89CM Ku-Band Rx/Tx Antenna Series 1892

Technical Specifications

Electrical		Series 1892 Ku-Band
Antenna Size		89 CM (88.90 CM Max any dimension)
Operating Frequency (GHz)	Receive Transmit	10.95 - 12.75 GHz 13.75 - 14.50 GHz
Midband Gain (+/2dB)	Receive Transmit	38.90 dBi 40.50 dBi
Antenna Noise Temperature 20° Elevation 30° Elevation 40° Elevation		48 K 47 K 46 K
$ \begin{array}{l} \mbox{Sidelobe Envelope, Co-Pol (dBi)} \\ 100\lambda \ / \ D < \theta \le 20^{\circ} \\ 20^{\circ} < \theta \le 26.3^{\circ} \\ 26.3^{\circ} < \theta \le 48^{\circ} \\ \theta > 48^{\circ} \end{array} $		29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)
Cross-Polarization	Within PE:	1 dB Contour-30 dB MaxAny angle off axis-25 dB Max
VSWR		1.3:1 Max.
Mechanical		
Reflector Material		One Piece Glass Fiber Reinforced Polyester SMC
Antenna Optics		Prime Focus, Offset Feed
Mount Type		Elevation over Azimuth
Mast Pipe Size		2.5" SCH 40 Pipe (2.88" OD) 7.32cm
Elevation Adjustment Range		5° to 90°, Continuous Fine Adjustment
Azimuth Adjustment Range		+/- 10° Fine, 360° Continuous
Shipping Specifications		80 lbs. (36 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

SATCOM Technologies

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