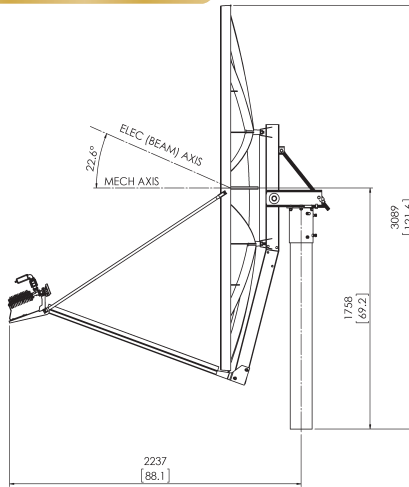


Type 245: 2.4m Rx/Tx Standard Ku-Band SFL Class III Antenna with Mode Matched Feed



- ISO 9001:2008 Certified
- Eutelsat Certificate No. EA-V066
- Two-piece offset SMC Reflector
- Precision 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
- Standard Waveguide Flange Interface

The **Skyware Global 2.4m Rx/Tx Standard Ku-Band SFL Class III Antenna with Mode Matched Feed** is a rugged, commercial quality product suitable for the most demanding applications. The Antenna features a unique feed which provides cross-pol performance that exceeds industry standards.

- The reflector is constructed from glass fiber reinforced polyester for strength and accuracy. A proprietary process developed by Skyware Global insures high RF reflectivity as needed for Ku 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 168mm [6.63"] OD installation mounts.
- All hardware is plated to 720 hour salt spray standards under ASTM B-117.
- Tx Cross-Polarization Isolation of greater than 31dB within 1dB contour.
- Excellent Tx Port-to-Port Isolation of 90dB or better
- Meets or exceeds regulator agency requirements
- Heavy-duty Class III mount for 11 kg (25 lb) RF Electronics (LNB & BUC) and ≤16W installed power. (BUC support kit may be required depending on application)



• **PRODUCT SPECIFICATIONS**

RF Performance

Operating Frequency
 TX13.75 -14.50GHz
 RX10.70 -12.75GHz

Polarization
 Linear Orthogonal

Gain (±0.3 dB)
 TX 49.2 dBi @ 14.25GHz
 RX 47.5 dBi @ 11.70GHz

3 dB Beamwidth
 TX0.6° @ 14.3GHz
 RX0.8° @ 11.2GHz

Sidelobe Envelope (Tx, Co-Pol dBi)
 Eutelsat Standard M
 Mainbeam < q < 20° 29-25 log q dBi
 20° < q < 26.3° -3.5 dBi
 26.3° < q < 48°32-25 log q dBi
 48° < q < 180° -10 dBi (Typical)

Antenna Cross-Polarization within 1dB contour
 TX 31dB
 RX 35dB

Antenna Noise Temperature
 10° EL55K°
 20° EL 46K°
 30° EL 45K°

VSWR
 Tx 1.3:1 Max
 Rx 1.5:1 Max

Isolation*(Port to Port)
 Tx90 dB
 Rx40 dB

Feed Interface
 TxWR75 Flat Flange
 Rx WR75 Flat Flange

(All specifications typical)
 (* With Skyware Global OMT/Filter)

**2.4m Rx/Tx Standard Ku-Band SFL Class III
 Antenna with Mode Matched Feed**

Mechanical Performance

Reflector Material.Glass Fiber Reinforced Composite

Antenna Optics2-Piece Offset Feed Prime Focus

Mount TypeElevation Over Azimuth

Elevation Adjustment Range10° - 90° Continuous
 Fine Adjustment

Azimuth Adjustment Range360° Continuous
 ± 12° Fine Adjustment

Feed Support Regular Section with
 Alignment Legs

Mast Size6.63" (168mm) Diameter

Antenna Weight.Approx 110.65Kg
 (Not Including Mast)

Enviromental Performance

Windloading
 Operational Wind Speed.72km/h (45 mph)

Functional Survival200km/h (125 mph)

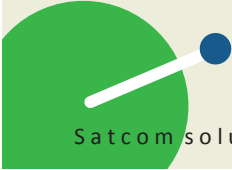
Operational Temperature -50°C to +80°C

Humidity.0 to 100% (Condensing)

Atmosphere.Standard Hardware 720 Hrs
 SST Requirements (ASTM B-117)

Solar Radiation360 BTU/h/ ft²

Shock and Vibration. As Encountered during
 Shipping and handling



Satcom solutions for the long haul



REV 08/15-01
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Request A Quote