## **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°	
$\begin{array}{l} \mbox{Sidelobe Envelope, Co-Pol (dBi)} \\ 100\lambda/D \leq \ \theta \leq 20^{\circ} \\ 20^{\circ} < \theta \leq 26.3^{\circ} \\ 26.3^{\circ} < \theta \leq 48^{\circ} \\ 48^{\circ} < \theta \end{array}$			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 I		48 lbs. (22 l	kg.)	
Environmental Performance				
0		50 mph (80		

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 SATCOM Technologies

1500 Prodelin Drive • Newton, NC 28658 USA

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