

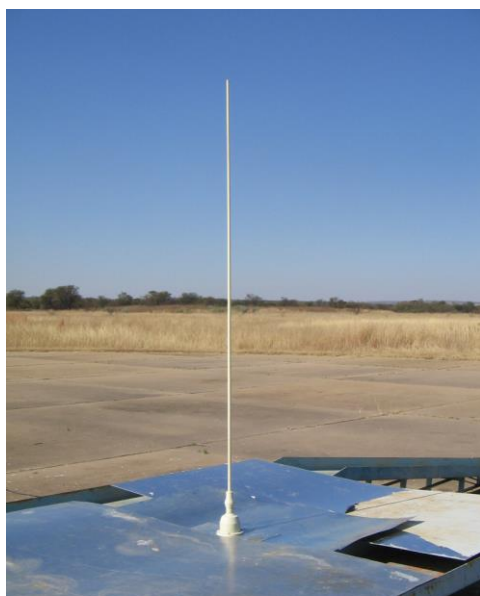
# Vehicle Whip Antenna

30 – 88 MHz

Product Code: MONO-A0033

VERSION: 2.5

## SPECIFICATIONS:



<b>Product codes:</b>	
MONO-A0033	Antenna with interface, interconnecting cable, power cable.
MONO-A0033-01	Antenna without interface or cables
MONO-A0033-02	Interface with power cable
MONO-A0033-03	Interconnecting cables
<b>Electrical:</b>	
Frequency range	30 – 88 MHz
VSWR	< 2.5:1
Nominal input impedance	50 Ω
Feed power handling	50 W
Gain (max)	+1.5 dBi
Gain (min over the band)	-1.5 dBi
E-plane 3 dB beamwidth	20° - 40°
H-plane 3 dB beamwidth	360°
Polarisation	Vertical
<b>Mechanical:</b>	
Base diameter	125 mm
Total height	2100 mm
Weight (antenna)	1.9 kg
Mounting method	NATO flange 6 holes
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	160 km/h
Temperature (operational)	-30 °C to +70 °C
Shock	40 G for 10 msec
Thermal shock	-20 °C to +70 °C: 10 cycles

## PRODUCT FEATURES:

- Low VSWR across the band. The VSWR is application programmable, but typically less than 2.5:1 at all frequencies
- High-speed tuning
- Excellent efficiency
- No pattern break-up across the band

## APPLICATIONS:

- Communications using frequency-agile transceivers
- Mobile interception
- Force protection and IED suppression

## PRODUCT DESCRIPTION:

This vehicular antenna is an automatically tuned whip antenna designed for use with frequency-agile transceivers, high-power and force protection (RCIED suppression) systems.

The system consists of a vehicle-mounted whip antenna that has a high-speed antenna matching unit integrated into its base. This is then connected to a separate interface unit that converts the frequency information from a transceiver or high-power system into the required matching network configurations. The interface has full test (BIT) functionality already built into it.

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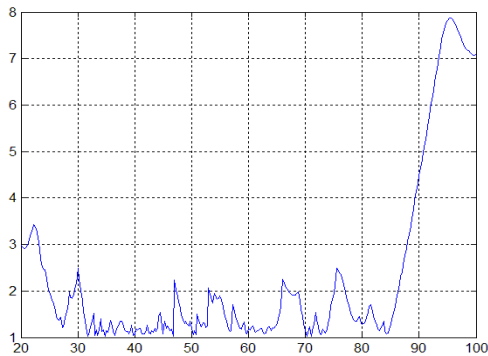
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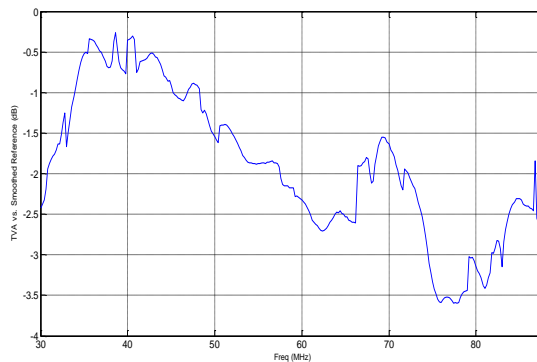
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## VSWR AND GAIN GRAPHS:

VSWR (typical):

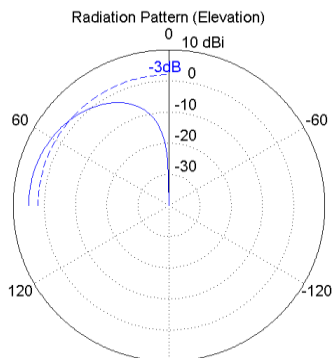


Gain (ref. ¼ wave monopole):



## Radiation patterns:

E-plane (30 MHz):



E-plane (88 MHz):

