8-Element Direction Finding Antenna

80 – 108 MHz

VERSION: 1.2

Product Code: DF-A0274

*Image is representative only. Actual product may differ.

SPECIFICATIONS:

Electrical:	
Frequency range	80 – 108 MHz
Nominal input impedance	50 Ω
Antenna type	8-element DF interferometer
Polarisation	Vertical
Output cables	RG 400 cables (qty 8)
Connectors	TNC male
Mechanical:	
Maximum wind speed	160 km/h (without ice)
Antenna weight	TBD
Assembled height	4000 mm approx
Assembled diameter (max)	1400 mm approx

PRODUCT DESCRIPTION:

The DF-A0274 direction finding antenna covers a frequency range of 80 MHz to 108 MHz. Shipped in a compact storage and transport box, the antenna can be assembled by one person in 15 minutes, without special tools.

The antenna provides excellent sensitivity to incoming waves and impulses with angular resolution for strong signals well under 1º. Dipole elements provide good cross-polarisation rejection, and fair performance for signals arriving from up to 15º above or below the horizon.

The antenna is designed to be used in passive radar applications using the commercial FM radio band as source emitters. The array diameter is also optimized to allow digital beamforming or null-steering to be used as part of the solution.

The top flange mount provides a mounting interface for other system components or sensors.

ELECTRICAL FEATURES:

- 8-element interferometer
- Optimized for use in the commercial FM-Band
- Array suitable for digital beamforming techniques

MECHANICAL FEATURES:

- Robust construction
- Waterproof
- Quick assembly

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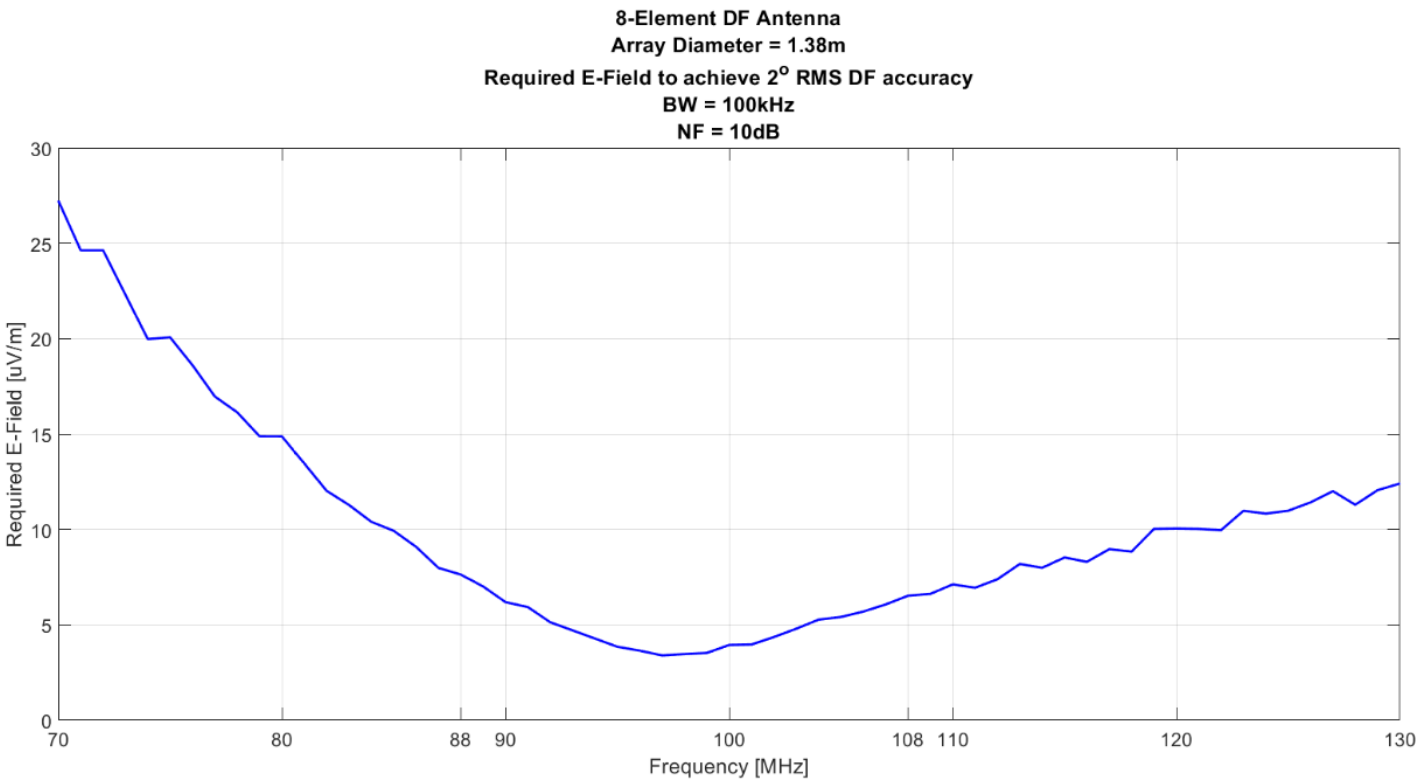
DF-A0274 Simulated Sensitivity:



Note: Above results are simulated and actual results might differ