High-Power Wideband VHF Whip

20 – 100 MHz

Product Code: MONO-A0083

SPECIFICATIONS:

Electrical:	
Frequency range	20 – 100 MHz
VSWR:	< 2.5:1 See Figure 1
Feed power handling	200 W
Gain	> -15 dBi. See Figure 2
Elevation 3 dB beamwidth	60º (± 10º)
Nominal input impedance	50 Ω
Polarisation	Vertical
Connector	N-type female
Groundplane requirements	Groundplane dependent, Minimum 2000 mm x 2000 mm recommended

Mechanical:	
Length	1600 mm
Base diameter	135 mm
Weight	< 4 kg
Mounting base	NATO flange 4 and 6 holes

Environmental: designed to meet the following specifications	
Wind loading	180 km/h
Temperature (operational)	- 30 ºC to + 65 ºC (no icing)
Shock	20 G at 10 msec
Thermal shock	- 20 ºC to +70 ºC: 10 cycles
Water ingress rating	IP65

PRODUCT DESCRIPTION:

The antenna has an excellent radiation pattern and a consistently low VSWR across the entire frequency band. It can handle full rated power continuously at all frequencies, making it ideal for all 100% duty-cycle applications. The insulated radiator is robust, hard-wearing and impervious to fuel, oil and hydraulic fluid.
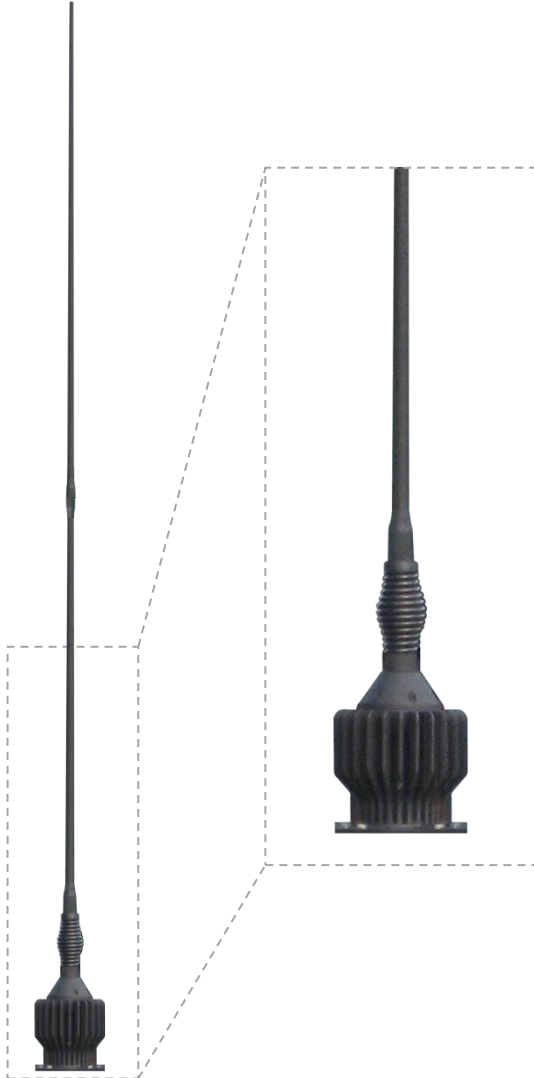
FEATURES:

- Wide frequency coverage (20 to 100 MHz)
- High-power, 200 W at 100% duty cycle
- Excellent VSWR
- Omni-directional azimuth pattern
- Rugged and hard-wearing
- Suited to low-profile applications

APPLICATIONS:

- Improvised explosive device (IED) suppression
- Communications interception

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GAIN THE ADVANTAGE

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VSWR and Gain graphs*:
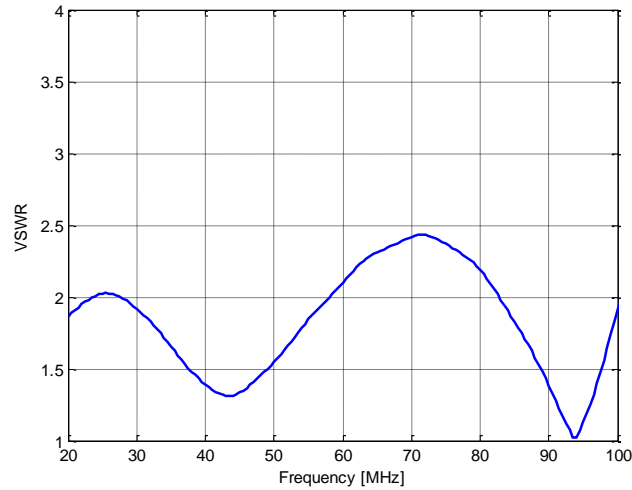
Figure 1: VSWR
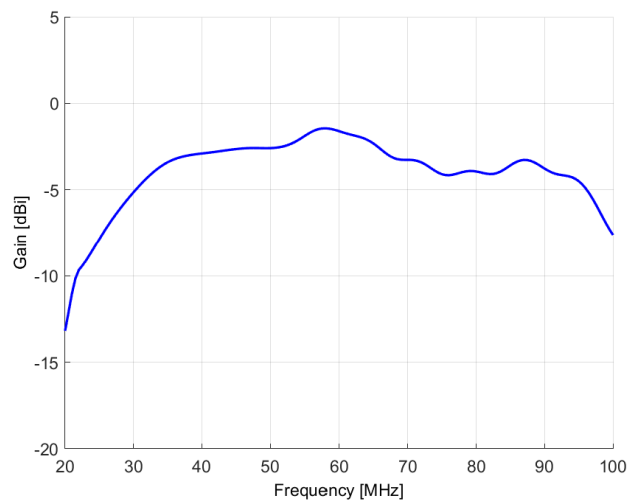
Figure 2: gain

* Measured on a 5000 mm x 5000 mm groundplane.
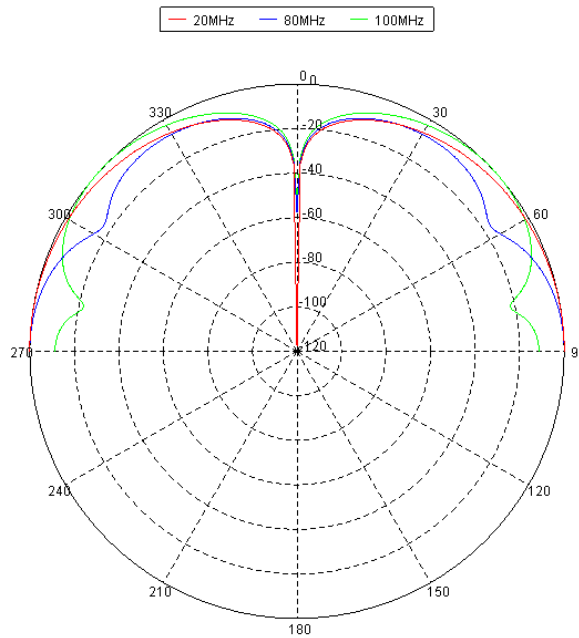
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Elevation:

Figure 3: elevation pattern

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