## 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.)		
Operating Frequency (GHz) Midband Gain ( + .2dB) Receive Transmit		10.95 - 12.75 GHz		
		14.00 - 14.50 GHz		
		41.70 dBi 43.20 dBi		
Antenna Noise Temperature				
20° Elevation		46 K		
30° Elevation		43 K	43 K	
Sidelobe Envelope, Co-Pol (dBi)				
$100\lambda / D < \theta \le 20^{\circ}$			29 - 25 Log0 dBi	
$20^{\circ} < \theta \le 26.3^{\circ}$ $26.3^{\circ} < \theta \le 48^{\circ}$		-3.5 dBi 32 - 25 Loga dBi	-3.5 dBi 32 - 25 Logθ dBi	
$\theta > 48^{\circ}$			-10 dBi (averaged)	
Feed Interface		Available in a variety of designs	Available in a variety of designs	
Insertion Loss		0.2 dB max.	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 Perform	ance			
Wind Loading	Operational	50 mph (80 km/h)		
	Survival	125 mph (201 km/h)		
Temperature	Operational	-40° to 140° F (-40° to 60° C)		
	Survival	-50° to 160° F (-46° to 71° C)		
Rain	Operational Survival	1/2"/hr 2"/hr		
lce	Operational			
	Survival	1/2" radial	1/2" radial	
Atmospheric Conditions		Salt, Pollutants and Contaminants as End	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas	
Solar Radiation		360 BTU/h/ft2	360 BTU/h/ft2	

## GENERAL DYNAMICS

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