0.98M Ku-Band Rx/Tx Antenna

Series 1984

Technical Specifications

| Electrical | | Series 1984 Ku-Band |
|--|---------------------|--|
| Antenna Size | | 0.98 M (38.22 in.) |
| Operating Frequency (GHz) | Receive Transmit | 10.95 - 12.75 GHz 13.75 - 14.50 GHz |
| Midband Gain (+ .2dB) | Receive Transmit | 39.80 dBi 41.30 dBi |
| Antenna Noise Temperature 20° Elevation 30° Elevation | | 47 K 46 K |
| Sidelobe Envelope, Co-Pol (dBi) $100\lambda \ / \ D \leq \theta \leq 20^{\circ}$ $20^{\circ} < \theta \leq 26.3^{\circ}$ $26.3^{\circ} < \theta \leq 48^{\circ}$ $48^{\circ} < \theta$ | | 29 - 25 Logθ dBi -3.5 dBi 32 - 25 Logθ dBi -10 dBi (averaged) |
| Cross-Polarization Within B.P.E An Angle off Axis | | -30 dB Max. -25 dB Max. |
| VSWR | | 1.3:1 Max. |

| Mechanical | | |
|----------------------------|---------------------------------------|--|
| Reflector Material | Glass Fiber Reinforced Polyester SMC | |
| Antenna Optics | Prime Focus, Offset Feed | |
| Mount Type | Elevation over Azimuth | |
| Mast Pipe Size | 2.5" SCH 40 Pipe (2.88" OD) 7.32 cm | |
| Elevation Adjustment Range | 5° to 90°, Continuous Fine Adjustment | |
| Azimuth Adjustment Range | + 20° Fine, 360° Continuous | |
| Shipping Specifications | 65 lbs. (30 kg.) | |

| Environmental Perform | ance | |
|------------------------|-------------------------|--|
| Wind Loading | Operational Survival | 50 mph (80 km/h) 125 mph (201 km/h) |
| 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/ft2 |

GENERAL DYNAMICS

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