


**89CM Ku-Band
Receive Transmit
Antenna System
Series 1891**
Features

- Compliant to UK 90CM Size Restraints
- European Telecommunications Standards (ETSI) certified
- Low cross-pol option
- Precision compression molded offset reflector
- Low cost shipping and easy local handling
- Simplified one-man installation - less than one hour assembly

Prodelin

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 Rural Telephony and Quick Deploy 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, #A2421.

Prodelin - The Market Leader in VSAT Antennas.



Back View
89 CM R/T

Specifications

Series 1891

Electrical

Antenna Size	89 CM (88.90 CM Max any dimension) ①	
Operating Frequency	Receive	10.95 - 12.75 GHz
	Transmit	13.75 - 14.5 GHz
Midband Gain (+ .2dB)	Receive	38.8 dBi
	Transmit	40.3 dBi
Antenna Noise Temperature		
20° elevation	48° K	
30° elevation	47° K	
40° elevation	46° K	
Sidelobe Envelope, Co-Pol		
100λ /D θ ≤ 20°	29-25 Log θ dBi	
20° < θ ≤ 26.3°	-3.5 dBi	
26.3° < θ ≤ 48°	32-25 Log θ dBi	
θ > 48°	-10 dBi (averaged)	
VSWR	1.3:1 Max.	
Cross-Polarization	ETSI Compliant:	1 dB Contour -28 dB Max
		Any angle off axis -25 dB Max

Mechanical

Reflector Material	Glass fiber reinforced polyester SMC	
Antenna Optics	Offset feed, prime focus	
Mount Type	Elevation over azimuth	
Elevation Adjustment Range	5° to 90°, continuous fine adjustment	
Azimuth Adjustment Range	+20° fine, 360° continuous	
Mast Pipe Size	2.5" SCH 40 pipe (2.88" OD) 7.32 cm.	

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
Shipping Specifications		80 lbs. (36 kg.)

① Compliant to United Kingdom's less than 90CM antenna requirements



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