



MAVERICK Fixed Site 2.4M

Electrical		C-Band Linear	C-Band Circular	Ku-Band Linear
Antenna Size		2.4M (96 in.)	2.4M (96 in.)	2.4M (96 in.)
Operating Frequency (GHz)	Receive Transmit	3.625 - 4.20 GHz 5.85 - 6.425 GHz	3.625 - 4.20 GHz 5.85 - 6.425 GHz	10.70 - 12.75 GHz 13.75 - 14.50 GHz
Antenna Gain at Midband, dBi (± .2dB)	Receive Transmit	38.20 dBi 42.20 dBi	38.00 dBi 42.00 dBi	47.40 dBi 49.20 dBi
VSWR		1.3:1 Max.	1.3:1 Max.	1.3:1 Max. Tx 1.5:1 Max.
Pattern Beamwidth (in degrees at midband)	-3 dB -15 dB	Rx: 2.20° Tx: 1.40° Rx: 4.90° Tx: 3.10°	Rx: 2.20° Tx: 1.40° Rx: 4.90° Tx: 3.10°	Rx: 0.70° Tx: 0.60° Rx: 1.60° Tx: 1.40°
Sidelobe Envelope, Co-Pol (dBi)	100λ/D < θ ≤ 20° 20° < θ ≤ 26.3° 26.3° < θ ≤ 48° θ > 48°	29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)	29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)	29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)
Antenna Noise Temperature	10° Elevation 20° Elevation 30° Elevation 40° Elevation	52 K 46 K 45 K 44 K	57 K 49 K 45 K 45 K	56 K 51 K 48 K 41 K
Cross Polarization Isolation (Linear) On Axis	Receive Transmit	>30 dB >30 dB	N/A N/A	>30 dB >35 dB
Feed Interface	Receive Transmit	CPR 229F CPR 137 or Type N	CPR 229F CPR 137 or Type N	WR 75 or Direct Radio Mounting
Maximum Radio Weight (Optional Feed Stabilizer available for higher radio weight)		20 Lbs. (9 Kg.)	20 Lbs. (9 Kg.)	12 Lbs. (5.5 Kg.)

Mechanical

Reflector Material	Glass Fiber Reinforced Polyester SMC		
Antenna Optics	Prime Focus, Offset Feed, Four-piece		
Mast Pipe Size	6" SCH 40 Pipe (6.63" OD) 16.83 cm.		
Elevation Adjustment Range	5° to 90° Continuous Fine Adjustment		
Azimuth Adjustment Range	360° Continuous, +/- 10° Fine Adjustment		
Mount Type	Elevation over Azimuth		
Shipping Specifications	Shipping Weight (Total): Install (Net) Weight:	545 lbs. (248 kg.) 365 lbs. (166 kg.)	

Environmental Performance

Wind Loading	Operational Survival	50 mph (80 km/h) 125 mph (201 km/h)
Temperature Range	Operational	-40° to 140°F (-40° to 60°C)
Rain	Operational	1/2" (13mm) / hr
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	