

1.2M Ku-Band Rx/Tx High Wind Antenna

Series 2120

Technical Specifications

| Electrical | | Series 2120 Ku-Band |
|--|---------------------|--|
| Antenna Size | | 1.2 M (47.00 in.) |
| Operating Frequency (GHz) | Receive Transmit | 10.70 - 12.75 GHz 13.75 - 14.50 GHz |
| Midband Gain (+ .2dB) | Receive Transmit | 41.40 dBi 43.30 dBi |
| Antenna Noise Temperature 20° Elevation 30° Elevation | | 57 K 56 K |
| Sidelobe Envelope, Co-Pol (dBi) 100λ / D < θ ≤ 20° 20° < θ ≤ 26.3° 26.3° < θ ≤ 48° θ > 48° | | 29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged) |
| Cross-Polarization On Axis Within B.P.E | | Tx: 35 dB Rx: 30 dB Tx: 27 dB Rx: 25 dB |
| VSWR | | Tx: 1.3:1 Max Tx: 1.5:1 Max |

| Mechanical | |
|-------------------------------|---|
| Reflector Material | Glass Fiber Reinforced Polyester SMC |
| Antenna Optics | Single Piece Offset, Prime Focus |
| Mast Pipe Size | 2.50" Sch 40 Pipe (2.88" OD) 73.2 mm (72mm min., 74mm max.) |
| Elevation Adjustment Range | 5° - 90° Continuous Fine Adjust |
| Azimuth Adjustment Range | 360° Cont. Coarse Adj., ±15° Fine Adjust |
| Polarization Adjustment Range | ±90° Continuous Coarse Adjust |
| Maximum Transmitter Weight | 12 lbs. |
| Feed Support Tailpiece | Available as needed |
| Shipping Specifications | 90 lbs. (41 kg.) |

| Environmental Performance | | |
|---------------------------|--|---|
| Wind Loading | Operational Survival Survival (no perm. damage) Survival (no breakaway) | 65 mph (104 km/h) - 0.5 dB Loss @ 14.25 GHz 90 mph (144 km/h) - No Repoint Required 125 mph (201 km/h) - No Permanent Damage 150 mph (240 km/h) - No Breakaway |
| 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/ft ² |

GENERAL DYNAMICS
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