Type 183: 1.8M C-band Circular Polarized Rx/Tx

Class III Antenna System



SKYWARE

- All materials comply with EU directive No. 2011/65/EC (RoHS).
- One-piece precision offset thermoset-molded reflector.
- Heavy-duty galvanized Az/El mount.
- Fine Azimuth and elevation adjustments.
- Galvanised support arm and alignment struts.
- Factory pre-assembled mount.
- Plated hardware for maximum corrosion resistance.
- RF tested feed assembly



1.8m C-band Circular Polarized Rx/Tx Class III Antenna System TYPE 183

The **Skyware Global Type 183 1.8 m 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.
- Heavy-duty Class III mount for 11 kg (25 lb) RF electronics (LNB & BUC).





PRODUCT SPECIFICATIONS

Type Approval Information

Antenna Model
Intelsat StandardStandard G & H-2 (IESS 601)
Approval Code

RF Performance
Effective Aperture
Operating Frequency 5.850 - 6.425 GHz Rx 3.625 - 4.200 GHz
Polarization Circular; Tx LH, Rx RH; or Tx RH, Rx LH
Gain (±.4 dBi) Tx 39.5 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) $2.8^{\circ} < \theta < 20^{\circ}$. .29 - 25 Log θ $20^{\circ} < \theta < 26.3^{\circ}$. 3.5 $26.3^{\circ} < \theta < 48^{\circ}$. .32 - 25 Log θ $48^{\circ} < \theta < 180^{\circ}$. 10
Axial Ratio Tx
Antenna Noise Temperature 10° El
VSWR Tx
Isolation (Port to Port)
Feed Interface Tx

1.8 m C-band Polarized Rx/Tx Class III Antenna

Mechanical Performance

Reflector Material
Antenna Optics One-Piece Offset Feed Prime Focus
Mount Type Elevation over Azimuth
Elevation Adjustment Range
Azimuth Adjustment Range
Feed Support
Mast Pipe Interface
Enviromental Performance
Wind Loading .80 km/h (50 mph) Operational. .200 km/h (125 mph)
Temperature50°C to 80°C
Humidity 0 to 100% (Condensing)
Atmosphere Standard Hardware Meets (ASTM B-117)
Solar Radiation
Shock and Vibration



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