

4.5M

C OR KU-BAND

RECEIVE ONLY

SERIES 1451



Prodelin Corporation is the world's largest manufacturer of Rx/Tx VSAT antennas. We have the broadest product line in the industry including Receive Only, Rx/Tx and Rural Telephony antenna systems. Prodelin offers nineteen antenna sizes, 47cm to 4.5M. Prodelin is the leader in obtaining type certifications and approvals for Intelsat, AsiaSat and Eutelsat. Prodelin antennas provide the best quality in the market due to the sophisticated, precision SMC compression molding process technology. Prodelin provides the best value antenna solution to the market with competitive prices, the highest quality products and superb engineering support. Prodelin is ISO registered, KEMA # 70022.01. *Prodelin - The Market Leader in VSAT Antennas.*



Back View  
Series 1254



Option  
Ku-Band Feed

## Key Features

- Precision Compression molded reflector
- Low transportation cost with eight panel reflector
- Individual panels interchangeable and field replaceable
- Fully galvanized Az/El steel mount
- Galvanized king post included

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Electrical		Series 1451	
		C-Band	Ku-Band
Antenna Size		4.5 M (15 ft.)	4.5 M (15 ft.)
Operating Frequency (GHz)		3.625 - 4.2	10.95 - 12.75
Midband Gain ( $\pm$ .2dB)		42.9 dBi	52.6 dBi
Polarization		Linear	Linear
3dB Beamwidth		1.2°	.42°
Feed Interface		CPR 229	WR 75
First Sidelobe (Typical)		-20 dB	-20 dB
Cross-Pol Isolation		>30 dB Min. (on axis)	>30 dB Min. (on axis)
VSWR		1.3:1 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	45 mph (72 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)	
Atmospheric Conditions		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas	
Solar Radiation		360 BTU/h/ft <sup>2</sup>	

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