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 30° Elevation	49 K 47 K	38 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 Survival	45 mph (72 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

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