1.2M Ku-Band Rx/Tx Series 1132

Technical Specifications

Electrical			Series 1132 Ku-Band
Antenna Size			1.2 M (47 in.)
Operating Frequency (GHz)	Receive Transmit		10.70 - 12.75 GHz 13.75 - 14.50 GHz
Midband Gain (+/5dB)	Receive Transmit		41.4 dBi 43.3 dBi
Antenna Noise Temperature	20° Elevation 30° Elevation		57 K 56 K
Pattern Beamwidth (in degrees at midband)	-3 dB -15 dB		Tx: 1.2° Rx: 1.5° Tx: 2.8° Rx: 3.4°
$\begin{array}{l} \text{Sidelobe Envelope, Co-Pol (dBi)}\\ 100\lambda/D \leq \ \theta \leq 20^{\circ}\\ 20^{\circ} < \theta \leq 26.3^{\circ}\\ 26.3^{\circ} < \theta \leq 48^{\circ}\\ 48^{\circ} < \theta \end{array}$			29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged)
Power Handling			100 W
Cross-Polarization Isolation	On Axis Within 1.0 dB Beamwidth		Tx: 35 dB Rx: 30 dB Tx: 27 dB Rx: 25 dB
VSWR			Tx: 1.3:1 Max Rx: 1.5:1 Max
Feed Interface Output Waveguide Interface Flange			WR75
ODU			Tier 1 = 6 lbs. Tier 2 = 12 lbs
Mechanical			
Reflector Material		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) 73 mm.	
Elevation Adjustment Range		5° to 90°, Continuous Fine Adjustment	
Azimuth Adjustment Range		+ 20° Fine, 360° Continuous	
Shipping Specifications: Approx. Net Weight 48 lbs. (2			kg.)
Environmental Performance			

Environmental Performance	;	
Wind Loading	Operational Survival	50 mph (80 km/h) 125 mph (201 km/h)
Temperature	Operational	-40° to 140° F (-40° to 60° C)
Rain	Operational	1/2" (13 mm)/hr
lce	Operational	
Atmospheric Conditions		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Relative Humidity		0 to 100% with Condensation
Solar Radiation		360 BTU/h/ft2

GENERAL DYNAMICS

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