

.98M KU-BAND**RX/TX****SERIES****1981**

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

- European Telecommunications Standards (ETSI) certified
- Eutelsat approved
- Improved optics for low cross-pol compliance
- Precision compression molded offset reflector
- Low cost shipping & easy local handling
- Simplified one-man installation - less than one hour assembly

Receive/Transmit

Series 1981

.98M KU-BAND

RX/TX

SERIES

1981

Electrical

Series 1134

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 ($\pm .2\text{dB}$)	Receive	39.8 dBi
	Transmit	41.3 dBi
Antenna Noise Temperature		
	20° elevation	47 K
	30° elevation	46 K
Sidelobe Envelope, Co-Pol (dBi)		
	100λ / D $\theta \leq 20^\circ$	29-25 Log θ dBi
	20° < θ $\leq 26.3^\circ$	-3.5 dBi
	26.3° < θ $\leq 48^\circ$	32-25 Log θ dBi
	48° < θ	-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	80 lbs. (36 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	



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