Type 690: 69cm Rx/Tx Ka-Band Antenna System



- ISO 9001:2008
 Certificate of Registration
- All Materials Comply with EU Directive No. 2002/95/EC (RoHS)
- Precision pressed steel reflector
- Long focal length optics for low cross-pol or beam squint
- Steel components are pregalvanized and powder coat painted for excellent corrosion resistance
- All hardware meets 500 minimum salt spray test requirements (ASTM B-117)
- Fine elevation and azimuth adjustments
- Ideally suited for Skyware Global Ka-Band Transceiver



The **Skyware Global 69cm Rx/Tx Ka-Band Antenna** is a rugged, commercial grade product suitable for the most demanding applications.

- The pressed steel reflector assures the surface accuracy needed for Ka-band performance. Pre-galvanized steel with a powder coat finish guarantees excellent corrosion resistance and long life.
- The pressed steel back structure provides for precision alignment of the reflector and support of the RF assembly without distortion.
- The reflector optics incorporate a long focal length for excellent cross-pol discrimination or "beam squint".
- The heavy gauge steel Az/El mount provides a rigid support for the antenna and incorporates precise fine elevation and azimuth adjustment.
- This Az/El allows the antenna to be installed on any standard 2" (51mm) or 2 3/8" (60.3mm) OD installation mount or mast depending of customer requirements.





PRODUCT SPECIFICATIONS

RF Performance

Operating Frequency TX
Polarization TX Circular RH or LH RX Circular RH or LH
Gain (±0.3 dB) TX
3 dB Beamwidth TX 0.7° @ 29.75GHz RX
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Antenna Cross-Polarization (within 1dB B/W) RX
Antenna Noise Temperature ¹ @ 30° EL 56K Max
VSWR
Feed Interface Custom Circular

¹ Gain and Noise Temperature at Feed Horn Flange (All specifications typical)

69cm Rx/Tx Ka-Band Antenna System

Mechanical Performance

Reflector MaterialStee
Antenna Optics One-Piece Offset Feed Prime Focus
Mount Type Elevation Over Azimuth
Elevation Adjustment Range 8°-90° Continuous Fine Adjustmen
Azimuth Adjustment Range 360° Continuous ± 5° Fine Adjustmen
Mast Pipe Interface51mm (2.00in)Diameter(Std. 60mm (2.38in)Diameter(Opt.

Environmental Performance

Enviromental Performance
Wind Loading Operational
Functional Survival 80mph (128km/h)
Ultimate Survival
Operational Temperature
Survival Temperature50°C to +80°C
Humidity 0 to 100% (Condensing)
Corrosion protection Standard Hardware 500 Hrs SST Requirements (ASTM B-117)
Solar Radiation
Shock and Vibration





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