

## VHF30600CEF

VHF/UHF sectional vehicle whip, monopole/dipole, 2.65 m, 30–600 MHz

**Tactical Antennas: Vehicle Mount**



### Application

The VHF30600CEF is an ultra wideband vehicle antenna designed for use on all modern in-service military platforms, including armoured or soft skin, metal chassis or composite, wheeled or tracked.

The novel design gives it an excellent gain and radiation pattern across the whole frequency range. The antenna needs no adjustment for different frequencies as all the tuning elements are within the whip.

Bases are available to suit different mounting configurations with optional L1 and L1/L2 GPS.

### Electrical Specifications (Antenna)

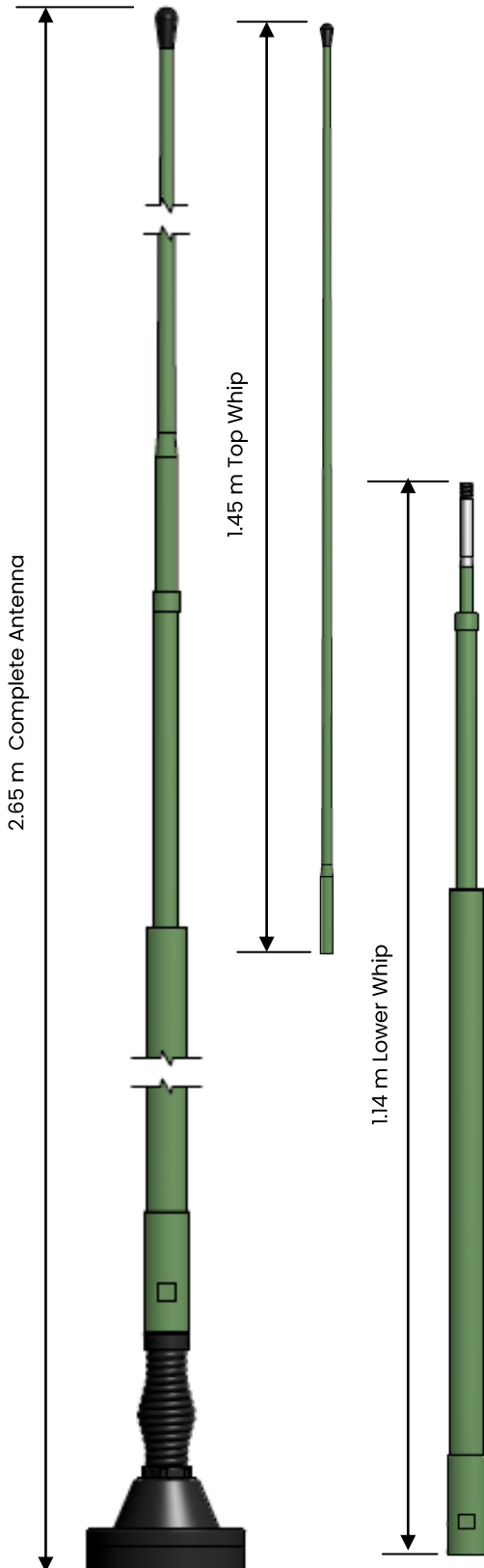
<b>Frequency Range</b>	30 – 600 MHz
<b>VSWR</b>	< 3.5, see diagram
<b>Nominal Impedance</b>	50 Ω
<b>Power Rating</b>	100 W
<b>Gain</b>	see diagram overleaf
<b>Radiation Pattern</b>	Azimuth: Omnidirectional
<b>Polarisation</b>	Vertical
<b>Connector</b>	BNC female, others on request
<b>EMP</b>	DC grounded on 50 Ω side (extra EMP protection available as option)

### Mechanical Specifications

<b>Design</b>	Centre fed dipole for UHF. End-fed whip for VHF <sup>1</sup> . Radiating element completely enclosed in epoxy/fibreglass laminate. Metal parts are plated brass and stainless steel.
<b>Length</b>	Total: 2.65 m Lower Whip: 1.14 m Upper Whip: 1.45 m Base: 0.24 m
<b>Weight</b>	Total: 3.75 kg* Lower Whip: 1.2 kg Upper Whip: 0.3 kg Base: 2.25 kg*
<b>Wind Rating</b>	55 m/s = 201 km/h
<b>Finish</b>	Polyurethane lacquer
<b>Colour</b>	Customer Specified
<b>Installation</b>	See base option table
<b>Temperature Range</b>	- 55°C to + 71°C

\* Weight with standard NATO 4 hole base. Base options specified overleaf.

<sup>1</sup> Ground-plane is required



## Base Options



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



**B**  
NATO 6-hole  
6 x M6 or 1/4" Bolts  
on 111 mm PCD  
Base diameter 140 mm



**C**  
NATO  
50mm Thread  
Base diameter 95 mm



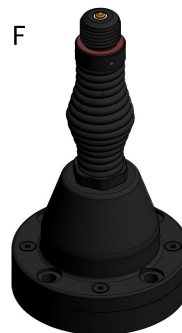
**D**  
Mast Mount Bracket  
Rigid (no spring)  
24 mm Spigot  
50 mm Spigot  
Customer Specified



**E**  
NATO 4-hole  
Rigid (no spring)  
4 x M10 or 3/8" Bolts  
on 114 mm PCD  
Base diameter 140 mm

## GPS Electrical Specifications

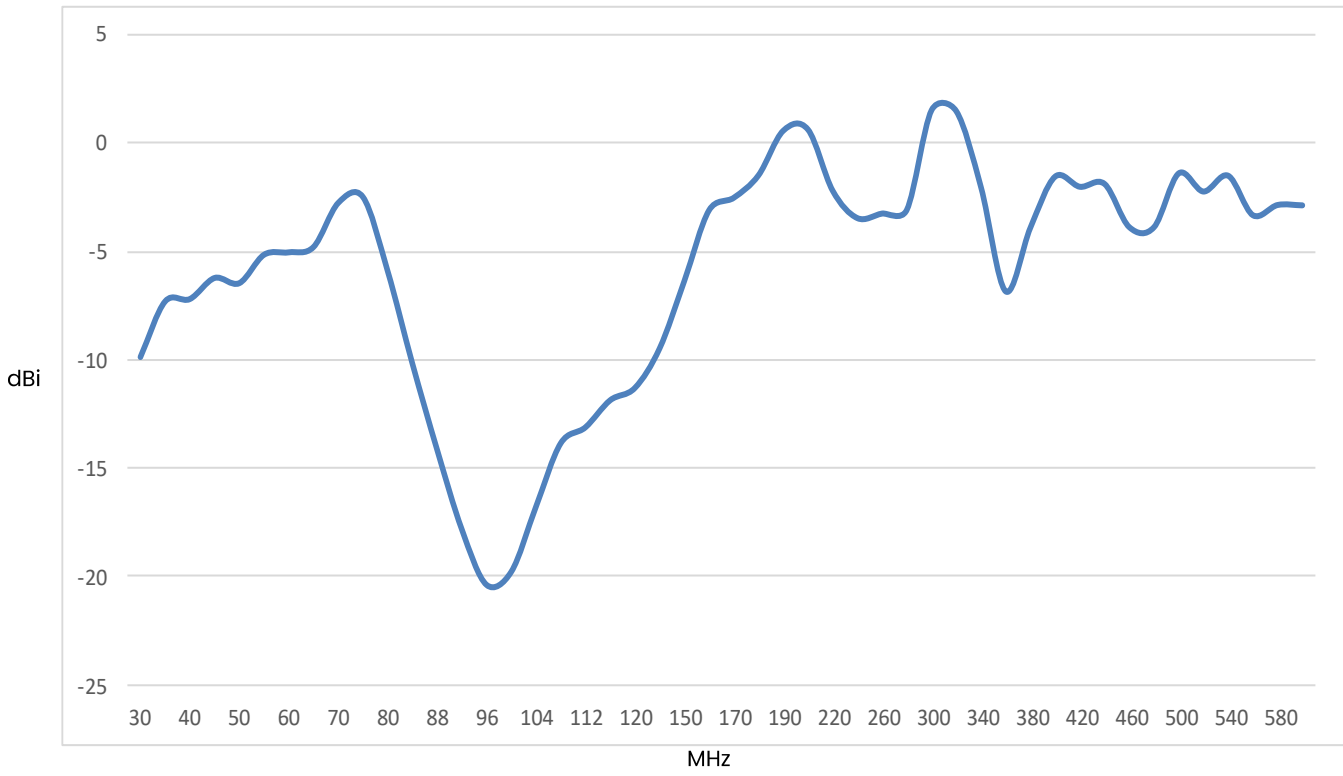
	L1 GPS	L2 GPS
<b>Frequency Band</b>	1575 MHz	1227 MHz
<b>Supply Voltage</b>	2.7-5.5V	2.7-5.5V
<b>Pre-amplifier</b>	25 dB @ 5V	25 dB @ 5V
<b>Noise Figure</b>	2.5dB	2.5dB
<b>Supply Current</b>	< 60mA	< 60mA
<b>Polarisation</b>	RHCP	RHCP
<b>Connector</b>	SMA female	SMA female



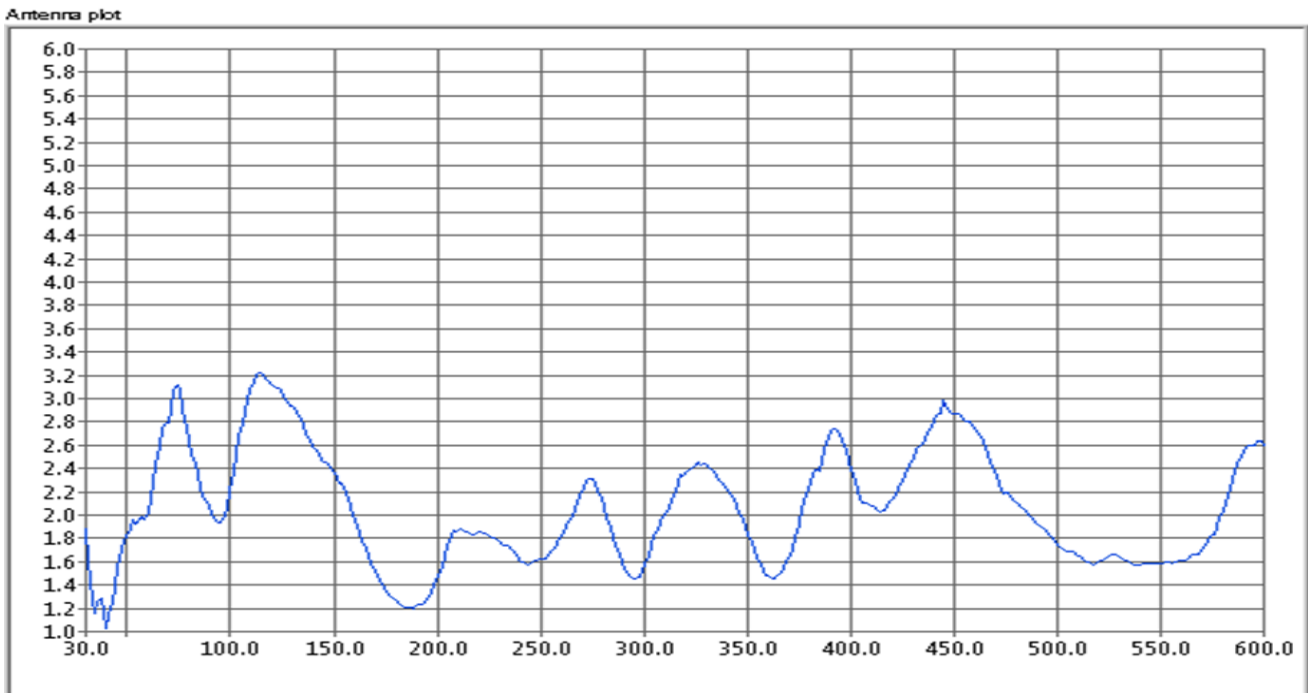
**F**  
NATO 4-hole Spring GPS Base  
L1 and L1/L2 GPS available  
4 x M10 or 3/8" Bolts  
on 114 mm PCD  
Base diameter 140 mm

## Antenna Options

Product	Description
Whip Bag	Protective carrying bag for upper and lower whip sections



Antenna installed in the centre of a 3 x 3m ground plane



**Typical VSWR Curve**

Antenna installed on the corner of a 3 x 3m ground plane

---

All specifications are subject to change without notice  
The information contained herein is for reference only and does not constitute a warranty of performance

Partnered Supplier



[sales@eylex.com.au](mailto:sales@eylex.com.au)  
[www.eylex.com.au](http://www.eylex.com.au)

