1.8 Meter Ku-Band Antenna Receive Transmit

Technical Specifications

Electrical		Ku-Band Linear Polarity
Antenna Size		1.8M (71 in.)
Operating Frequency	Rx	10.70-12.75 GHz
	Tx	13.75-14.50 GHz
Midband Gain (+/3dB)	Rx	45.0 dBi
	Tx	46.5 dBi
3 dB Beam Width	Rx	1.0°
	Tx	0.8°
Sidelobe Envelope, Co-Pol, of 100λ / D < $\Theta \le 20^{\circ}$ $20^{\circ} < \Theta \le 26.3^{\circ}$ $26.3^{\circ} < \Theta \le 48^{\circ}$ $48^{\circ} < \Theta < 180^{\circ}$	dBi	29 – 25 Log ⊖ dBi -3.5 dBi 32 – 25 Log ⊖ dBi -10 dBi (Typical)
Antenna Noise Temp 10° Elevation 20° Elevation 30° Elevation		44 K 38 K 35 K
Cross Pol Isolation	Rx Tx	> 30 dB (On Axis)
VSWR		1.4:1 max
Feed Interface	Rx	WR75 Flat
	Tx	WR75 Flat

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	g 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)
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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