1.2M Ku-Band Rx/Tx High Wind Antenna Series 2120

Technical Specifications

Electrical			Series 2120 Ku-Band	
Antenna Size			1.2 M (47.00 in.)	
Operating Frequency (GH	(GHz) Receive Transmit		10.70 - 12.75 GHz 13.75 - 14.50 GHz	
Midband Gain (+ .2dB)	Receive Transmit		41.40 dBi 43.30 dBi	
Antenna Noise Temperature 20° Elevation 30° Elevation			57 K 56 K	
Sidelobe Envelope, Co-Pol (dBi) $100\lambda / D < \theta \le 20^{\circ}$ $20^{\circ} < \theta \le 26.3^{\circ}$ $26.3^{\circ} < \theta \le 48^{\circ}$ $\theta > 48^{\circ}$			29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)	
Cross-Polarization On Axis Within B.P.E			Tx: 35 dB Rx: 30 dB Tx: 27 dB Rx: 25 dB	
VSWR			Tx: 1.3:1 Max Tx: 1.5:1 Max	
Mechanical				
Reflector Material		Glass Fiber Reinforced Polyester SMC		
Antenna Optics		Single Piece Offset, Prime Focus		
Mast Pipe Size		2.50" Sch 40 Pipe (2.88" OD) 73.2 mm (72mm min., 74mm max.)		
Elevation Adjustment Range		5° - 90° Continuous Fine Adjust		
Azimuth Adjustment Range		360° Cont. Coarse Adj., ±15° Fine Adjust		
Polarization Adjustment Range		±90° Continuous Coarse Adjust		
Maximum Transmitter Weight		12 lbs.		
Feed Support Tailpiece		Available as needed		
Shipping Specifications		90 lbs. (41 kg.)		
Environmental Perform	ance			
Wind Loading	Operational Survival Survival (no perm. damage) Survival (no breakaway)	65 mph (104 km/h) - 0.5 dB Loss @ 14.25 GHz 90 mph (144 km/h) - No Repoint Required 125 mph (201 km/h) - No Permanent Damage 150 mph (240 km/h) - No Breakaway		
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		
lce	Operational Survival	 1/2″ radial		
Atmospheric Conditions		Salt, Pollut	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas	

360 BTU/h/ft2

Solar Radiation

GENERAL DYNAMICS

SATCOM Technologies

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