

4.5M C or Ku-Band Receive Only

Series 1451

Technical Specifications

Electrical	C-Band Linear	C-Band Circular	Ku-Band Linear
Antenna Size	4.5 M (15 ft.)	4.5 M (15 ft.)	4.5 M (15 ft.)
Operating Frequency (GHz)	3.625 - 4.2 GHz	3.625 - 4.2 GHz	10.95 - 12.75 GHz
Midband Gain (+/- .5dB)	42.9 dBi	42.6 dBi	51.9 dBi
3dB Beamwidth	1.2°	1.2°	0.41°
Feed Interface	CPR 229	CPR 229	WR 75
Cross-Pol Isolation	>30 dB Min. (on axis)	>17 dB Min. (on axis)	>30 dB Min. (on axis)
First Sidelobe (typical)	- 20 dB	- 20 dB	- 20 dB
VSWR	1.3:1 Max.	1.5:1 Max.	1.3:1 Max.

Mechanical	
Reflector Material	Glass Fiber Reinforced Polyester SMC
Antenna Optics	8 Piece Axisymmetric, Prime Focus
Mast Pipe Size	10" SCH 40 Pipe (10.75" OD) 27.30 cm.
Elevation Adjustment Range	5° to 90° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous
Shipping Specifications (Weight)	950 lbs. (428 kg.)

Environmental Performance	
Wind Loading Operational Survival	45 mph (72 km/h) 125 mph (201 km/h)
Temperature Operational	-40° to 140° F (-40° to 60° C)
Relative Humidity	0 to 100% (Condensing)
Rain (operational)	1/2' / Hr.
Atmospheric Conditions	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Solar Radiation	360 BTU/h/ft ²

GENERAL DYNAMICS SATCOM Technologies

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