95 CM Ku-Band Rx/Tx Antenna

Series 1952

Technical Specifications

Electrical		Series 1952 Ku-Band
Antenna Size		95 CM (38 In.)
Reflector Dimensions		53.00" X 26.50" Ellipse
Operating Frequency (GHz)	Receive Transmit	10.95 - 12.75 GHz 13.75 - 14.50 GHz
Midband Gain (+ .2dB)	Receive Transmit	39.70 dBi 41.20 dBi
First Sidelobe (Typical)		-23 dB
Antenna Noise Temperature 20° Elevation 30° Elevation		43 K 41 K
Sidelobe Envelope, Co-Pol (dBi) $100\lambda / D < \theta \leq 20^{\circ}$ $20^{\circ} < \theta \leq 26.3^{\circ}$ $26.3^{\circ} < \theta \leq 48^{\circ}$ $\theta > 48$		29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)
Cross-Polarization		>30 dB on Axis
VSWR		1.3:1 Max.
Feed Interface		Available in a variety of designs

Mechanical		
Reflector Material	One Piece Glass Fiber Reinforced Polyester SMC	
Antenna Optics	Prime Focus, Offset Feed Elliptical	
Mount Type	Elevation over Azimuth Continuous Reflector Polarization	
Mast Pipe Size	2.5" SCH 40 Pipe (2.88" OD) 7.32 cm	
Elevation Adjustment Range	0° to 90°, Continuous Fine Adjustment	
Azimuth Adjustment Range	360° Continuous	
Shipping Specifications	53 lbs.	

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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