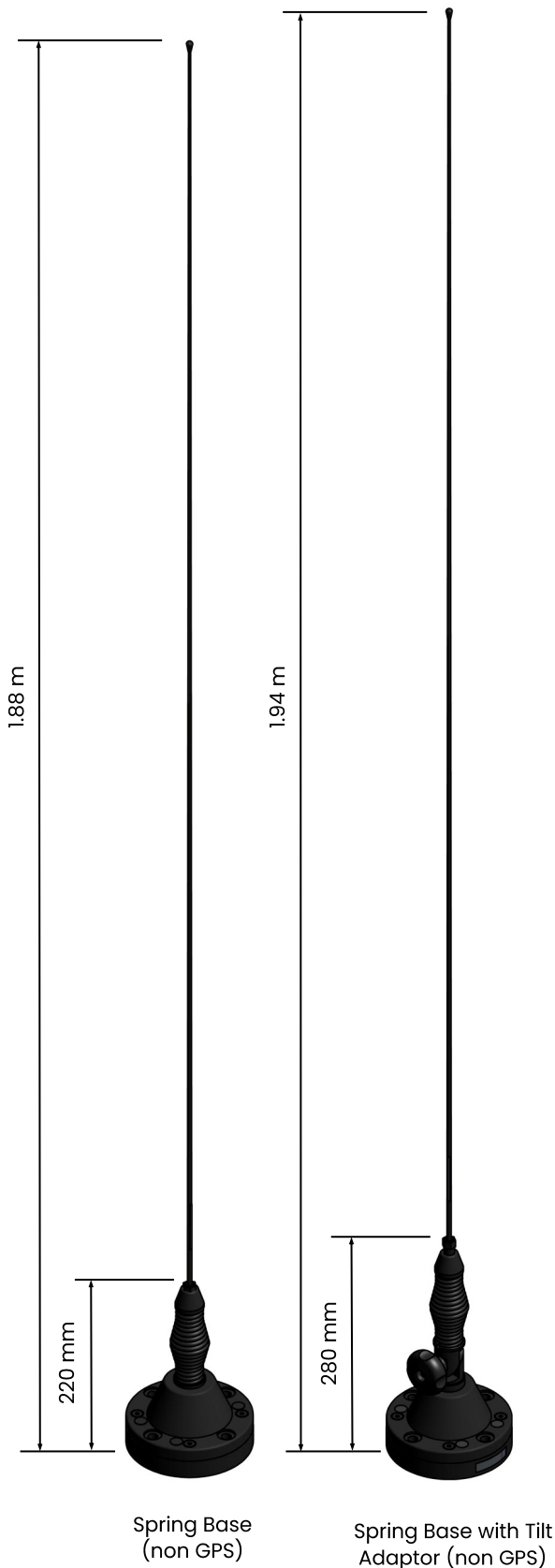


# VHF3088LP

VHF vehicle whip, monopole, low profile, 1.8 m, 30–88 MHz

## Tactical Antennas: Vehicle Mount



### Features

- Frequency 30–88 MHz
- Low profile, stainless steel whip
- Standard NATO pattern base options
- Tilt base option
- Designed for use on all modern in-service military platforms, including armoured or soft skin, metal chassis or composite, wheeled or tracked
- No tuning required
- EMP protection on the 50W side <sup>Note 1</sup>
- High voltage protection option
- L1 and L1/L2 GPS Options

Note 1. Protected with a gas discharge tube that holds 400 shots @ 500 A and 10 shots @ 20,000 A.

### Electrical Specifications

<b>Frequency Range</b>	30–88 MHz
<b>VSWR</b>	< 3.5:1
<b>Nominal Impedance</b>	50 Ω
<b>Power Rating</b>	100 W
<b>Gain</b>	See gain curve
<b>Radiation Pattern</b>	Azimuth: Omnidirectional Elevation: See overleaf
<b>Polarisation</b>	Vertical
<b>Connector</b>	BNC female, others on request

### Mechanical Specifications

<b>Design</b>	End fed whip. Metal parts are blackened stainless steel.
<b>Length, Mounted</b>	1.88 m (Spring base) 1.94 m (Spring base with tilt)
<b>Weight</b>	2.0 kg (4-hole spring base)
<b>Wind Rating</b>	55 m/s = 201 kph
<b>Finish</b>	Epoxy powder lacquer and class 3 blackened
<b>Temperature Range</b>	- 55°C to + 55°C

## GPS Electrical Specifications

Configuration	L1 GPS	L1/L2 GPS
Frequency Band	1575.42 ± 10 MHz	L1 1575.42 ± 10 MHz L2 1227.60 ± 10 MHz
Supply Voltage	2.7–5.5 V	2.7–5.5 V
Pre-amplifier	26.5 dB @ 5 V	26.5 dB @ 5 V
Noise Figure	2.5 dB	2.5 dB
Supply Current	< 40 mA	< 60 mA
Polarisation	RHCP	RHCP
Connector	SMA female	SMA female

## Antenna Base Options

Antenna bases are available to suit the user vehicle or shelter installation. Bases can be configured with the following options:-

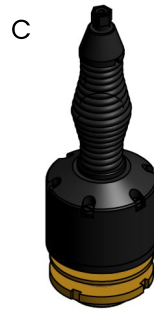
1. L1 GPS
2. L1/L2 GPS
3. High voltage protection is available for selected bases
4. 6-hole pattern bases available (A, B, E, F)



A  
NATO 4-hole  
Spring Base  
4 x M10 or 3/8" Bolts  
on 114 mm PCD  
Base diameter 140 mm  
Base height 220 mm



B  
NATO 4-hole GPS  
Spring Base  
4 x M10 or 3/8" Bolts  
on 114 mm PCD  
Base diameter 140 mm  
Base height 245 mm



C  
NATO 50 mm Threaded  
Spring Base  
Base diameter 80 mm  
Base height 200 mm



D  
NATO 50 mm Threaded GPS  
Spring Base  
Base diameter 95 mm  
Base height 200 mm



E  
NATO 4-hole  
Tilt Spring Base  
4 x M10 or 3/8" Bolts  
on 114 mm PCD  
Base diameter 140 mm  
Base height 280 mm



F  
NATO 4-hole GPS  
Tilt Spring Base  
4 x M10 or 3/8" Bolts  
on 114 mm PCD  
Base diameter 140 mm  
Base height 305 mm



G  
NATO 50 mm Threaded  
Tilt Spring Base  
Base diameter 80 mm  
Base height 264 mm



H  
NATO 50 mm Threaded GPS  
Tilt Spring Base  
Base diameter 95 mm  
Base height 271 mm

# Antenna Whip Options

## Whip - Standard

The standard whip has a soft top cap to provide some eye protection



A

## Whip - Eye Protection

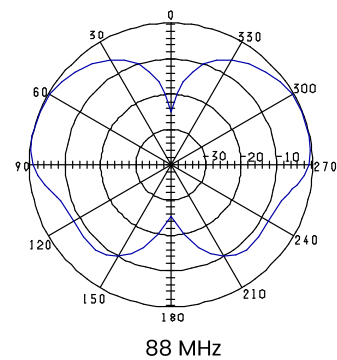
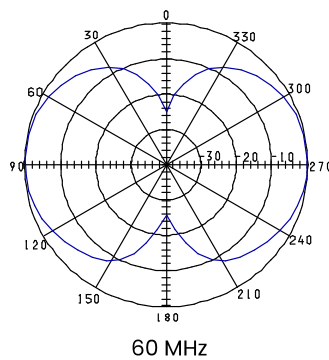
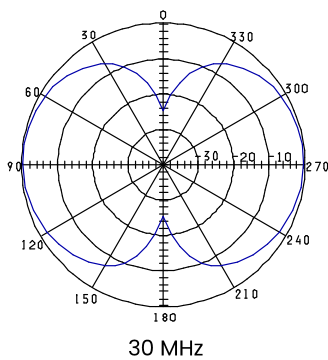
The eye protection whip has a top loop for eye protection which can also be used to attach a tie-down (see optional items below).



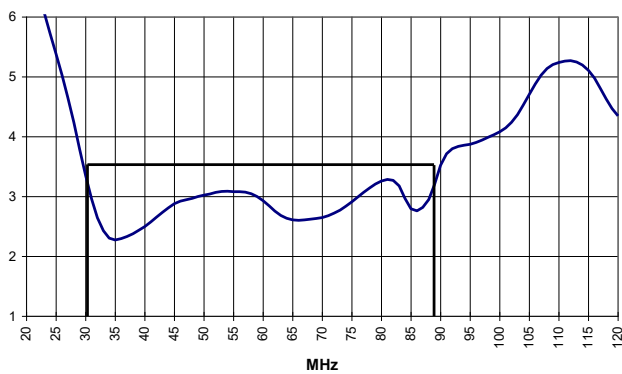
B

Optional Items	Description
Whip bag	Used to store the low profile steel whip during transportation
Tie-down kit	Used to tie down the antenna whip (used with whip type B)

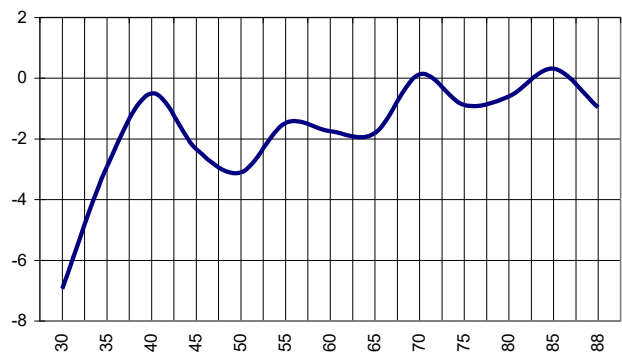
## Radiation Diagram, Elevation



## VSWR (Typical)



## Gain, relative 1/4 whip, centre ground plane



April 2020

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The information contained herein is for reference only and does not constitute a warranty of performance

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