

1.8 Meter Prodelin Tx Rx Antenna (Series 1194) – Eutelsat



Your Trusted Source for Satellite Equipment



- Ku-band Eutelsat & AsiaSat Type Approved
- Precision Compression Molded Reflector
- Universal or Non Penetrating Roof Mount Options Available

P180KUE

Electrical		Series 1194 C-Band	Series 1194 Ku-Band
Antenna Size		1.8 M (71 in.)	1.8 M (71 in.)
Operating Frequency (GHz)	Receive Transmit	3.625 - 4.20 GHz 5.85 - 6.425 GHz	10.95 - 12.75 GHz 13.75 - 14.50 GHz
Midband Gain (+/- .2 dB)	Receive Transmit	35.50 dBi 39.50 dBi	45.20 dBi 46.70 dBi
Antenna Noise Temperature		Linear	Circular
20° Elevation		49 K	23 K
30° Elevation		37 K	21 K
Sidelobe Envelope, Co-Pol (dBi)			
1° ≤ θ ≤ 20°		29 - 25 Logθ dBi	29 - 25 Logθ dBi
20° < θ ≤ 26.3°		-3.5 dBi	-3.5 dBi
26.3° < θ ≤ 48°		32 - 25 Logθ dBi	32 - 25 Logθ dBi
48° < θ		-10 dBi (averaged)	-10 dBi (averaged)
Cross-Pol Isolation	Within B.P.E. Any Angle off Axis	-26 dB Max. -23 dB Max.	-30 dB Max. -25 dB Max.
VSWR		1.3:1 Max.	1.3:1 Max.
Axial Ratio (circular)	Receive Transmit	2.28 dB 1.60 dB	
Feed Interface	Receive Transmit	CPR 229 F CPR 137 or Type N	Available in a variety of designs Available in a variety of designs

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	+/- 45° Fine, 360° Continuous
Shipping Specifications	C-Band: 245 lbs. (111 kg.) Ku-Band: 235 lbs. (106.5 kg.)

Environmental Performance	
Wind Loading	Operational Survival
	50 mph (80 km/h) 125 mph (201 km/h)
Temperature	Operational Survival
	-40° to 140° F (-40° to 60° C) -50° to 160° F (-46° to 71° C)
Rain	Operational Survival
	1/2"/hr 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_P180KUE_PR-1194_REV002

Specifications are subject to change without notice

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