

# 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)	Receive Transmit	10.95 - 12.75 GHz 14.00 - 14.50 GHz
Midband Gain ( + .2dB)	Receive Transmit	41.70 dBi 43.20 dBi
Antenna Noise Temperature		
20° Elevation		46 K
30° Elevation		43 K
Sidelobe Envelope, Co-Pol (dBi)		
100λ / D < θ ≤ 20°		29 - 25 Logθ dBi
20° < θ ≤ 26.3°		-3.5 dBi
26.3° < θ ≤ 48°		32 - 25 Logθ dBi
θ > 48°		-10 dBi (averaged)
Feed Interface		Available in a variety of designs
Insertion Loss		0.2 dB max.
Cross-Polarization		>30 dB (on axis)
VSWR		1.3:1 Max.

Mechanical		
Reflector Material		Glass Fiber Reinforced Polyester SMC
Antenna Optics		Prime Focus, Offset Feed
Mast Pipe Size		2.5" SCH 40 Pipe (2.88" OD) 7.32 cm
		<b>Series 1123</b>
		<b>Series 1125</b>
Elevation Adjustment Range		5° - 90° Continuous, Fine Adjustment
Azimuth Adjustment Range		360° Continuous, + 35° Fine
Shipping Specifications		83 lbs. (37.6 kg.)
		61 lbs. (27.7 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

## GENERAL DYNAMICS

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