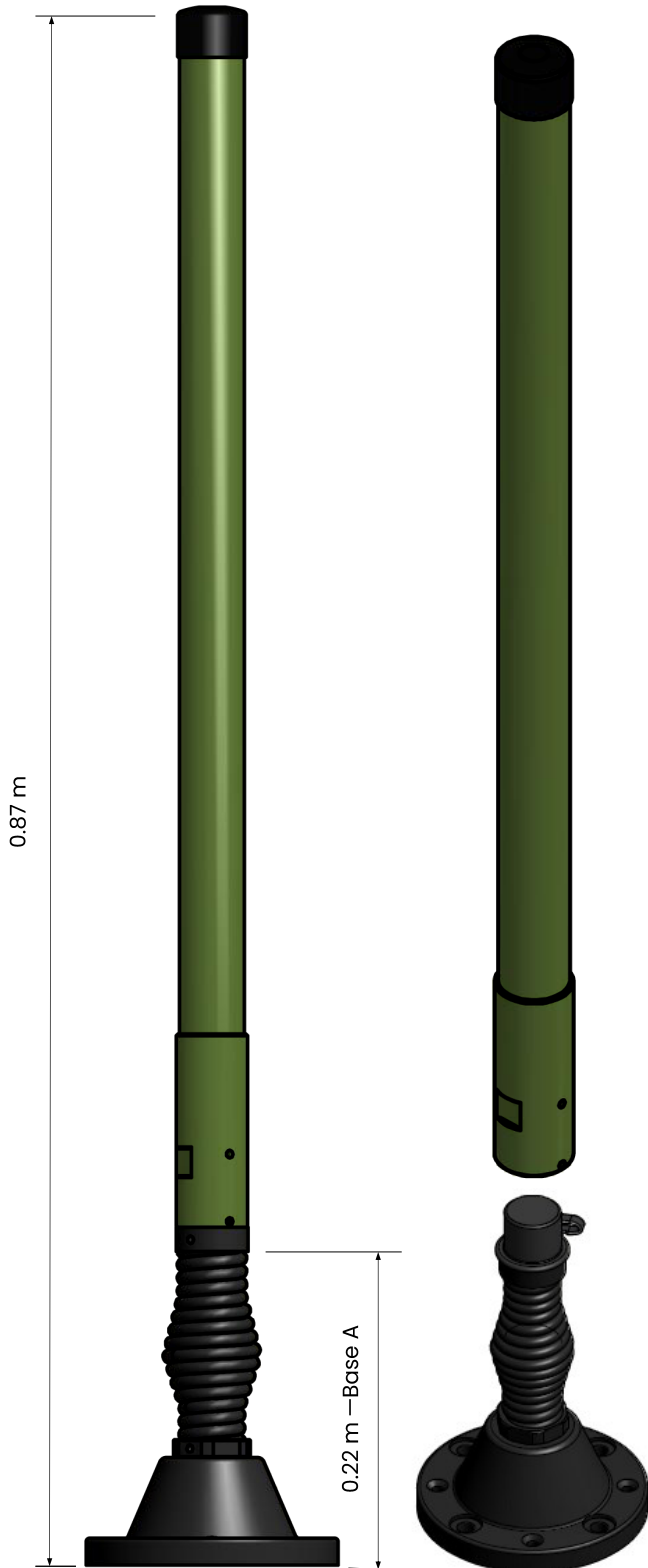


UHF225512VM/HG

UHF vehicle whip, dipole, 0.87 m, 225–512 MHz

Tactical Antennas: Vehicle Mount



Standard NATO 4 hole vehicle base shown (A)

Application

The UHF225512VM/HG is a UHF 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 antenna is a dipole design so does not require a ground plane to operate.

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

Electrical Specifications

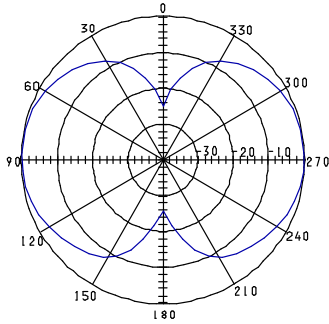
Frequency Range	225–512 MHz
VSWR	< 3.5:1
Nominal Impedance	50 Ω
Power Rating	100 W
Gain	0.5 ... 2 dBi
Radiation Pattern	Azimuth: Omnidirectional Elevation: See diagram
Polarisation	Vertical
Connector	BNC female, others on request

Mechanical Specifications

Design	Centre fed dipole. Radiating elements completely enclosed in epoxy/fibreglass laminate. Metal parts are plated brass and stainless steel.
Length	Total: 0.87 m Element: 0.68 m Base: 0.22 m*
Weight	Whip: 1.1 kg Base: 2.85 kg
Wind Rating	55 m/s = 201 km/h
Finish	Polyurethane lacquer
Colour	Customer Specified
Installation	See base option table
Temperature Range	- 55°C to + 71°C

* Weight with standard NATO 4 hole vehicle base (A). Base options specified overleaf.

Typical Radiation Diagram, Elevation



300 MHz

GPS Electrical Specifications (Option)

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

Base Options

Below are a small selection of bases available for the UHF225512VM/HG. Spring and rigid bases are available for vehicle, shelter, mast and pole mounting. Please contact Eylex at sales@eylex.com.au with your specific requirement.



A
NATO 4-hole Spring
GPS option

4 x M10 or 3/8" Bolts
on 114 mm PCD

Base diameter 140 mm

Standard base height 215 mm



B
NATO 4-hole Rigid
GPS option

4 x M10 or 3/8" Bolts
on 114 mm PCD

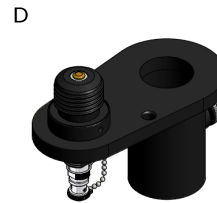
Base diameter 140 mm

Standard base height 100 mm



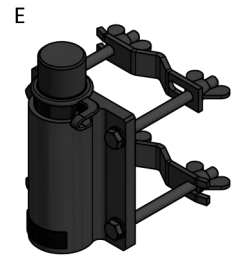
C
NATO
50 mm Thread
GPS option

Base diameter 95 mm



D
Mast Mount Bracket

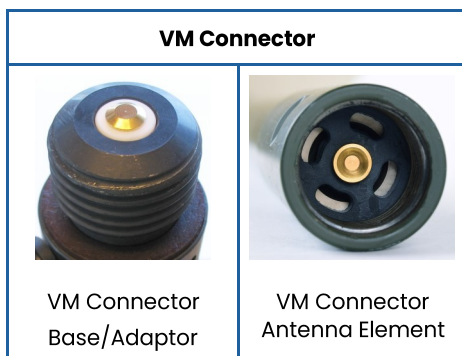
24 mm Spigot
40 mm Spigot
50 mm Spigot
40 mm Socket
50 mm Socket
Customer Specified



E
Mast Mount Bracket
Tube clamp to suit poles
up to Ø65 mm

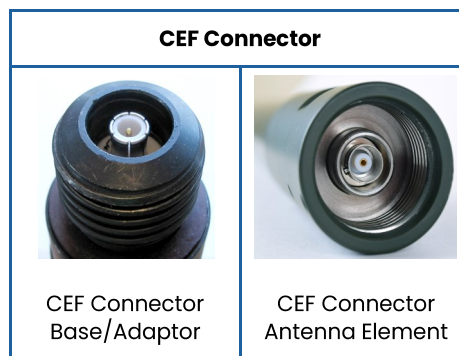
Antenna element to base connector

The UHF225512VM/HG can be supplied with either a Comrod VM or CEF type connection between the antenna element and base/mounting. The connection shares the same size mounting thread but has a different internal RF contact. Both of these connectors are proprietary to Comrod.



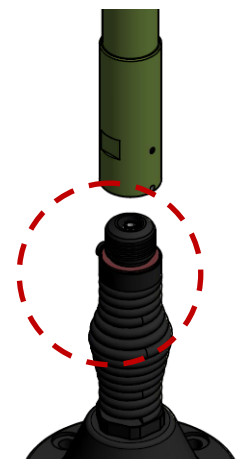
VM Connector
Base/Adaptor

VM Connector
Antenna Element



CEF Connector
Base/Adaptor

CEF Connector
Antenna Element



Antenna to base
connection

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

