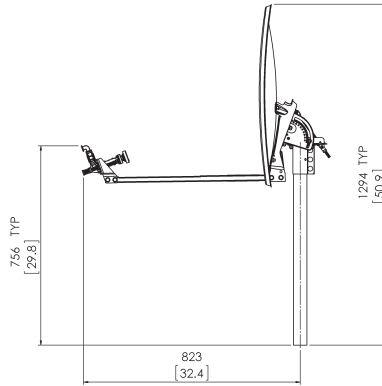


Type 698: 69cm Rx/Tx Extended Ka-Band Antenna



- ISO 9001:2008 CERTIFICATE OF REGISTRATION
- One-piece precision Steel 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
- Designed for Skyware Global Ka-Band Feed Components
- Designed for typical Ka-Band electronics.

New Skyware Global 69cm Rx/Tx Extended Ka Band Antenna is a rugged, commercial quality product suitable for the most demanding applications.

- The reflector is constructed from pressed steel for strength and accuracy. A proprietary process developed by Skyware Global ensures high RF reflectivity from powder coated galvanized steel.
- 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 2" or 2 3/8" OD installation mounts.
- All hardware is plated to 720 hour salt spray standards tested in accordance with ASTM B-117.
- Tx Cross-Polarization Isolation of 25dB (within 1dB b/w) or better for CP Application.
- Excellent Tx Port to Port Isolation of 90dB or better.
- Meets or exceeds regulatory agency requirements .
- System designed for typical Ka-Band RF Electronics.



• PRODUCT SPECIFICATIONS

RF Performance

Operating Frequency
RX18.3-20.2GHz
TX28.3-30.0GHz

Midband Gain (+/.5db)
RX41.4 dBi @ 20.2Ghz
TX44.9 dBi @ 30.0Ghz

VSWR 1.3:1 Max

3 dB Beamwidth
TX1.1°
RX1.7°

Sidelobe Envelope Co-Pol (dBi)
100 λ/D < θ < 20°29-25 log θ dBi
20° < θ < 26.3°-3.5 dBi
26.3° < θ < 48°32-25 log θ dBi
0 > 48°-10 dBi (averaged)

Antenna Noise Temperature
10° Elevation85K
20° Elevation69K
30° Elevation56K

Cross Polarization Isolation
within 1.0 dB Beamwidth
RX22 dBi
TX25 dBi

Isolation Port to Port
RX80dB
TX90dB

Output Waveguide Interface Flange
RXWR42
TXWR28

69cm Extended Rx/Tx Ka-Band Antenna

Mechanical Performance

Reflector Material Steel

Antenna Optics One-Piece Offset Feed Prime Focus

Mast Pipe Size 2" or 2 3/8" Diameter

Elevation Adjustment Range 5°-90° Continuous
Fine Adjustment

Azimuth Adjustment Range 360° Continuous
Course Adjustment
± 5° Fine Adjustment

Enviromental Performance

Wind Loading
Operational45 mph (72 km/h)
Functional Survival80 mph (128 km/h)
Ultimate Survival125 mph (201 km/h)

Temperature (operational)-40° to 140°F
(-40° to 60)°C

Rain (operational) 1/2"/hr

Atmospheric Conditions
Salt, Pollutants and Contaminants
as Encountered in Coastal and Industrial Areas

Relative Humidity 0 to 100% with Condensation

Solar Radiation360 BTU/h/ft²



Satcom solutions for the long haul



REV 03/15-01
Page 2 of 2

Request A Quote