

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
		Series 1123
		Series 1125
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

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