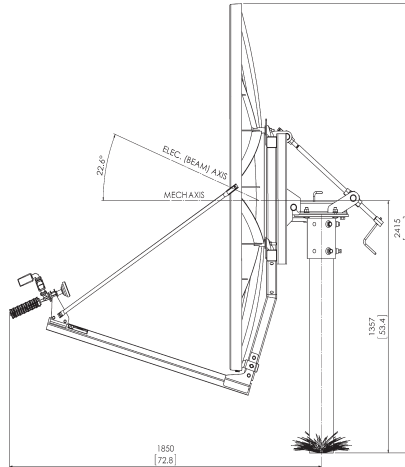


Type 188: 1.8m Rx/Tx C & Ku-Band High Wind Antenna



- ISO 9001:2008 CERTIFICATE OF REGISTRATION
- One-piece precision SMC Reflector
- Heavy Duty Az/EI Mount
- Fine Azimuth and Elevation Adjustment Features
- All Materials Comply with EU Directive No. 2002/95/EC (RoHS)



- 720 Hour Salt Spray Hardware

The **Skyware Global 1.8m Rx/Tx C & Ku-Band High Wind Antenna** is a rugged, commercial quality product suitable for the most demanding applications. This product is capable of operation at 65mph and above depending on supporting structure.

- The reflector is constructed from glass fiber reinforced polyester (SMC) for strength and accuracy. A proprietary process developed by Skyware Global ensures high RF reflectivity.
- The Heavy Duty Az/EI mount is made of hot dipped 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 5" (127mm) or 5.56" (141mm) OD mounts.
- All hardware is plated to 720 hour salt spray standards tested in accordance with ASTM B-117.
- Excellent Tx Port to Port Isolation of 90dB or better.
- Meets or exceeds regulatory agency requirements.



• PRODUCT SPECIFICATIONS

1.8m Rx/Tx C & Ku-Band High Wind Antenna

RF Performance C-Band

Antenna Size 1.8M (71in.)

Operating Frequency*
 RX 3.2-4.20GHz
 TX 5.85-6.725GHz

Midband Gain¹ (+/- .2dB)
 RX 35.50 dBi
 TX 39.50 dBi

Polarization Circular or Linear

Feed Interface
 RX WR229
 TX Type N or WR137

Cross Polarization
 -30 dB within B.P.E. Linear
 15.5 dB RX 17.7 dB TX (circular)

Axial Ratio. 1.3 VAR (2.28 dB) Tx;
 1.4 VAR (2.95 dB) Rx

VSWR 1.3:1 Max

RF Performance Ku-Band

Antenna Size 1.8M (71in.)

Operating Frequency
 RX 10.95-12.75GHz
 TX 13.75-14.50GHz

Midband Gain¹ (+/- .2dB)
 RX 45.20 dBi
 TX 46.70 dBi

Polarization Linear

Feed Interface
 RX WR75

Cross Polarization. -30 dB on axis

Axial Ratio. N/A

VSWR 1.3:1 Max. Tx, 1.5:1 Max. Rx

*CP operation 3.625- 4.2 GHz
 5.85- 6.425 GHz

Mechanical Performance

Reflector Material. Glass Fiber Reinforced Polyester (SMC)

Antenna Optics Prime Focus, Offset Feed

Mount Type Elevation Over Azimuth

Elevation Adjustment Range 10°- 90° Continuous
 Fine Adjustment

Azimuth Adjustment Range. 360° Continuous
 ± 3° Fine Adjustment

Mast Size 5" or 5.56"
 (127 mm or 141mm) Diameter

Antenna Weight. Approx 113.6Kg
 (Not Including Mast)

Environmental Performance

Windloading
 Operational Wind Speed. 105km/h (65mph)

Functional Survival 160km/h (100mph)

Ultimate Survival 200km/h (125mph)

Survival Temperature. -50°C to +80°C

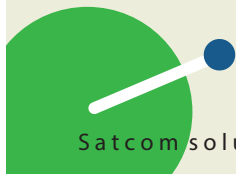
Operational Temperature -40°C to +55°C

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/ft²

Shock and Vibration. As Encountered during
 Shipping and handling



Satcom solutions for the long haul



REV 07/15-02
 Page 2 of 2

Request A Quote