

PRODUCT STATUS: COTS  
VERSION: 1.0

### SPECIFICATIONS:



### PRODUCT DESCRIPTION:

This tactical direction finding antenna covers a frequency range of 20 MHz to 3 GHz. The modular system allows it to be customized to suit various application requirements.

### ELECTRICAL FEATURES:

- Wideband
- 5 Element Interferometer

### MECHANICAL FEATURES:

- Robust Construction
- Waterproof
- Quick Assembly

<b>Electrical:</b>	
Frequency Bands (1;2 & 3)	Band 1: 20 – 300 MHz; Band 2: 300 – 1000 MHz; Band 3: 1000 – 3000 MHz
Nominal input impedance	50 Ω
Antenna Type	5 Element DF Interferometer
Polarisation	Vertical
Cables	RG 400 cables (Qty 15)
Connectors	TNC male
<b>Mechanical:</b>	
Cross sectional wind load area	0.75 m <sup>2</sup>
Maximum wind speed	150 km/h (without ice)
Antenna weight	44.5 kg
Assembled height	2.64 m
Assembled diameter (max)	2.67 m
Packaging Length	1.550 m
Shipping container outer dimensions	1550 mm x 600 mm x 500 mm (wooden container) 1500 mm x 600 mm x 600 mm (aluminum container)
Total weight of Tactical DF Antenna including the purpose built wooden storage container	105.9 kg
Total weight of Tactical DF Antenna including the purpose built aluminum storage container	102.5 kg
Artificial weathering (UV stability): total duration 500 h	Product exceeds requirements set out by the British Standard
Cross Sectional wind load area	0.75 m <sup>2</sup>
<b>Environmental Testing Specifications:</b>	
Vibration	MIL-STD 810E method 516.4, category 8
Mechanical Shock	MIL-STD 810E method 516.4 (40 g)
Low temperature storage	MIL-STD 810E method 502.3 (-30 °C)
High Temperature Storage	MIL-STD 810E method 501.3 (+70 °C)
Rain	MIL-STD 810E 506.3 procedure (95 % RH)
Artificial weathering (UV Stability)	BS 3900 : Part F16, method A. lamps : UV-B (313)
Temperature and Humidity	MIL-STD 810E method 507.3
Salt / fog	MIL-STD 810E 509.3 procedure I
Dust	MIL-STD 810E 510.3 procedure II

### RELATED PRODUCT(S):

DF-A0028: two-channel receiver version of this antenna

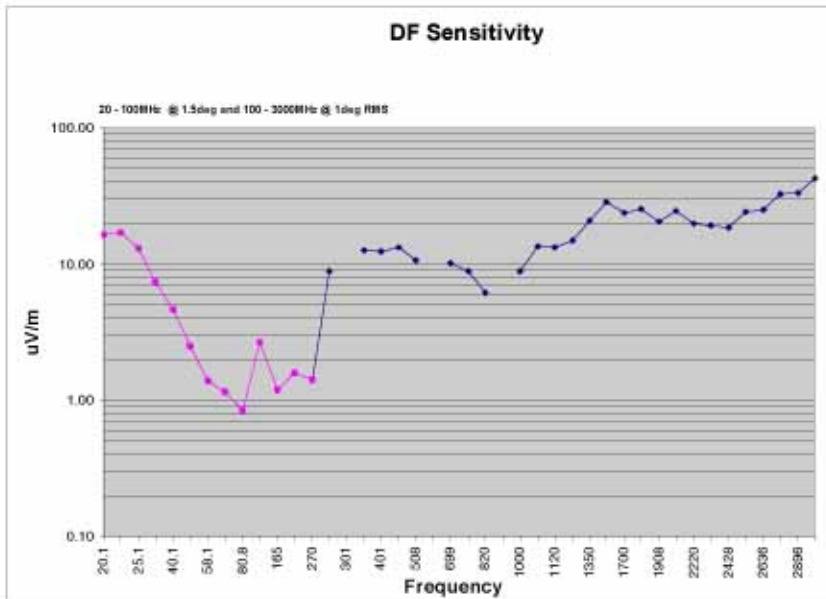
# Fixed Site Direction Finding Antenna

20 – 3000 MHz

Product Code: DF-A0027

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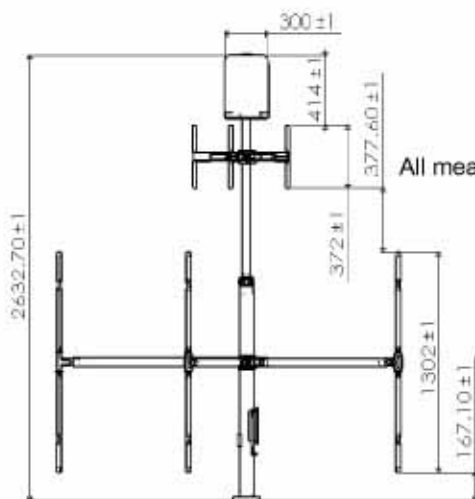
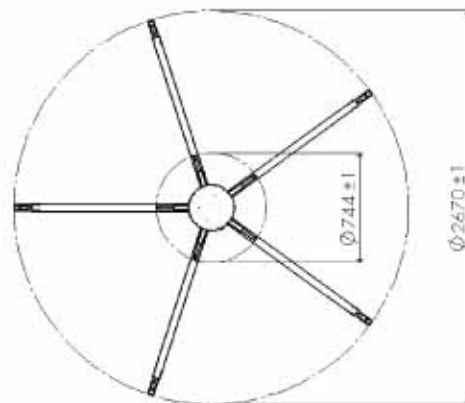
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The graph illustrates the direction finding sensitivity of a typical system measured under specific environmental conditions.

The sensitivity is measured using an IF bandwidth of 1.56 kHz and without averaging.

The graph depicts the minimum signal required to obtain a bearing fluctuation of less than 1.5° for the frequency range 20 to 80 MHz and less than 1° for the frequency range 80 – 3000 MHz



All measurements are in mm unless otherwise depicted