

1.2M CIRCULAR KA / KU RX/TX ANTENNA SYSTEM



Electrical (typical):	Receive	Transmit
Operating Frequency	Ku: 10.95 - 12.75 GHz Ka: 18.30 - 20.20 GHz	Ku: 14 - 14.5 GHz Ka: 28.1 - 30 GHz
Gain	41.7 dBi at 11.85 GHz	43.2 dBi at 14.25 GHz
(typical, including feed/diplexer losses)	45.6 dBi at 19.3 GHz	49.2 dBi at 29.1 GHz
Efficiency	KU: 70%	KU: 70%
(typical at horn interface)	Ka: 68%	Ka: 68%
Cross Polarization (on axis)	Linear Pol	> 30 dB
	Circular Pol	> 25 dB
Antenna Noise Temperature	Ku: 40° K	
(typical @30° Elevation)	Ka: 50° K	
Mechanical Performance:		
Reflector Material	Pre Galvanized Steel	
Antenna Optics	Single Offset	
Mount Type	3 Axis: Azimuth, Elevation & Skew	
Polarization (Skew) Adjustment Range	360° Continuous	
Elevation Adjustment Range	0° - 90° Continuous with fine adjustment	
Azimuth Adjustment Range	360° Continuous with ± 5 ° fine adjustment	
Mast Pipe Interface	2.375"	
Environmental Performance:		
Wind Loading	Operational: 50 MPH / Survival: 125 MPH	
Temperature	Operational: -40° to 140°F (-40° to 60°C) Survival: -60° to 180°F (-51° to 82°C)	
Ice	Survival: 1/2" (1.25cm) radial	