

Technical Specifications

Electrical	C-Band Linear	C-Band Circular	Ku-Band
Antenna Size	2.4 M (96.00 in.)	2.4 M (8 ft.)	2.4 M (96.00 in.)
Operating Frequency (GHz)	3.625 - 4.20 GHz	3.625 - 4.20 GHz	10.70 - 12.75 GHz
Receive	5.85 - 6.425 GHz	5.85 - 6.425 GHz	13.75 - 14.50 GHz
Transmit			
Antenna Gain at Midband (\pm .2dB)	38.20 dBi	38.20 dBi	47.40 dBi
Receive	42.20 dBi	42.20 dBi	49.20 dBi
Transmit			
VSWR	1.3:1 max	1.3:1 max	Tx: 1.3:1 Max Rx: 1.5:1 Max
Pattern Beamwidth (in degrees at midband)	-3dB -15dB	2.20° Rx 1.40° Tx 4.90° Rx 3.10° Tx	2.20° Rx 1.40° Tx 4.90° Rx 3.10° Tx
Sidelobe Envelope, Co-Pol (dBi)			
100/D $\theta \leq 20^\circ$	29 - 25 Log θ dBi	29 - 25 Log θ dBi	29 - 25 Log θ dBi
20° $\theta \leq 26.3^\circ$	-3.5 dBi	-3.5 dBi	-3.5 dBi
26.3° $\theta \leq 48^\circ$	32 - 25 Log θ dBi	32 - 25 Log θ dBi	32 - 25 Log θ dBi
$\theta < 48^\circ$	-10 dBi (averaged).	-10 dBi (averaged)	-10 dBi (averaged)
Antenna Noise Temperature			
5° Elevation	55 K	61 K	85 K
10° Elevation	47 K	53 K	78 K
20° Elevation	43 K	49 K	73 K
40° Elevation	43 K	49 K	70 K
Cross Polarization Isolation			
On Axis	> 30 dB	Rx > 15 dB Tx > 17.7 dB	Rx > 30 dB Tx > 35 dB
Within 1.0 dB Beamwidth	> 27 dB	Rx > 15 dB Tx > 17.7 dB	Rx > 25 dB Tx > 26 dB
Output Waveguide Interface	Rx CPR 229 Tx CPR 137 or Type N	Rx CPR 229 Tx CPR 137 or Type N	Rx WR75 Tx WR75

Mechanical			
Reflector Material	Glass Fiber Reinforced Polyester SMC		
Antenna Optics	Four Piece Offset, Prime Focus		
Mast Pipe Size	6" SCH 80 Pipe (6.62" OD) 16.80 cm.		
Elevation Adjustment Range	5° - 90° Continuous Fine Adjust		
Azimuth Adjustment Range	+/- 45° Fine Adjustment, 360° Continuous		
Mount Type	Elevation over Azimuth		
Shipping Specifications (Approximate Net Weight):	930 lbs.	950 lbs.	920 lbs.

Environmental Performance			
Wind Loading	Operational	65 MPH (104 km/h) with 0.5dB loss @ 14.25GHz 75 MPH (120 km/h) with 1.0dB loss @ 14.25GHz, 0.5dB loss @ 6.14GHz	
	Survival	90 MPH (145 km/h) with 1.0dB loss @ 6.14GHz 150 MPH (240 km/h)	
Temperature	Operational	-40° to 140° F (-40° to 60° C)	
	Survival	-50° to 160° F (-46° to 71° C)	
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		

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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