

Series 2244 High Wind

2.4M Receive/Transmit Wind Antenna

Technical Specifications

Electrical

Antenna Size

Operating Frequency (GHz)

Midband Gain (± 2 dB)

Polarization

Feed Interface

Cross-Polarization

Axial Ratio

VSWR

Ku-Band

2.4m (96.0")

10.95–12.75 GHz Rx
13.75–14.50 GHz Tx

47.60 dBi (Tx)
49.20 dBi (Rx)

Linear

WR75

-30 dB on axis

N/A

1.3:1 Max.

C-Band

2.4m (96.0")

3.625–4.200 GHz Rx
5.850–6.425 GHz Tx

38.00 dBi (Tx)
42.00 dBi (Rx)

Circular or Linear

Type N or WR137 Tx
WR229 Rx

-30 dB within B.P.E.

1.3 VAR (2.28 dB)

1.3:1 Max

Mechanical

Reflector Material

Antenna Optics

Mast Pipe Size

Azimuth Adjustment Range

Elevation Adjustment Range

Glass Fiber Reinforced Polyester SMC

4 Piece Offset, Prime Focus

6" SCH Pipe (6.63" OD) 16.83cm.

360° Continuous Coarse Adjust,
 $\pm 45^\circ$ Fine Adjustment

5° - 90° 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/ft²

GENERAL DYNAMICS

C4 Systems

1500 Prodelin Drive ■ Newton, NC 28658 ■ Tel 828-464-4141 ■ Fax 828-466-0860 ■ www.gdsatcom.com

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