

# 0.98M Ku-Band Rx/Tx Antenna

## Series 1985

### Technical Specifications

Electrical		Series 1985 Ku-Band
Antenna Size		0.98 M (38.22 in.)
Operating Frequency (GHz)	Receive Transmit	10.95 - 12.75 GHz 13.75 - 14.50 GHz
Midband Gain ( + .2dB)	Receive Transmit	39.80 dBi 41.30 dBi
Polarization		Linear
3 dB Beamwidth	Receive Transmit	1.80° 1.50°
Feed Interface		WR75
First Sidelobe (Typical)		-24.0 dB
3 dB Beamwidth	Receive Transmit	>30 dB min. on axis >30 dB min. within 1 dB contour
VSWR		1.3:1 Max.

Mechanical	
Reflector Material	Glass Fiber Reinforced Polyester SMC
Antenna Optics	One Piece Offset, Prime Focus
Mount Type	Elevation over Azimuth
Mast Pipe Size	2.5" SCH 40 Pipe (2.875" OD) 73.00 cm.
Elevation Adjustment Range	50 _ 9j)o Continuous Fine Adjust
Azimuth Adjustment Range	360° Continuous Coarse Adjust
Shipping Specifications	50 Lbs. (23 Kg.)

Environmental Performance		
Wind Loading	Operational Survival	50 mph (80 km/h) 125 mph (201 km/h)
Temperature	Operational Survival	-40° to 140° F (-40° to 60° C) -50° to 160° F (-46° to 71° C)
Rain	Operational Survival	1/2"/hr 2"/hr
Ice	Operational Survival	----- 1/2" radial
Atmospheric Conditions		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Solar Radiation		360 BTU/h/ft2

## GENERAL DYNAMICS SATCOM Technologies

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