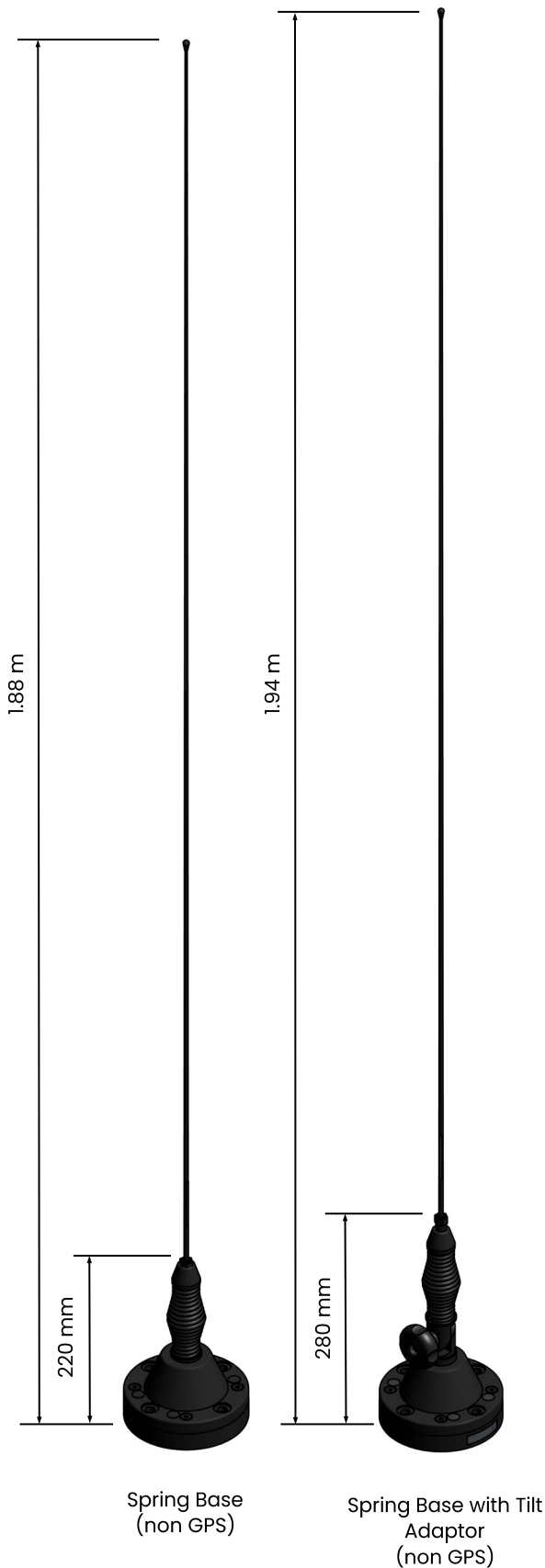


VHF30108LP

VHF vehicle whip, monopole, low profile, 1.8 m, 30-108 MHz

Tactical Antennas: Vehicle Mount



Features

- Frequency 30-108 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
- Optional EMP protection on the 50W side ^{Note 1}
- Optional high voltage protection
- Optional L1 and L1/L2 GPS

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

Electrical Specifications

Frequency Range	30-108 MHz
VSWR	< 3.5:1
Nominal Impedance	50 Ω
Power Rating	100 W
Gain	See gain curve
Radiation Pattern	Azimuth: Omnidirectional Elevation: See overleaf
Polarisation	Vertical
Connector	BNC female, others on request

Mechanical Specifications

Design	End fed whip. Metal parts are blackened stainless steel.
Length, Mounted	1.88 m (Spring base) 1.94 m (Spring base with tilt)
Weight	2.0 kg (4-hole spring base)
Wind Rating	55 m/s = 201 kph
Finish	Epoxy powder lacquer and class 3 blackened.
Temperature Range	- 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. EMP protection is available for selected bases
4. High voltage protection is available for selected bases
5. 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 50mm 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 260 mm



H
NATO 50 mm Threaded GPS
Tilt Spring Base
Base diameter 95 mm
Base height 260 mm

Antenna Whip Options

Whip - Standard

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



A

Whip - Eye Protection

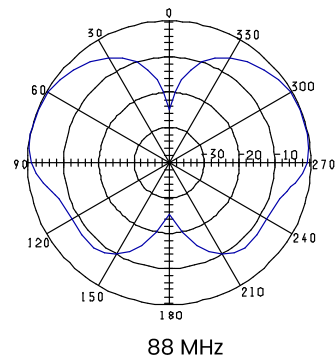
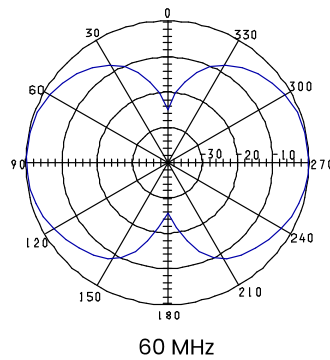
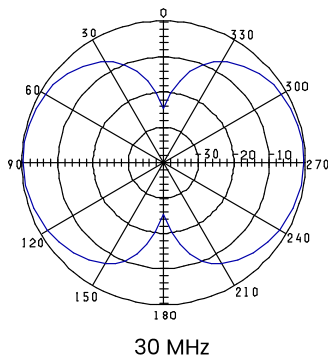
The eye protection whip has a top loop for eye protection which can also be used to attach a tie-down (see optional items below).



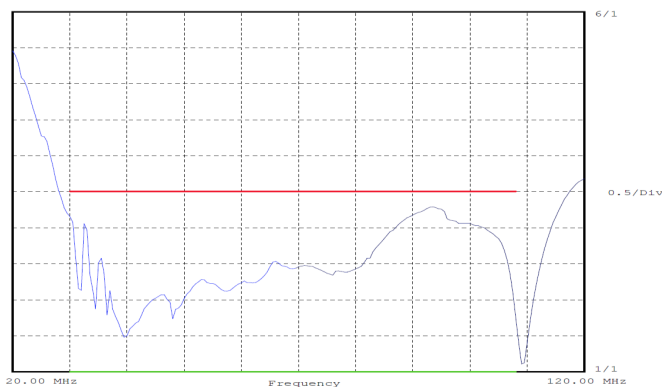
B

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)

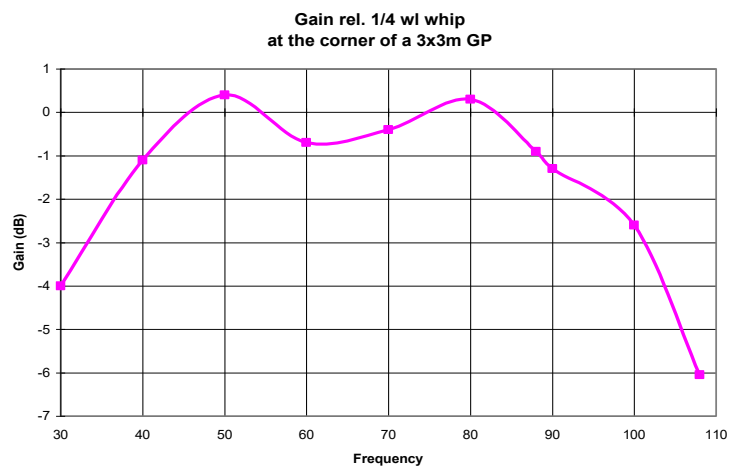
Radiation Diagram, Elevation



VSWR (typical)



Gain, relative 1/4 whip, centre ground plane



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All specifications are subject to change without notice
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