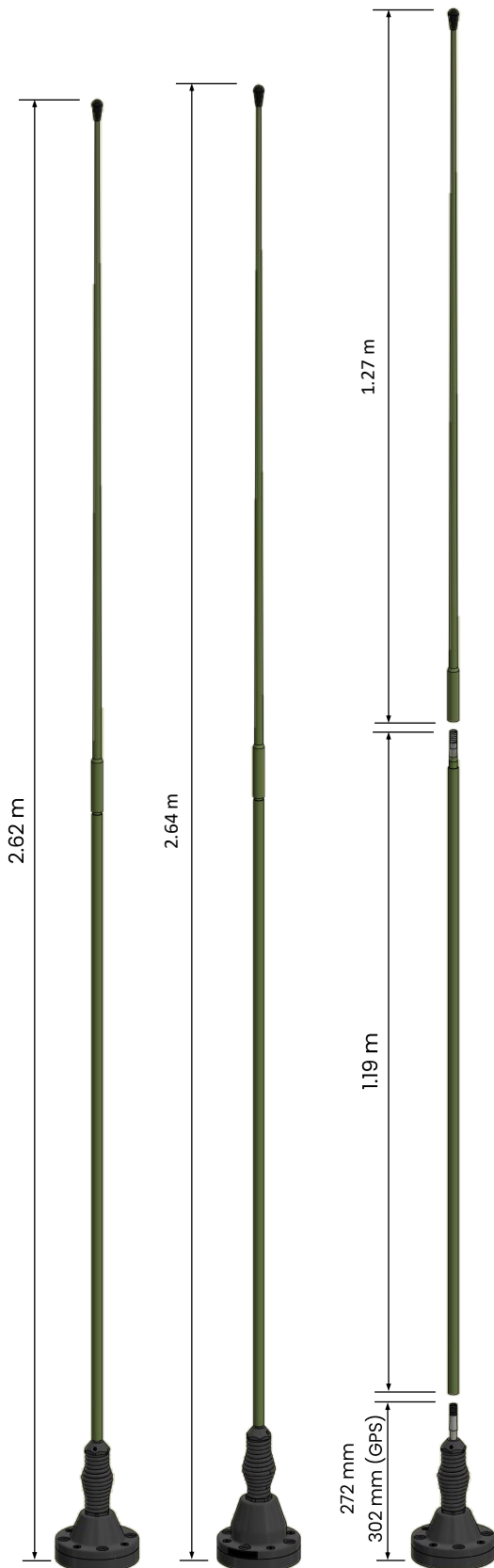


## VHF30108EF Series

VHF sectional vehicle whip, monopole, 2.6 m, 30–108 MHz

**Tactical Antennas: Vehicle Mount**



VHF30108EF VHF30108EF-GPS

### Application

The VHF30108EF is a VHF vehicle antenna operating over the 30–108 MHz frequency band. It has been designed for use on all modern in-service military platforms, including armoured or soft skin, metal chassis or composite, wheeled or tracked. The antenna is a monopole design so requires a ground plane to operate.

Bases are available for vehicle, shelter and mast mounting with optional L1 and L1/L2 GPS

### Electrical Specifications

<b>Frequency Range</b>	30–108 MHz
<b>VSWR</b>	see diagram, overleaf
<b>Nominal Impedance</b>	50 $\Omega$
<b>Power Rating</b>	100 W CW
<b>Gain</b>	see diagram, overleaf
<b>Radiation Pattern</b>	Azimuth: Omnidirectional
<b>Polarisation</b>	Vertical
<b>Connector</b>	VHF: BNC female (others on request) GPS (option): SMA female

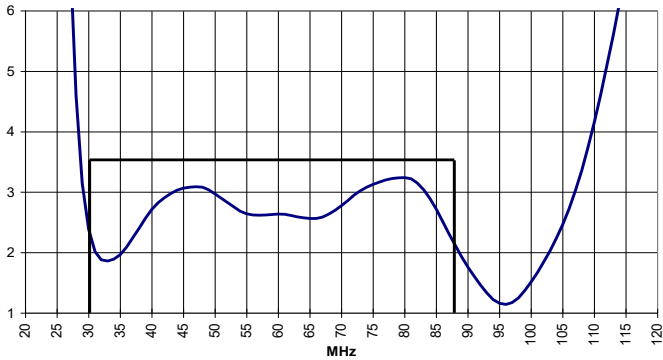
### Mechanical Specifications

<b>Design</b>	End fed whip. Radiating elements completely enclosed in epoxy/fibreglass laminate. Metal parts are brass and stainless steel.
<b>Length, Mounted</b>	VHF30108EF: 2.62 m VHF30108EF-GPS: 2.64 m
<b>Weight</b>	2.7 kg
<b>Wind Rating</b>	55 m/s = 201 km/h
<b>Finish</b>	Polyurethane lacquer, olive drab Other colours on request
<b>Temperature Range</b>	- 55°C to + 55°C

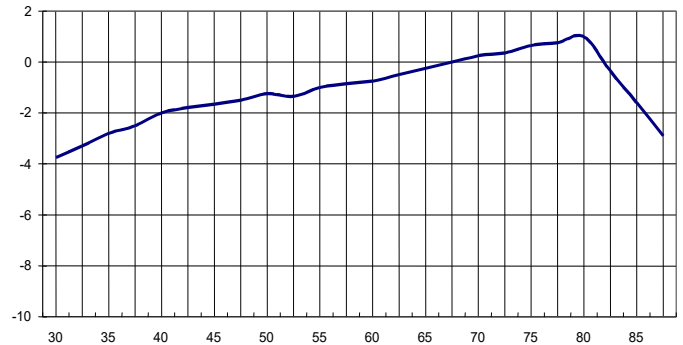
## GPS Electrical Specifications

	L1 GPS	L1/L2 GPS
<b>Frequency Band</b>	1575.42 ± 10 MHz	1575.42 ± 10 MHz 1227.60 ± 10 MHz
<b>Power Supply</b>	2.7-5.5 V @ <60 mA, + centre	2.7-5.5 V @ <60 mA, + centre
<b>Amplifier Gain</b>	25 dB, GPS	25 dB, GPS
<b>Pre-amplifier</b>	26.5 dB @ 5 V	26.5 dB @ 5 V
<b>Noise Figure</b>	2.5 dB	2.5 dB
<b>Polarisation</b>	RHCP	RHCP

### VSWR



### GAIN, relative ¼ whip

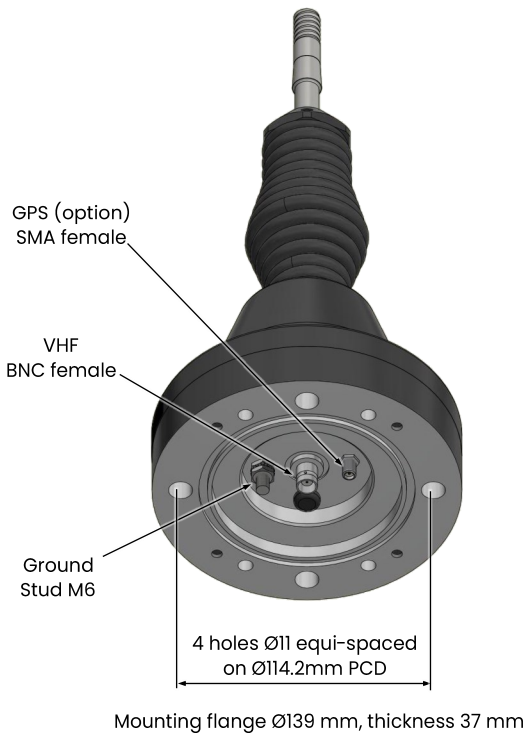


## Base Options

Vehicle/Shelter Base  
NATO 4-hole  
Height 272 mm, 302 mm (GPS)

Vehicle/Shelter  
NATO 50 mm  
Height 258 mm

Elevated Mast Base  
Height 219 mm



Shown with 24 mm mounting spigot.  
Other spigot/sockets sizes available.  
Antenna monopole design requires 3 x 3 m conductive ground-plane radials.

February 2021

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  
www.eylex.com.au

