

.98M KU-BAND

RX/TX

SERIES

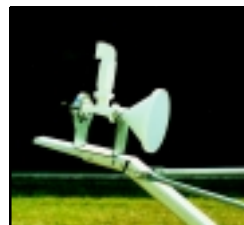
1981



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

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Electrical		Series 1134 Ku-Band
Antenna Size		.98M (38.22 in.)
Operating Frequency (GHz)	Receive Transmit	10.95 - 12.75 GHz 13.75 - 14.5 GHz
Midband Gain (\pm .2dB)	Receive Transmit	39.8 dBi 41.3 dBi
Antenna Noise Temperature		
20° elevation		47 K
30° elevation		46 K
Sidelobe Envelope, Co-Pol (dBi)		
$100\lambda / D \theta \leq 20^\circ$		29-25 Log θ dBi
$20^\circ < \theta \leq 26.3^\circ$		- 3.5 dBi
$26.3^\circ < \theta \leq 48^\circ$		32 -25 Log θ dBi
$48^\circ < \theta$		-10 dBi (averaged)
Cross-Polarization	Within B.P.E. Any Angle off Axis	-30 dB Max. -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		\pm 20° Fine, 360° Continuous
Mount Type		Elevation over Azimuth
Shipping Specifications		80 lbs. (36 kg.)
Environmental Performance		
Wind Loading	Operational Survival	50 mph (80 km/h) 125 mph (201 km/h)
Temperature	Operational Survival	-40° to 140° F (-40° to 60° C) -50° to 160° F (-46° to 71° C)
Rain	Operational Survival	1/2" /hr 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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