

# 1.8M C or Ku-Band Receive Only

## Series 1186

### Technical Specifications

Electrical	C-Band	Ku-Band
Antenna Size	1.8 M (71 in.)	1.8 M (71 in.)
Frequency (GHz)	3.625 – 4.20 GHz	10.95 – 12.75 GHz
Antenna Gain at Midband, dBi (+/- .2 dB)	35.5 dBi	45.5 dBi
VSWR	1.3:1 Max	1.3:1 Max
Pattern Beamwidth (in degrees at midband) -3 dB	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
Cross Polarization Isolation On Axis Within 1.0 dB Beamwidth	>30 dB	>30 dB
Output Waveguide Interface Flange	CPR 229F	Rectangular WR 75 or WC 75

Mechanical	
Reflector Material	Glass Fiber Reinforced SMC
Antenna Optics	Prime Focus, One-Piece offset Feed
Mast Pipe Size	3.5" SCH 40 Pipe (4.00" OD) 10.16 cm.
Declination Corrected Polar Range	Any 90° segment of Arc
Azimuth Adjustment Range	360° Continuous

Environmental Performance	
Wind Loading Operational Survival	45 mph (72 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/ft <sup>2</sup>

**GENERAL DYNAMICS**  
SATCOM Technologies

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