

1.8M

C & KU-BAND

RX/TX

SERIES

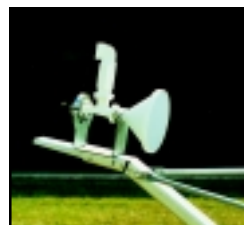
1194



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 1194



Option
Feed Horn w/ OMT &
Transmit Reject Filter

Key Features

- Ku-Band AsiaSat Approval
- Ku-Band EutelSat VSAT Approval
- Ku-Band ETSI Certification
- New optics for European standards compliance - low cross-pol
- Precision compression molded offset reflector
- Installation time reduced with improved mount design
- Fully galvanized steel Az/EI mount
- Reflector/Feed electrical anti-icing available
- Low cost shipping & easy local handling
- Simplified one-man installation - less than one hour assembly

Receive/Transmit

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Electrical		Series 1194	
		C-Band	Ku-Band
Antenna Size		1.8 M (71 in.)	1.8 M (71 in.)
Operating Frequency (GHz)	Receive	3.625 - 4.2	10.95 - 12.75
	Transmit	5.850 - 6.425	13.75 - 14.5
Midband Gain (\pm .2dB)	Receive	35.5 dBi	45.2 dBi
	Transmit	39.5 dBi	46.7 dBi
Antenna Noise Temperature		Linear	Circular
	20° elevation	49 K	23 K
	30° elevation	47 K	21K
Sidelobe Envelope, Co-Pol (dBi)			
	$1^\circ \leq \theta \leq 20^\circ$	29-25 Log θ dBi	29-25 Log θ dBi
	$20^\circ < \theta \leq 26.3^\circ$	- 3.5 dBi	- 3.5 dBi
	$26.3^\circ < \theta \leq 48^\circ$	32 -25 Log θ dBi	32 -25 Log θ dBi
	$48^\circ < \theta$	-10dBi (averaged)	-10dBi (averaged)
Feed Interface	Rx	CPR 229 F	Available in a variety of designs
	Tx	CPR 137 or Type N	Available in a variety of designs
Cross-Pol Isolation within B.P.E.		-26 dB Max.	-30 dB Max.
	Any Angle off Axis	-23 dB Max.	-25 dB Max.
Axial Ratio (circular)	Receive	2.28 dB	
	Transmit	1.60 dB	
VSWR		1.3:1 Max.	1.3:1 Max.
Mechanical			
Reflector Material		Glass Fiber Reinforced Polyester SMC	
Antenna Optics		Prime Focus, Offset Feed	
Mast Pipe Size		5" SCH 40 Pipe (5.56" OD) 141 mm.	
Elevation Adjustment Range		5° to 90° Continuous Fine Adjustment	
Azimuth Adjustment Range		\pm 45° Fine, 360° Continuous	
Shipping Specifications	Weight	245 lbs. (111 kg.)	235 lbs. (106.5 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	



1700 NE Cable Drive • Conover, NC 28613 USA
 Tel: (828) 464-4141 • Fax: (828) 466-0860
www.prodelin.com

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