1.2M Ku-Band Rx/Tx Antenna

Series 1134

Technical Specifications

Electrical		Series 1134 Ku-Band
Antenna Size		1.2 M (48 in.)
Operating Frequency (GHz)	Receive Transmit	10.95 - 12.75 GHz 14.00 - 14.50 GHz
Midband Gain (+ .2dB)	Receive Transmit	41.50 dBi 43.00 dBi
Antenna Noise Temperature 20° Elevation 30° Elevation		46 K 43 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	Within 1 dB contour Any Angle off Axis	-30 dB Max. -25 dB Max.
VSWR		1.3:1 Max.

Mechanical		
Reflector Material	Glass Fiber Reinforced Polyester SMC	
Antenna Optics	Prime Focus, Offset Feed	
Mast Pipe Size	2 1/2" SCH 40 Pipe (2.88" OD) 73.2 mm.	
Elevation Adjustment Range	5° to 90° Continuous Fine Adjustment	
Azimuth Adjustment Range	+/- 20° Fine, 360° Continuous	
Mount Type	Elevation over Azimuth	
Shipping Specifications	90 lbs. (41 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/ft2	

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