

# 2.4M C & Ku-Band Receive Only

## Series 1252 & 1253

### Technical Specifications

| Electrical                   | C-Band           | Ku-Band           |
|------------------------------|------------------|-------------------|
| Antenna Size                 | 2.4M (96 in.)    | 2.4M (96 in.)     |
| Operating Frequency (GHz)    | 3.625 - 4.2 GHz  | 10.95 - 12.75 GHz |
| Midband Gain ( +/- .5dB)     | 37.5 dBi         | 47.0 dBi          |
| 3 dB Beamwidth               | 2.1°             | 0.7°              |
| Antenna Noise Temperature    |                  |                   |
| 20° Elevation                | 33 K             | 29 K              |
| 30° Elevation                | 31 K             | 28 K              |
| Feed Interface               | CPR 229 F        | WR 75             |
| Cross-Pol Isolation (Linear) | >30 dB (on axis) | >30 dB (on axis)  |
| First Sidelobe (typical)     | - 20 dB          | - 20 dB           |
| VSWR                         | 1.3:1 Max.       | 1.3:1 Max.        |
| Insertion Loss               | 0.2 dB Max.      | 0.2 dB Max.       |

| Mechanical                        |   |
|-----------------------------------|---|
| Reflector Material                | Three Segment Glass Fiber Reinforced Polyester SMC    |
| Antenna Optics                    | Prime Focus, Axisymmetric                             |
| Mast Pipe Size                    | 5" SCH 40 Pipe (5.56" OD) 14.13 mm.                   |
| Elevation Adjustment Range        | 0° to 90° Continuous Fine Adjustment                  |
| Azimuth Adjustment Range          | +/- 45° Fine, 360° Continuous                         |
| f/D Ratio/Feed Support            | 0.37/Tripod Feed Support                              |
| Declination Corrected Polar Range | 90° Arc Coverage with 24" Actuator, Available         |
| Shipping Specifications (Weight)  | Az/El: 205 lbs. (93 kg.)    Polar: 245 lbs. (111 kg.) |

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

**GENERAL DYNAMICS**  
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