1.2M Ku-Band Rx/Tx Antenna Series 1134

Technical Specifications

		Series 1134
Electrical		Series 1134 Ku-Band 1.2 M (48 in.)
Antenna Size		
Operating Frequency (GHz	Receive	10.95 - 12.75 GHz
	Transmit	14.00 - 14.50 GHz
Midband Gain (+ .2dB)	Receive	41.50 dBi
	Transmit	43.00 dBi
Antenna Noise Temperature 20° Elevation		46 K
30° Elevation		40 K 43 K
Sidelobe Envelope, Co-Pol (dBi)	
$1^{\circ} \le \Theta \le 20^{\circ}$		29 - 25 Logθ dBi
20° < θ < 26.3°		-3.5 dBi
26.3° < θ ≤ 48° 48° < θ		32 - 25 Logθ dBi -10 dBi (averaged)
Cross-Polarization	Within 1 dB contour	-30 dB Max.
	Any Angle off Axis	-25 dB Max.
VSWR		1.3:1 Max.
Mechanical		
Reflector Material		Glass Fiber Reinforced Polyester SMC
Antenna Optics		Prime Focus, Offset Feed
Mast Pipe Size		2 1/2" SCH 40 Pipe (2.88" OD) 73.2 mm.
Elevation Adjustment Range		5° to 90° Continuous Fine Adjustment
Azimuth Adjustment Range		+/- 20° Fine, 360° Continuous
Mount Type		Elevation over Azimuth
Shipping Specifications		90 lbs. (41 kg.)
Environmental Performan	ice	
Wind Loading	Operational	50 mph (80 km/h)
	Survival	125 mph (201 km/h)
	Operational	-40° to 140° F (-40° to 60° C)
	Survival	-50° to 160° F (-46° to 71° C)
	Operational Survival	1/2″/hr 2″/hr
lce	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

1500 Prodelin Drive • Newton, NC 28658 USA • Telephone: +1-828-464-4141 • Fax: +1-828-464-4147 Email: vsat@gdsatcom.com • Web Site: www.gdsatcom.com

1000-041 Rev. 05/11

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