Technical Specifications

Electrical	Series 1194 C-Band		Series 1194 Ku-Band
Antenna Size	1.8M (71 in.)		1.8M (71 in.)
Operating Frequency (GHz) Receive Transmit	3.625 - 4.20 GHz 5.85 - 6.425 GHz		10.95 - 12.75 GHz 13.75 - 14.50 GHz
Midband Gain (+/2dB) Receive Transmit	35.50 dBi 39.50 dBi		45.20 dBi 46.70 dBi
Antenna Noise Temperature 20° Elevation 30° Elevation	Linear 49 K 37 K	Circular 23 K 21 K	38 K 35 K
Sidelobe Envelope, Co-Pol (dBi) $100ND < \theta \le 20^{\circ}$ $20^{\circ} < \theta \le 26.3^{\circ}$ $26.3^{\circ} < \theta \le 48^{\circ}$ $\theta > 48^{\circ}$	29 - 25 Log θdBi -3.5 dBi 32 - 25 Log θdBi -10 dBi (averaged).	29 - 25 LogθdBi -3.5 dBi 32 - 25 LogθdBi -10 dBi (averaged)	29 - 25 LogθdBi -3.5 dBi 32 - 25 LogθdBi -10 dBi (averaged)
Cross-Pol Isolation Within B.P.E. Any Angle off Axis	-26 dB Max. -23 dB Max.		-30 dB Max. -25 dB Max.
VSWR	1.3:1 max		1.3:1 Max. Tx, 1.5:1 Max. Rx
Axial Ratio (circular) Receive Transmit	1.4 VAR (2.95 dB) 1.3 VAR (2.28 dB)		
Feed Interface Receive Transmit	CPR 229 F CPR 137 or Type N		Available in a variety of designs Available in a variety of designs

Mechanical		
Reflector Material	Glass Fiber Reinforced Polyester SMC	
Antenna Optics	Prime Focus, Offset Feed	
Mast Pipe Size	5" SCH 40 Pipe (5.56" OD) 141 mm.	
Elevation Adjustment Range	5° to 90°, Continuous Fine Adjustment	
Azimuth Adjustment Range	+/- 45° Fine, 360° Continuous	
Shipping Specifications	C-Band: 245 lbs. (111 kg.) Ku-Band: 235 lbs. (106.5 kg.)	

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



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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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