

2.4M

C & KU-BAND

RECEIVE ONLY

SERIES

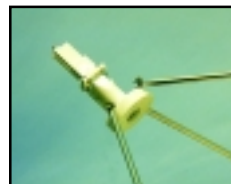
1252 & 1253



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 1253



Option
C-Band Feed

Key Features

- Precision compression molded centered reflector
- Series 1252 - Az/EI Mount
- Series 1253 - Polar mount
- Low transportation cost with three panel reflector
- Individual panels interchangeable and field replaceable
- Galvanized steel mounts

Receive Only
Series 1252 & 1253

2.4M

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SERIES

1252 & 1253

Electrical		Series 1252 & Series 1253	
		C-Band	Ku-Band
Antenna Size		2.4M (96 in.)	2.4M (96 in.)
Operating Frequency (GHz)		3.625 - 4.2 GHz	10.95 - 12.75 GHz
Midband Gain (±.2dB)		37.5 dBi	47.0 dBi
3 dB Beamwidth		2.1°	.7°
Antenna Noise Temperature (normal)			
20° elevation		33 K	29 K
30° elevation		31 K	28 K
Feed Interface		CPR 229 F	WR 75
Cross-Pol Isolation (Linear)		>30 dB (on axis)	>30 dB (on axis)
First Sidelobe (typical)		- 20 dB	- 20 dB
Insertion Loss		0.2 dB Max.	0.2 dB Max.
VSWR		1.3:1 Max.	1.3:1 Max.
Mechanical			
Reflector Material		Three Segment Glass Fiber Reinforced Polyester SMC	
Antenna Optics		Prime Focus, Axisymmetric	
Mast Pipe Size		5" SCH 40 Pipe (5.56" OD) 14.13 mm.	
Elevation Adjustment Range		0° to 90° Continuous Fine Adjustment	
Azimuth Adjustment Range		± 45° Fine, 360° Continuous	
f/D Ratio/Feed Support		.37/Tripod Feed Support	
Declination Corrected Polar Range		90° Arc Coverage with 24" Actuator, Available	
Shipping Specifications (Weight)		Az/EI: 205 lbs. (93 kg.)	Polar: 245 lbs. (111 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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