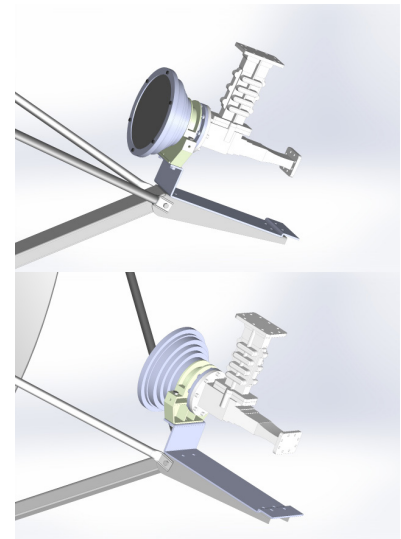


1.8M C-band RxTx Class III Antenna System



- One-piece precision offset thermoset-molded reflector.
- All materials comply with EU directive No. 2011/65/EC (RoHS).
- Fine Azimuth and elevation adjustments.
- Heavy-duty galvanized Az/El mount. Marinised version includes 2 part epoxy paint finish.
- Factory pre-assembled mount.

1.8m C-band Linear RxTx Class III Antenna System TYPE 183

The **Global Skyware Type 183 1.8m Class III RxTx Antenna** is a rugged commercial grade product suitable for the most demanding applications. The reflector is thermoset-molded for strength and surface accuracy. Molded into the rear of the reflector is a network of support ribs which not only strengthens the antenna, but also helps to sustain the critical parabolic shape necessary for transmit performance.

The Az/El mount is constructed from heavy-gauge steel to provide a rigid support to the reflector and feed support arm. Heavy-duty lockdown bolts secure the mount to any 114 mm (4.50") O.D. mast and prevent slippage in high winds.

Hot-dip galvanizing is standard on this model for maximum environmental protection. A marinised version of this antenna is also available making it suitable for on-shore and offshore marine environments.

- HD Galvanised support arm and alignment struts. Marinised version has all galvanized steel components finished with 2 part epoxy paint.
- Plated hardware for maximum corrosion resistance. Optional marinised version uses marine grade AISI 316 stainless steel hardware throughout.
- Includes C-band linear cross-polarized RxTx feed assembly.
- Heavy-duty Class III mount for 11 kg (25 lb) RF electronics (LNB & BUC).



• PRODUCT SPECIFICATIONS

Antenna Model. 62-1834011

RF Performance

Effective Aperture 1.8m (71 in)

Operating Frequency

TX. 5.850 -6.725 GHz

RX. 3.400 -4.200 GHz

Polarization. Linear, Orthogonal

Gain (± 0.3 dB)

TX. 39.3 dBi @ 6.1 GHz

RX. 35.4 dBi @ 3.9 GHz

3 dB Beamwidth

TX. 2.0° @ 6.1 GHz

RX. 3.0° @ 3.9 GHz

Sidelobe Envelope (Tx, Co-Pol dBi)

2.5° < q < 20°. 29-25 log q

20° < q < 26.3°. -3.5

26.3° < q < 48°. 32-25 log q

48° < q < 180°. -10

Antenna Cross-Polarization. 30db On Axis

Antenna Noise Temperature

10° EL. 41°K

20° EL. 36°K

30° EL. 33°K

VSWR

Tx. 1.3:1

Rx. 1.5:1

Isolation (Port to Port)

Tx. 80db

Rx. 60db

Feed Interface

Tx. CPR-137

Rx. CPR-229

(All specifications typical)

1.8 m C-band Linear RxTx Class III Antenna

Mechanical Performance

Reflector Material. Glass Fiber Reinforced Polyester

Antenna Optics. One-Piece Offset Feed Prime Focus

Mount Type. Elevation over Azimuth

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

Azimuth Adjustment Range. 360° Continuous,
 $\pm 10^\circ$ Fine Adjustment

Mast Pipe Interface. 114 mm (4.50in) Diameter

Environmental Performance

Wind Loading

Operational. 50 mph (80 km/h)

Survival. 125 mph (200 km/h)

Temperature. -50°C to +80°C

Humidity. 0 to 100% (Condensing)

Atmosphere. Meets 500 Hrs
SST Requirements (ASTM B-117)

. Marinised Option has
AISI 316 stainless steel hardware

Solar Radiation. 360 BTU/h/ ft²

Shock and Vibration. As Encountered during
Shipping and handling



REV 05/17-04

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