

# Series 2194 High Wind

1.8M Receive/Transmit High Wind Antenna

## Technical Specifications

### Electrical

	Ku-Band	C-Band
Antenna Size	1.8m (71.0")	1.8m (71.0")
Operating Frequency (GHz)	10.95–12.75 GHz Rx 13.75–14.50 GHz Tx	3.625–4.200 GHz Rx 5.850–6.425 GHz Tx
Midband Gain ( $\pm$ .2dB)	45.20 dBi (Rx) 46.70 dBi (Tx)	35.50 dBi (Rx) 39.50 dBi (Tx)
Polarization	Linear	Circular or Linear
Feed Interface	WR75	Type N or WR137 Tx; WR229 Rx
Cross-Polarization	-30 dB on axis	-30 dB within B.P.E.
Axial Ratio	N/A	1.3 VAR (2.28 dB)
VSWR	1.3:1 Max.	1.3:1 Max

### Mechanical

Reflector Material	Glass Fiber Reinforced Polyester SMC
Antenna Optics	Offset Fed, Prime Focus
Mast Pipe Size	6" SCH 40 Pipe (6.62" OD) 16.83 cm.
Azimuth Adjustment Range	360° Continuous Coarse Adjust, $\pm$ 10° Fine Adjustment
Elevation Adjustment Range	15° - 80° Continuous Fine Adjust

### Environmental Performance

Wind Loading	Operational	65mph (104km/h) with 0.5dB loss @ 14.25GHz 75mph (120km/h) with 1.0 dB loss @ 14.25GHz; 75mph (120km/h) with 0.5 dB loss @ 6.14GHz 90mph (145km/h) with 1.0 dB loss @ 6.14GHz
	Survival	150mph (240km/h)
Temperature	Operational	-40° to 140° F (-40° to 60° C)
	Survival	-50° to 160° F (-46° to 71° C)
Atmospheric Conditions		Salt, Pollutants and Contaminants as Encountered in Coastal Industrial Areas
Solar Radiation		360 BTU/h/ft <sup>2</sup>

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