1.2M Ku-Band Rx/Tx Antenna

Series 1123 & 1125

Technical Specifications

Electrical		Series 1123 & 1125		
		Ku-Band		
Antenna Size		1.2 M (48 in.)	1.2 M (48 in.)	
Operating Frequency (GHz) Transmit Midband Gain (+ .2dB) Receive Transmit		10.95 - 12.75 GHz		
		14.00 - 14.50 GHz		
		41.70 dBi	41.70 dBi 43.20 dBi	
		43.20 0BI		
Antenna Noise Temperature 20° Elevation		46 K	46 K	
30° Elevation		43 K		
Sidelobe Envelope, Co-Pol (dBi)				
$1^{\circ} < \theta < 20^{\circ}$		29 - 25 Log0 dBi		
$20^{\circ} < \theta < 26.3^{\circ}$		-3.5 dBi		
$26.3^{\circ} < \theta < 48^{\circ}$ $48^{\circ} < \theta$		32 - 25 Logθ dBi	-10 dBi (averaged)	
Feed Interface			Available in a variety of designs	
Insertion Loss		0.2 dB max.		
Cross-Polarization		>30 dB (on axis)	>30 dB (on axis)	
VSWR		1.3:1 Max.	1.3:1 Max.	
Mechanical				
Reflector Material		Glass Fiber Reinforced Polyester SMC	Glass Fiber Reinforced Polyester SMC	
Antenna Optics		Prime Focus, Offset Feed	Prime Focus, Offset Feed	
Mast Pipe Size		2.5" SCH 40 Pipe (2.88" OD) 7.32 cm	2.5" SCH 40 Pipe (2.88" OD) 7.32 cm	
		Series 1123	Series 1125	
Elevation Adjustment Range		5° - 90° Continuous, Fine Adjustment	12° - 90° Continuous, Fine Adjustment	
Azimuth Adjustment Range		360° Continuous, + 35° Fine	360° Continuous	
Shipping Specifications		83 lbs. (37.6 kg.)	61 lbs. (27.7 kg.)	
Environmental Perfor	rmance			
Wind Loading Operational		50 mph (80 km/h)		
_	Survival	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		
lce	Operational			
Survival			1/2" radial	
Atmospheric Conditions			Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas	
Solar Radiation		360 BTU/h/ft2	360 BTU/h/ft2	

GENERAL DYNAMICS

SATCOM Technologies

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