

# 1.2M Receive/Transmit Antenna

## Series 1135

### Technical Specifications

Electrical	Receive	Transmit
Antenna Size	1.2 M (47.3")	1.2 M (47.3")
Operating Frequency (GHz)	10.95 - 12.75 GHz	13.75 - 14.50 GHz
Midband Gain ( +/-2 dB)	41.50 dBi	43.00 dBi
Polarization	Linear	Linear
3 dB Beamwidth	1.47°	1.22°
Feed Interface	WR75	WR 75
Cross-Pol Isolation (Linear)	>30 dB Min. (on axis)	>30 dB Min. (on axis) within 1 dB contour
First Sidelobe (typical)	-24 dB	- 24 dB
VSWR	1.3:1 Max	1.3:1 Max

Mechanical	
Reflector Material	Glass Fiber Reinforced Polyester SMC
Antenna Optics	One Piece Offset, Prime Focus
Mast Pipe Size	2.5" SCH 40 Pipe (2.875" OD) 73.00 mm
Elevation Adjustment Range	5° to 90° Continuous Fine Adjust
Azimuth Adjustment Range	360° Continuous Coarse Adjust, +/- 25° Fine Adjust
Polarization Adjustment Range	+90° Continuous Fine Adjust
Shipping Specifications (Weight)	65 lbs. (30 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)
Atmospheric Conditions	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Solar Radiation	360 BTU/h/ft2

## GENERAL DYNAMICS SATCOM Technologies

1500 Prodelin Drive • Newton, NC 28658 USA • Telephone: +1-828-464-4141 • Fax: +1-828-464-4147  
Email: vsat@gdsatcom.com • Web Site: www.gdsatcom.com

1000-012 Rev. 05/11