

.98M KU-BAND

RX/TX

SERIES

1984



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  
.98 M Rx/Tx



Option  
Feed Horn w/ OMT &  
Transmit Reject Filter

## Key Features

- New optics for low cross-pol compliance
- Precision compression molded offset reflector
- Low cost shipping & easy local handling
- Simplified one-man installation - less than 20 minute assembly
- ETSI Certified

Receive/Transmit

Series 1984

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## Electrical

## Series 1984

## Ku-Band

Antenna Size		.98M (38.22 in.)
Operating Frequency (GHz)	Receive	10.95 - 12.75 GHz
	Transmit	13.75 - 14.5 GHz
Midband Gain ( + .2dB)	Receive	39.8 dBi
	Transmit	41.3 dBi
Antenna Noise Temperature		
20° elevation		47 K
30° elevation		46 K
Sidelobe Envelope, Co-Pol (dBi)		
$100\lambda / D \theta < 20^\circ$		29-25 Log $\theta$ dBi
$20^\circ < \theta < 26.3^\circ$		- 3.5 dBi
$26.3^\circ < \theta < 48^\circ$		32 -25 Log $\theta$ dBi
$48^\circ < \theta$		-10 dBi (averaged)
Cross-Polarization	Within B.P.E.	-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		2.5" SCH 40 Pipe (2.88" OD) 7.32 cm.
Elevation Adjustment Range		5° to 90° Continuous Fine Adjustment
Azimuth Adjustment Range		+ 20° Fine, 360° Continuous
Mount Type		Elevation over Azimuth
Shipping Specifications		65 lbs. (30 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 <sup>2</sup>



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