



Technical Specifications

| Electrical | | C-Band Linear | C-Band Circular | Ku-Band |
|--|---------------------|--|--|--|
| Antenna Size | | 2.4M (96 in.) | 2.4M (96 in.) | 2.4M (96 in.) |
| Operating Frequency (GHz) | Receive Transmit | 3.625 - 4.20 GHz 5.85 - 6.425 GHz | 3.625 - 4.20 GHz 5.85 - 6.425 GHz | 10.70 - 12.75 GHz 13.75 - 14.50 GHz |
| Antenna Gain at Midband, dBi (\pm .2dB) | Receive Transmit | 38.20 dBi 42.20 dBi | 38.00 dBi 42.00 dBi | 47.40 dBi 49.20 dBi |
| VSWR | | 1.3:1 Max | 1.3:1 Max | Rx: 1.5:1 Max Tx: 1.3:1 Max |
| Pattern Beamwidth (in degrees at midband) | -3 dB -15 dB | Rx: 2.20° Tx: 1.40° Rx: 4.90° Tx: 3.10° | Rx: 2.20° Tx: 1.40° Rx: 4.90° Tx: 3.10° | Rx: 0.70° Tx: 0.60° Rx: 1.60° Tx: 1.40° |
| Sidelobe Envelope, Co-Pol (dBi) 100 λ / D < θ \leq 20° 20° < θ \leq 26.3° 26.3° < θ \leq 48° θ > 48° | | 29 - 25 Log θ dBi -3.5 dBi 32 - 25 Log θ dBi -10 dBi (averaged) | 29 - 25 Log θ dBi -3.5 dBi 32 - 25 Log θ dBi -10 dBi (averaged) | 29 - 25 Log θ dBi -3.5 dBi 32 - 25 Log θ dBi -10 dBi (averaged) |
| Antenna Noise Temperature 10° Elevation 20° Elevation 30° Elevation 40° Elevation | | 52 K 46 K 45 K 44 K | 57 K 49 K 45 K 45 K | 56 K 51 K 48 K 41 K |
| Cross Polarization Isolation (Linear) On Axis | Receive Transmit | >30 dB >30 dB | N/A N/A | >30 dB >35 dB |
| Axial Ratio (Circular) | Receive Transmit | N/A N/A | 1.4 VAR (2.95 dB) 1.3 VAR (2.28 dB) | N/A N/A |
| Feed Interface | Receive Transmit | CPR 229F CPR 137 or Type N | CPR 229F CPR 137 or Type N | WR 75 or Direct Radio Mounting |
| Maximum Radio Weight (Optional Feed Stabilizer available for higher radio weight) | | 20 Lbs. (9 Kg.) | 20 Lbs. (9 Kg.) | 12 Lbs. (5.5 Kg.) |

Mechanical

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| Reflector Material | Glass Fiber Reinforced Polyester SMC |
| Antenna Optics | Prime Focus, Offset Feed, Four-piece |
| Mast Pipe Size | 6" SCH 40 Pipe (6.63" OD) 16.83 cm. |
| Elevation Adjustment Range | 5° to 90° Continuous Fine Adjustment |
| Azimuth Adjustment Range | 360° Continuous, +/- 10° Fine Adjustment |
| Mount Type | Elevation over Azimuth |
| Shipping Specifications Shipping Weight (Total): Install (Net) Weight: | 545 lbs. (248 kg.) 365 lbs. (166 kg.) |

Environmental Performance

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|---------------------------------|-------------------------|--|
| Wind Loading | Operational Survival | 50 mph (80 km/h) 125 mph (201 km/h) |
| Temperature Range (operational) | | -40° to 140°F (-40° to 60°C) |
| Rain (operational) | | 1/2" (13mm) / hr |
| Atmospheric Conditions | | Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas |
| Relative Humidity | | 0 to 100% With Condensation |
| Solar Radiation | | 360 BTU/h/ft ² |