



The Astron direction finding antenna is a rugged, compact mast mounted array of VHF and UHF elements, assembled and networked to perform direction finding operations. This antenna consists of a dual array of Vivaldi elements (8 per array) operating at UHF frequencies and vertical dipole elements (8) operating at VHF frequencies. Embedded in this antenna are the electronics packages contains the VHF and UHF beam-formers, a calibration capability, and a Digital Magnetic Compass. Each array provides an Omni, Sine, and Cosine outputs that can be utilized for accurate direction finding.

VHF/UHF DIRECTION FINDING ANTENNA ARRAY

MODEL DF-203000-MR

Frequency Bands:

- VHF: 20-500 MHz
- UHF: 500 to 3000 MHz

Nominal Gain:

- VHF: -37 dBi to -7 dBi
- UHF: -16 dBi to -10 dBi

Element Types:

- VHF: Dipole Array (8 elements)
- UHF: Vivaldi Array (16 elements)

Electrical Characteristics:

- Azimuth: 360 degree
- Elevation: -5° to 30°
- RF Outputs: Omni, Sine, & Cosine
- RF Connector: D38999/20FJ8AN (6 outputs & 1 Calibration RF Input)
- Digital Compass (RS-232): Azimuth Angle & Elevation Angle
- Electrical Connector: D38999/20FB99PN (+5 VDC Power for Compass, +12 VDC for Calibration Mode Select, and Compass RS-232 Serial Communications).

General Specifications:

- Weight: 65 lbs.
- Height: 55.13 inches
- Diameter: 21.5 inches
- Op Temp: -28° C to +65° C
- Non-Op: -48° C to +71° C

Includes Radome over UHF Elements and Ruggedization Features to Prevent Damage during Handling of the Antenna

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