1.8 Meter C-Band Antenna
Receive Transmit

Series 1182

Technical Specifications

Electrical		C-Band Linear Polarity	C-Band Circular Polarity
Antenna Size		1.8M (71 in.)	
Operating Frequency	Rx Tx	3.400-4.200 GHz 5.850-6.725 GHz	3.625-4.200 GHz 5.850-6.425 GHz
Midband Gain (+/- .3dB)	Rx Tx	35.4 dBi 39.6 dBi	35.5 dBi 39.5 dBi
3 dB Beam Width	Rx Tx	3.0° 1.9°	3.0° 1.9°
Sidelobe Envelope, Co-Pol, dBi 100λ / D < Θ ≤ 20° 20° < Θ ≤ 26.3° 26.3° < Θ ≤ 48° 48° < Θ < 180°		29 – 25 Log Θ dBi -3.5 dBi 32 – 25 Log Θ dBi -10 dBi (Typical)	
Antenna Noise Temp 10° Elevation 20° Elevation 30° Elevation		56 K 49 K 45 K	58 K 53 K 46 K
Cross Pol Isolation	Rx Tx	> 30 dB (On Axis)	15.3 dB Min (AR = 3.0 dB) 17.5 dB Min (AR = 2.3 dB)
VSWR		1.4:1 max	1.3:1 max
Feed Interface	Rx Tx	CPR 229G CPR 137G	

Mechanical	
Reflector Material	One Piece Glass Fiber Reinforced Polyester SMC
Antenna Optics	Prime Focus, Offset, 0.6 F/D
Mount Type	Elevation over Azimuth
Mast Pipe Size	3-1/2" SCH 40 Pipe (4.00" OD) 10.16 cm.
Elevation Adjustment Range	10° to 80° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous, +/- 10° Fine Adjustment

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)
Rain	Operational	1/2 inch/h
Ice	Survival	1/2" radial
Atmospheric Conditions		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Solar Radiation		360 BTU/h/ft2

Contact us at CustomerCareSAT@cpii.com or call us at +1 770-689-2040. The data should be used for basic in formation only.
Formal, controlled specifications may be obtained from CPI for use in equipment design.

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