance**

Reflector MaterialGlass Fiber Reinforced Polyester (SMC)
Antenna Optics One-Piece Offset Feed Prime Focus
Mount Type Elevation Over Azimuth
Elevation Adjustment Range
Azimuth Adjustment Range 360° Continuous ± 3° Fine Adjustment
Mast Size Interface 4" (114mm) Diameter Min 5" (141mm) Diameter Max
Antenna Weight

#### **Environmental Performance**

Windloading
Windloading Operational
Functional Survival
Ultimate Survival 200km/h (125mph)
Survival Temperature
Operational Temperature
Humidity 0 to 100% (Condensing)
Corrosion Protection Hot Dip Galvanized Structural Components, Hardware meets 720 hour Salt Spray Test (ASTM B-117
Solar Radiation 360 BTU/h/ft

Shock and Vibration. . . . . . . . . . As Encountered during Shipping and handling







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