



## MAVERICK Fixed Site 1.8M

Electrical		C-Band Linear	C-Band Circular	Ku-Band Linear
Antenna Size		1.8 M (71 in.)	1.8 M (71 in.)	1.8 M (71 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
Midband Gain ( +/- .2dB)	Receive Transmit	35.50 dBi 39.50 dBi	35.30 dBi 39.30 dBi	44.80 dBi 46.80 dBi
Antenna Noise Temperature	10° Elevation 20° Elevation 30° Elevation 40° Elevation	45 K 41 K 41 K 40 K	45 K 41 K 41 K 40 K	69 K 64 K 63 K 62 K
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)
Cross Polarization Isolation	On Axis With 1.0 dB Beamwidth	30 dB 26 dB	17.7 dB Tx 15.5 dB Rx 17.7 dB Tx 15.5 dB Rx	30 dB 26 dB
Insertion Loss		0.2 dB max.		
Cross-Pol Isolation (Linear)		>30 dB (on axis)		
VSWR		1.3:1 Max.	1.3:1 Max.	1.3:1 Max. Tx 1.5:1 Max.
Output Waveguide Interface Flange		WR137 or NTx WR229 Rx	WR137 or NTx WR229 Rx	WR75 WR229 Rx
Power Handling		1 kW	1 kW	100 W
<b>Mechanical</b>				
Reflector Material		Glass Fiber Reinforced Polyester SMC		
Antenna Optics		Prime Focus, Offset Feed		
Mount Type		Elevation over Azimuth		
Mast Pipe Size		3.5" SCH 40 Pipe (4.00" 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.)
<b>Environmental Performance</b>				
Wind Loading	Operational Survival	45 mph (72 km/h) 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		
Solar Radiation		360 BTU/h/ft <sup>2</sup>		