

Technical Specifications

Electrical	C-Band Linear	C-Band Circular	Ku-Band Linear
Antenna Size	1.8M (71 in.)	1.8M (71 in.)	1.8M (71 in.)
Operating Frequency (GHz)			
Receive	3.625 - 4.20 GHz	3.625 - 4.20 GHz	10.70 - 12.75 GHz
Transmit	5.85 - 6.425 GHz	5.85 - 6.425 GHz	13.75 - 14.50 GHz
Midband Gain (+/- .2dB)			
Receive	35.50 dBi	35.30 dBi	44.80 dBi
Transmit	39.50 dBi	39.30 dBi	46.80 dBi
Antenna Noise Temperature			
10° Elevation	45 K	45 K	69 K
20° Elevation	41 K	41 K	64 K
30° Elevation	41 K	41 K	63 K
40° Elevation	40 K	40 K	62 K
Sidelobe Envelope, Co-Pol (dBi)			
100λ/D ≤ θ ≤ 20°	29 - 25 Logθ dBi	29 - 25 Logθ dBi	29 - 25 Logθ dBi
20° < θ ≤ 26.3°	-3.5 dBi	-3.5 dBi	-3.5 dBi
26.3° < θ ≤ 48°	32 - 25 Logθ dBi	32 - 25 Logθ dBi	32 - 25 Logθ dBi
48° < θ	-10 dBi (averaged).	-10 dBi (averaged)	-10 dBi (averaged)
Cross-Pol Isolation (Linear)			
On Axis	30 dB	17.7 dB Tx 15.5 dB Rx	30 dB
With 1.0 dB Beamwidth	26 dB	17.7 dB Tx 15.5 dB Rx	26 dB
VSWR	1.3:1 Max.	1.3:1 Max.	1.3:1 Max. Tx 1.5:1 Max. Rx
Output Waveguide Interface Flange	WR137 or N Tx WR229 Rx	WR137 or N Tx WR229 Rx	WR75 WR229 Rx
Power Handling	1 kW	1 kW	100 W

Mechanical	
Reflector Material	Glass fiber reinforced polyester SMC
Antenna Optics	Prime Focus, One-Piece, Offset Feed
Mount Type	Elevation over Azimuth
Mast Pipe Size	3.5" SCH 40 Pipe (4.0" OD) 10.16 cm.
Elevation Adjustment Range	5° to 90°, Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous
Shipping Specifications (Approx. Net Weight)	180 lbs. (82kg.) 185 lbs. (84kg.) 170 lbs. (78kg.)

Environmental Performance	
Wind Loading	45 mph (72 km/h)
Operational Survival	125 mph (201 km/h)
Temperature (operational)	-40° to 140° F (-40° to 60° C)
Rain (operational)	1/2" (13 mm)/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/ft2

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



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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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