

### 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 50Ω side <sup>Note 1</sup>
- Optional high voltage protection
- Optional L1 and L1/L2 GPS

### Electrical specifications:

Frequency range	30 - 108 MHz
VSWR	< 3.5:1
Nominal impedance	50 ohm
Power rating	100 W
Gain	See gain curve
Radiation pattern	Azimuth: Omnidirectional Elevation: See overleaf
Polarization	Vertical
Connector	BNC female, others on request

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

### 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 = 125 mph
Finish	Epoxy powder lacquer and class 3 blackened.
Temperature range	-55 °C, +55 °C; -67 °F, +131 °F

## GPS Electrical Specification

Configuration	L1 GPS	L1/L2 GPS
Frequency Band	1575.42 ± 10 MHz	L1 1575.42 ± 10 MHz L2 1227.60 ± 10 MHz
Supply Voltage	2.7-5.5V	2.7-5.5V
Pre-amplifier	26.5 dB @ 5V	26.5 dB @ 5V
Noise Figure	2.5dB	2.5dB
Supply Current	< 40mA	< 60mA
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 114mm PCD  
Base diameter 140mm  
Base height 220mm



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



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



**D**  
NATO 50mm Threaded  
Spring Base  
GPS and EMP options  
Base diameter 95mm  
Base height 200mm



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



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



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



**H**  
NATO 50mm Threaded  
Tilt Spring Base  
GPS and EMP options  
Base diameter 95mm  
Base height 271mm

# Antenna Whip Options

## Whip - Standard

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

A



## Whip - Eye Protection

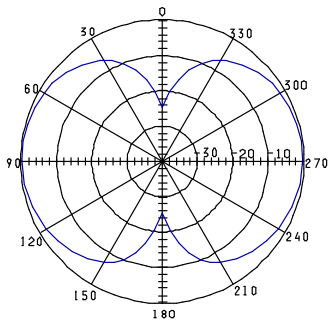
The eye protection whip has a top loop for eye protection which can also be used to attach a tie-down (see optional items below).

B

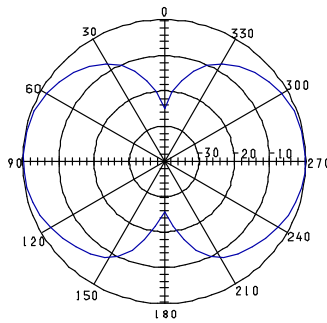


Optional Items	Description
Whip bag	Used to store the low profile steel whip during transportation
Tie-down kit	Used to tie down the antenna whip (used with whip type B)

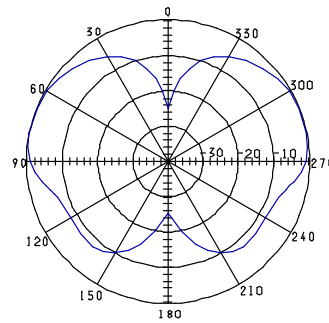
## Radiation Diagram, Elevation:



30MHz

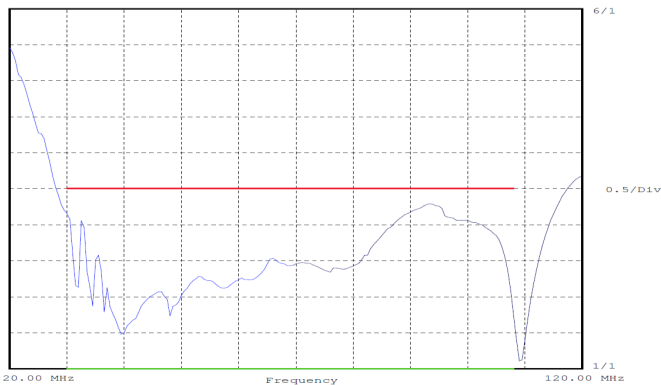


60MHz



88MHz

## VSWR (typical)



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

