## Type 243: 2.4m BSS Band Antenna SFL RxTx Class I





- 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
- Standard Waveguide Flange Interface



The Skyware Global 2.4m BSS Band Antenna SFL RxTx Class I 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 Ku 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 (168mm) 6.63" OD installation mounts.
- All hardware is plated to 720 hour salt spray standards under ASTM B-117.
- Cross-Polarization Isolation of 30dB on axis
- 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).



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## PRODUCT SPECIFICATIONS

**RF** Performance

Operating Frequency TX
Polarization TxLinear V-Pol or H-Pol RxLinear H-Pol or V-Pol
Gain (±0.3 dB)  TX
3 dB Beamwidth TX 0.5° @ 17.7 GHz RX 0.7° @ 12.0 GHz
Sidelobe Envelope (Tx, Co-Pol dBi) $100 \ \lambda/D < q < 20^{\circ}$
Antenna Cross-Polarization (Within 1 dB) TX>30dB RX>23dB
Antenna Noise Temperature31K° @ 30° Elevation @ 12.0 GHz
VSWR         Tx       1.3:1 Max         Rx       1.5:1 Max
Isolation         Tx       90 dB         Rx       45 dB
Feed Interface TxWR62 Flat Flange RxWR75 Flat Flange

## 2.4m BSS Band Antenna

## SFL RxTx Class 1

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Reflector Material.....Glass Fiber Reinforced Polyester (SMC) with Aluminium Screen

Antenna Optics . . . . . . Two-Piece Offset Feed Prime Focus

Mount Type ...... Elevation Over Azimuth

Elevation Adjustment Range ..... 10° - 90° Continuous Fine Adjustment

Coarse Azimuth Adjustment Range . . . . 360° Continuous;

Fine Azimuth Adjustment Range..... ± 12°

Antenna Weight..... Approx 110.63Kg (Not Including Mast)

**Environmental Performance** 

Operational Wind Speed.....80km/h (50 mph)

Functional Survival Wind Speed...... 128km/h (80 mph)

Ultimate Survival Wind Speed........200km/h (125 mph)

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

Marinized Version......Also Possible

Operational Temperature .....-40°C to +55°C

Survival Temperature Range .....-50°C to +80°C

Humidity...... 0 to 100% (Condensing)





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