

1.2M KU-BAND

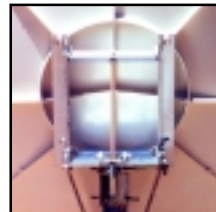
RX/TX

SERIES

1123 & 1125



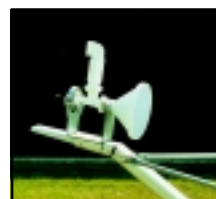
Prodelin Corporation is the world's largest manufacturer of Rx/Tx VSAT antennas. We have the broadest product line in the industry including Receive Only, Rx/Tx and Rural Telephony antenna systems. Prodelin offers nineteen antenna sizes, 47cm to 4.5M. Prodelin is the leader in obtaining type certifications 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 1123



Back View
Series 1125



Option
Feed Horn w/ OMT &
Transmit Reject Filter

Key Features

- Precision Compression Molded Offset Reflector
- Fully Galvanized Steel Mounts
- Optional Non-Penetrating Mast Mount Available
- Reflector/Feed Electrical Anti-Icing Available
- Low Cost Shipping and Easy Local Handling

Receive/Transmit

Series 1123 & 1125

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Electrical

**Series 1123 & 1125
Ku-Band**

Antenna Size		1.2 M (48 in.)
Operating Frequency (GHz)	Receive	10.95 - 12.75
	Transmit	14.0 - 14.5
Midband Gain (\pm .2dB)	Receive	41.7 dBi
	Transmit	43.2 dBi
Antenna Noise Temperature	20° elevation	46 K
	30° elevation	43 K
Sidelobe Envelope, Co-Pol (dBi)	$1^\circ \leq \theta \leq 20^\circ$	29-25 Log θ
	$20^\circ < \theta \leq 26.3^\circ$	- 3.5 dBi
	$26.3^\circ < \theta \leq 48^\circ$	32 -25 Log θ
	$48^\circ < \theta$	-10 dBi (averaged)
Feed Interface		Available in a variety of designs
Insertion Loss		0.2 dB max.
Cross-Pol Isolation		>30 dB (on axis)
VSWR		1.3:1 Max.

Mechanical

Reflector Material		Glass Fiber Reinforced Polyester SMC
Antenna Optics		Prime Focus, Offset Feed
Mount Type		Elevation over Azimuth
Mast Pipe Size		2.5" SCH 40 Pipe (2.88" OD) 7.32 cm
Elevation Adjustment Range	<i>Series 1123</i>	5° to 90° Continuous
	<i>Series 1125</i>	12° to 90° Continuous
Azimuth Adjustment Range		Fine Adjustment
Shipping Specifications	<i>Series 1123</i>	360° Continuous, \pm 35° Fine
	<i>Series 1125</i>	360° Continuous
		83 lbs. (37.6 kg.)
		61 lbs. (27.7 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 7° 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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