

2.4M C & Ku-Band Receive Only

Series 1253

Technical Specifications

Electrical	C-Band	Ku-Band
Antenna Size	2.4M (96 in.)	2.4M (96 in.)
Operating Frequency (GHz)	3.625 - 4.2 GHz	10.95 - 12.75 GHz
Midband Gain (+/- .5dB)	37.50 dBi	46.50 dBi
3 dB Beamwidth	2.1°	0.7°
Antenna Noise Temperature		
20° Elevation	37 K	41 K
30° Elevation	36 K	41 K
Feed Interface	CPR 229 F	WR 75
Cross-Pol Isolation (Linear)	>30 dB (on axis)	>30 dB (on axis)
First Sidelobe (typical)	- 20 dB	- 20 dB
VSWR	1.3:1 Max.	1.3:1 Max.
Insertion Loss	0.2 dB Max.	0.2 dB Max.

Mechanical	
Reflector Material	Three Segment Glass Fiber Reinforced Polyester SMC
Antenna Optics	Prime Focus, Axisymmetric
Mast Pipe Size	5" SCH 40 Pipe (5.56" OD) 14.13 mm.
Elevation Adjustment Range	10° to 70° CFA
Azimuth Adjustment Range	360° Continuous Course
f/D Ratio/Feed Support	0.37/Tripod Feed Support
Declination Corrected Polar Range	90° Arc Coverage with 24" Actuator, Available
Shipping Specifications (Packaged Weight)	Polar: 245 lbs. (111 kg.)

Environmental Performance	
Wind Loading	
Operational	50 mph (80 km/h)
Survival	125 mph (201 km/h)
Temperature	
Operational	-40° to 140° F (-40° to 60° C)
Survival	-50° to 160° F (-46° to 71° C)
Rain	
Operational	1/2" /hr
Survival	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/ft ²

GENERAL DYNAMICS

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