

1.8 Meter Prodelin Tx Rx Antenna (Series 1184) - Intelsat



P180KUI
P180CCI

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- **Intelsat Type Approved - Ku Linear & C Circular**
- **Precision Compression Molded Reflector**
- **NPRM or Pedestal Mounts Available**

Electrical		C-Band Linear	C-Band Circular	Ku-Band
Antenna Size		1.8 M (71 in.)	1.8 M (71 in.)	1.8 M (71 in.)
Operating Frequency (GHz)	Receive	3.625 - 4.20 GHz	3.625 - 4.20 GHz	10.95 - 12.75 GHz
	Transmit	5.850 - 6.425 GHz	5.850 - 6.425 GHz	13.75 - 14.50 GHz
Midband Gain (+/- .2 dB)	Receive	35.50 dBi	35.50 dBi	45.00 dBi
	Transmit	39.50 dBi	39.50 dBi	46.50 dBi
Antenna Noise Temperature				
10° Elevation		56 K	30 K	44 K
20° Elevation		49 K	23 K	38 K
30° Elevation		47 K	21 K	35 K
40° Elevation		46 K	20 K	33 K
Sidelobe Envelope, Co-Pol (dBi)				
100λ / D < θ ≤ 20°		29 - 25 Logθ dBi	29 - 25 Logθ dBi	29 - 25 Logθ dBi
20° < θ ≤ 26.3°		-3.5 dBi	-3.5 dBi	-3.5 dBi
26.3° < θ ≤ 48°		32 - 25 Logθ dBi	32 - 25 Logθ dBi	32 - 25 Logθ dBi
θ > 48°		-10 dBi (averaged)	-10 dBi (averaged)	-10 dBi (averaged)
Cross-Pol Isolation (Linear)		>30 dB on axis	N/A	>30 dB on axis
Axial Ratio (Circular)	Receive	N/A	2.28	N/A
	Transmit	N/A	1.60	N/A
VSWR		1.3:1 Max.	1.3:1 Max.	1.3:1 Max.
Feed Interface	Receive	CPR 229 F	CPR 229 F	Available in a variety of designs
	Transmit	CPR 137 or Type N	CPR 137 or Type N	Available in a variety of designs

Mechanical

Reflector Material	Glass Fiber Reinforced Polyester SMC		
Antenna Optics	Prime Focus, One-Piece Offset Feed		
Mast Pipe Size	3.5" SCH 40 Pipe (4.00" OD) 10.16 cm.		
Elevation Adjustment Range	5° to 90°, Continuous Fine Adjustment		
Azimuth Adjustment Range	+/- 45° Fine Adjustment, 360° Continuous		
Mount Type	Elevation over Azimuth		
Shipping Specifications	C-Band: 225 lbs. (103 kg.)	Ku-Band: 240 lbs. (109 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/ft2	

TX-RX_P180KUI-CCI_PR-1184_REV002

Specifications are subject to change without notice

sales@vikingsatcom.com

www.vikingsatcom.com

T: 517.629.3000 • F: 517.629.2379 • 704 North Clark Street • Albion, MI