

1.8M & 2.4M L-Band Antennas

Series 1184

Technical Specifications

Electrical	L-Band	
Antenna Size	1.8 M (71 in.)	2.4 M (96 in.)
Frequency (GHz)	1.16 – 1.75 GHz	1.16 – 1.75 GHz
Antenna Gain @ 1.16 GHz @ 1.45 GHz @ 1.75 GHz	24.70 dBi 26.50 dBi 27.70 dBi	27.30 dBi 29.10 dBi 30.30 dBi
VSWR	1.7:1	1.7:1
Pattern Beamwidth (in degrees at midband) -3 dB	8.0°	6.0°
Antenna Noise Temperature 20°Elevation	66K	64K
Polarization	RHCP	RHCP
Axial Ratio	3 dB	3 dB
Feed Interface	Type N or TNC	Type N or TNC

Mechanical		
Reflector Material	Glass Fiber Reinforced SMC	
Antenna Optics	Prime Focus, Offset Feed	Prime Focus, Offset Feed, Two-Piece Divided Along Major Axis
Mast Pipe Size	3.5" SCH 40 Pipe (4.0" OD) 10.16 cm.	6" SCH 40 Pipe (6.63" OD) 16.83 cm.
Elevation Adjustment Range	5°to 90°Continuous Fine Adjustment	
Azimuth Adjustment Range	+/- 45°Fine Adjustment, 360°Continuous	
Mount Type	Elevation over Azimuth	
Shipping Specifications (Weight)	225 lbs. (103 kg.)	385 lbs. (174 kg.)

Environmental Performance	
Wind Loading Operational Survival	50 mph (80 km/h) 125 mph (201 km/h)
Temperature (Operational)	-40° to 140° F (-40° to 60° C)
Rain (operational)	1/2" (13mm) / hr
Ice (operational)	-----
Atmospheric Conditions	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Relative Humidity	0 to 100% With Condensation
Solar Radiation	360 BTU/h/ft²

GENERAL DYNAMICS SATCOM Technologies

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