4.5M C or Ku-Band Receive Only

Series 1451

Technical Specifications

| Electrical | C-Band Linear | C-Band Circular | Ku-Band Linear |
|---------------------------|-----------------------|-----------------------|-----------------------|
| Antenna Size | 4.5 M (15 ft.) | 4.5 M (15 ft.) | 4.5 M (15 ft.) |
| Operating Frequency (GHz) | 3.625 - 4.2 GHz | 3.625 - 4.2 GHz | 10.95 - 12.75 GHz |
| Midband Gain (+/5dB) | 42.9 dBi | 42.6 dBi | 51.9 dBi |
| 3dB Beamwidth | 1.2° | 1.2° | 0.41° |
| Feed Interface | CPR 229 | CPR 229 | WR 75 |
| Cross-Pol Isolation | >30 dB Min. (on axis) | >17 dB Min. (on axis) | >30 dB Min. (on axis) |
| First Sidelobe (typical) | - 20 dB | - 20 dB | - 20 dB |
| VSWR | 1.3:1 Max. | 1.5:1 Max. | 1.3:1 Max. |

| Mechanical | |
|----------------------------------|---------------------------------------|
| Reflector Material | Glass Fiber Reinforced Polyester SMC |
| Antenna Optics | 8 Piece Axisymmetric, Prime Focus |
| Mast Pipe Size | 10" SCH 40 Pipe (10.75" OD) 27.30 cm. |
| Elevation Adjustment Range | 5° to 90° Continuous Fine Adjustment |
| Azimuth Adjustment Range | 360° Continuous |
| Shipping Specifications (Weight) | 950 lbs. (428 kg.) |

| Environmental Performance | | |
|---|--|--|
| Wind Loading Operational Survival | 45 mph (72 km/h) 125 mph (201 km/h) | |
| Temperature Operational | -40° to 140° F (-40° to 60° C) | |
| Relative Humidity | 0 to 100% (Condensing) | |
| Rain (operational) | 1/2' / Hr. | |
| Atmospheric Conditions | Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas | |
| Solar Radiation | 360 BTU/h/ft2 | |

GENERAL DYNAMICS

SATCOM Technologies