

1.8M C or Ku-Band Receive Only

Series 1183

Technical Specifications

Electrical	C-Band	Ku-Band
Antenna Size	1.8M (71 in.)	1.8M (71 in.)
Operating Frequency (GHz)	3.625 - 4.2 GHz	10.95 - 12.75 GHz
Midband Gain (+/- .5dB)	35.5 dBi	45.5 dBi
3 dB Beamwidth	2.9°	0.9°
Antenna Noise Temperature		
20° Elevation	49 K	38 K
30° Elevation	47 K	35 K
Polarization	Linear or Circular	Single or Dual Linear
First Sidelobe (typical)	- 20 dB	- 20 dB
Cross-Pol Isolation (Linear)	>30 dB (on axis)	>30 dB (on axis)
VSWR	1.3:1 Max.	1.3:1 Max.
Feed Interface	CPR 229 F	Rectangular WR 75 or WC 75

Mechanical	
Reflector Material	Glass Fiber Reinforced Polyester SMC
Antenna Optics	Prime Focus, One-Piece Offset Feed
Mast Pipe Size	3.5" SCH 40 Pipe (4.00" OD) 10.16 cm.
Elevation Adjustment Range	5° to 90°, Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous
Shipping Specifications	160 lbs. (72 kg.)

Environmental Performance	
Wind Loading	
Operational	45 mph (72 km/h)
Survival	125 mph (201 km/h)
Temperature	
Operational	-40° to 140° F (-40° to 60° C)
Survival	-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/ft ²

GENERAL DYNAMICS SATCOM Technologies

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