

2.4M & 3.7M

C - BAND

RX/TX

SERIES 1252

& 1374



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 1374



Options
C-Band Linear Feed

Key Features

- Precision Compression Molded Prime Focus Axisymmetric Reflector
- Individual Panels Interchangeable and field replaceable
- Fully galvanized steel Az/EI mount
- Reflector Electrical Anti-Icing Available

Receive/Transmit

Series 1252 & 1374

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Electrical		Series 1252		Series 1374	
Antenna Size		2.4M (96 in.)		3.7M (144 in.)	
Operating Frequency (GHz)	RX	3.625 - 4.2 GHz		3.625 - 4.2 GHz	
	TX	5.850 - 6.425 GHz		5.850 - 6.425 GHz	
Midband Gain (\approx 0.5dB)	RX	37.4 dB		40.9 dB	
	TX	41.2 dB		44.7 dB	
Antenna Noise Temperature		Linear	Circular	Linear	Circular
	10° elevation	41 K	35 K	32 K	30 K
	20° elevation	33 K	30 K	25 K	24 K
	30° elevation	31 K	28 K	23 K	21 K
Insertion Loss		.02 dB Max.		.02 dB Max.	
Power Handling Capability		500 Watts		500 Watts	
Sidelobe Envelope, (Transmit)					
	Mainbeam $< \theta < 48^\circ$	32 - 25 Log θ dBi		32 - 25 Log θ dBi	
	$48^\circ < \theta < 180^\circ$	- 10 dBi (averaged)		- 10 dBi (averaged)	
Polarization		Linear (Co- or Cross-Pol) & Circular		Linear (Co- or Cross-Pol) & Circular	
Feed Interface	RX	CPR 229 F		CPR 229 F	
	TX	CPR 137 or Type N		CPR 137 or Type N	
Cross-Pol Isolation		>30 dB (on axis)		>30 dB (on axis)	
VSWR		1.3:1 Max.		1.3:1 Max.	
3 dB Beamwidth	RX	2.2°		1.4°	
	TX	1.4°		0.9°	
Pol Rotation (manual)		\pm 90 deg. cont.		\pm 90 deg. cont.	
Isolation TX to RX		70 dBi min.		X-Pol: 75 dBi Min. Co-Pol: 60 dBi min.	
Mechanical					
Reflector Material		Glass Fiber Reinforced Polyester SMC		Glass Fiber Reinforced Polyester SMC	
Antenna Optics		3 Pc. Prime Focus, Axisymmetric		8 Pc. Prime Focus, Axisymmetric	
Mast Pipe Size		5" SCH 40 Pipe (5.56" OD) 14.13 cm.		6" SCH 80 Pipe (6.62" OD) 16.83 cm.	
Elevation Adjustment Range		0° to 90° Continuous Fine Adjustment		10° to 70° Continuous Fine Adjustment	
				(90° Optional)	
Azimuth Adjustment Range		360° Continuous		360° Continuous	
Shipping Specifications		225 lbs. (102 kg.)		715 lbs. (322 kg.)	
Environmental Performance					
Wind Loading	Operational	50 mph (80 km/h)		45 mph (72 km/h)	
	Survival	125 mph (201 km/h)		125 mph (201 km/h)	
Temperature	Operational	-40° to 140° F (-40° to 60° C)		-40° to 140° F (-40° to 60° C)	
	Survival	-50° to 160° F (-46° to 71° C)		-50° to 160° F (-46° to 71° C)	
Rain	Operational	1/2"/hr		1/2"/hr	
	Survival	2"/hr		2"/hr	
Ice	Operational	-----			
	Survival	1/2" radial		1/2" radial	
Atmospheric Conditions		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas			
Solar Radiation		360 BTU/h/ft ²		360 BTU/h/	



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