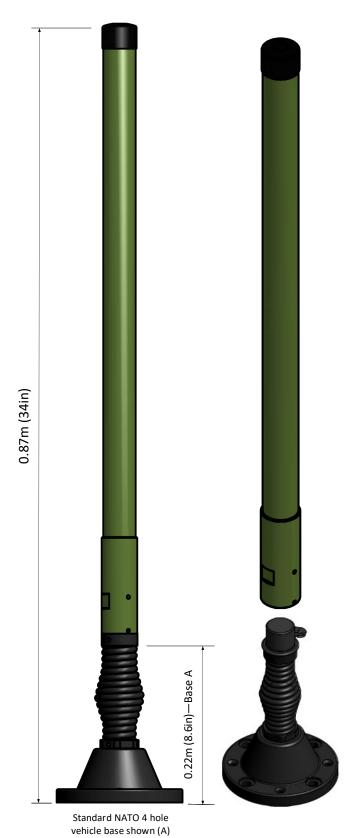


UHF225512VM/HG Series

UHF Dipole Vehicle Antenna Base options including L1 & L1/L2 GPS



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 & L1/L2 GPS.

Electrical Specification

Frequency range	225 - 512 MHz	
VSWR	<3.5:1	
Nominal impedance	50 ohm	
Power rating	100W	
Gain	0.5 2 dBi	
Radiation pattern	Azimuth: Omnidirectional	
	Elevation: See diagram	
Polarisation	Vertical	
Connector	BNC Female, others on request	

Mechanical specification

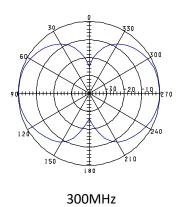
Design	Centre fed dipole. Radiating elements completely enclosed in epoxy/fibreglass laminate. Metal parts are plated brass and stainless steel.	
Length	Total:	0.87m (34 in)
	Element:	0.68m (27 in)
	Base:	0.22m (8.6 in)*
Weight	Whip:	1.1 kg (2.4 lbs)
	Base:	2.85 kg (6.3 lbs)*
Wind rating	55 m/s = 125 mph	
Finish	Polyurethane lacquer.	
Colour	Customer Specified	
Installation	See base option table	
Temperature range	-55 °C, +71 °C; -67 °F, +160 °F	

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

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Typical Radiation Diagram, Elevation

GPS Electrical Specification (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	2.7-5.5V	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

Base Options

Below are a small selection of bases available for the VHF136174VM. Spring and rigid bases are available for vehicle, shelter, mast and pole mounting. Please contact Comrod at sales@comrod.com with your specific requirement.



NATO 4-hole Spring GPS option 4 x M10 or 3/8" Bolts on 114mm (4.5in) PCD Base diameter 140mm (5.5in) Standard base height 215mm (8.5in)



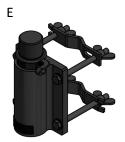
NATO 4-hole Rigid GPS option 4 x M10 or 3/8" Bolts on 114mm PCD Base diameter 140mm (5.5in) Standard base height 100mm (4in)



NATO 50mm Thread GPS option Base diameter 95mm (3.74in)



Mast Mount Bracket 24mm (0.94in) Spigot 40mm (1.57in) Spigot 50mm (1.97in) Spigot 40mm (1.57in) Socket 50mm (1.97in) Socket Customer Specified



Mast Mount Bracket
Tube clamp to suit poles
up to Ø65mm

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 proprietory to Comrod.









Antenna to base connection