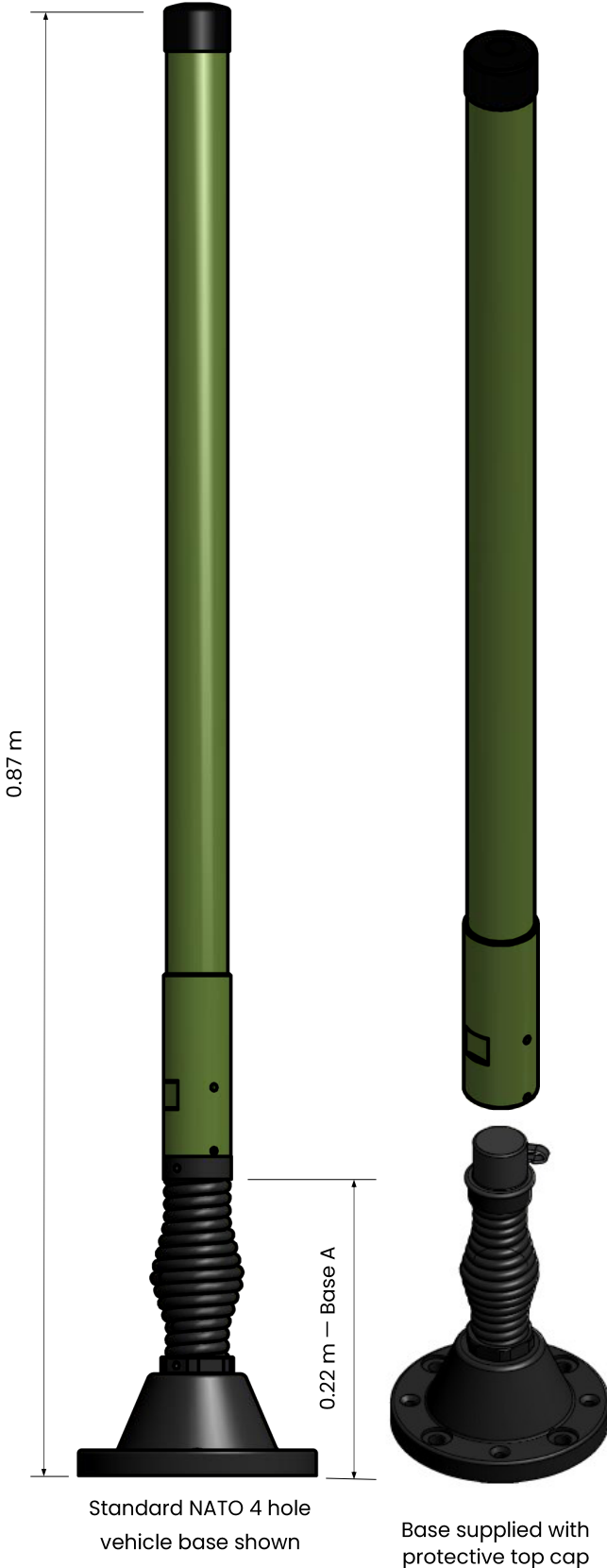


UHF225450VM/HG

UHF vehicle whip, dipole, 0.87 m, 225-450 MHz

Naval Antennas and Systems: Shipboard



Application

The UHF225450VM/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 (Antenna)

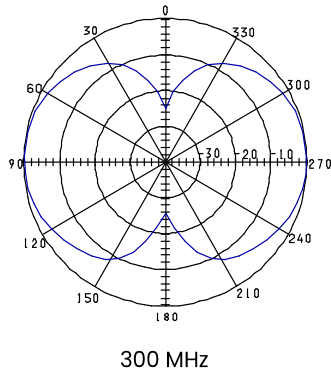
Frequency Range	225 - 450 MHz
VSWR	<3:1
Nominal Impedance	50 Ω
Power Rating	100 W
Gain	0.5 ... 2 dBi
Radiation Pattern	Azimuth: Omnidirectional Elevation: See diagram
Polarisation	Vertical
Connector	BNC Female, others on request

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 (Option A): 0.22 m
Weight	Whips - 1.1 kg Complete - 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. Base options specified overleaf.

Radiation Diagram, Elevation



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

Antenna Base Options

Bases are available to suit most installations including vehicle, mast and shelter mounting. Many are available with optional L1 and L1/L2 GPS. All bases are supplied with a protective top cap. See below for mounting options:-



A
NATO 4-hole Spring
4 x M10 or 3/8" Bolts
on 114 mm PCD
Base diameter 140 mm
Base height 215 mm



B
NATO 4-hole Spring GPS
4 x M10 or 3/8" Bolts
on 114 mm PCD
Base diameter 140 mm
Base height 240 mm



C
NATO 4-hole Rigid
4 x M10 or 3/8" Bolts
on 114 mm PCD
Base diameter 140 mm
Base height 100 mm



D
NATO 4-hole Rigid GPS
4 x M10 or 3/8" Bolts
on 114 mm PCD
Base diameter 140 mm
Base height 125 mm



Bases A, B, C and D are also available with optional NATO 6-hole pattern
6 x M6 or 1/4" Bolts
on 111 mm PCD



E
NATO 50 mm Thread with Spring
Base diameter 74 mm
Base height 188 mm



F
NATO 50 mm Thread GPS with Spring
Base diameter 95 mm
Base height 230 mm



G
NATO 50 mm Thread Rigid
Base diameter 74 mm
Base height 60 mm



H
General Purpose Bulkhead Adaptor
Mounting hole diameter 22 mm



I
Mast Mount Bracket
40 mm Socket
42 mm Socket
50 mm Socket
55 mm Socket
Customer Specified

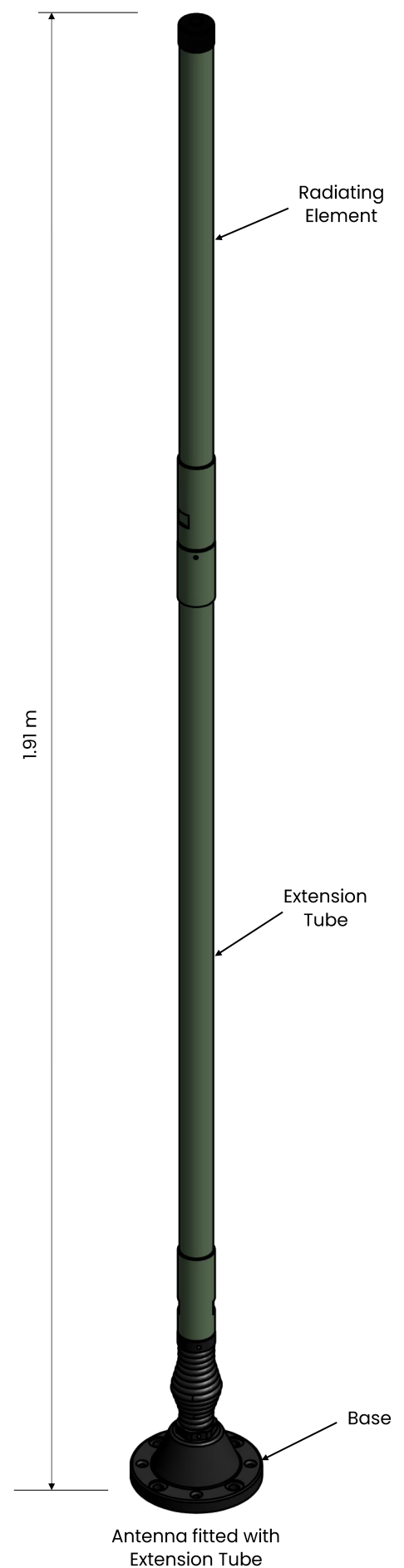
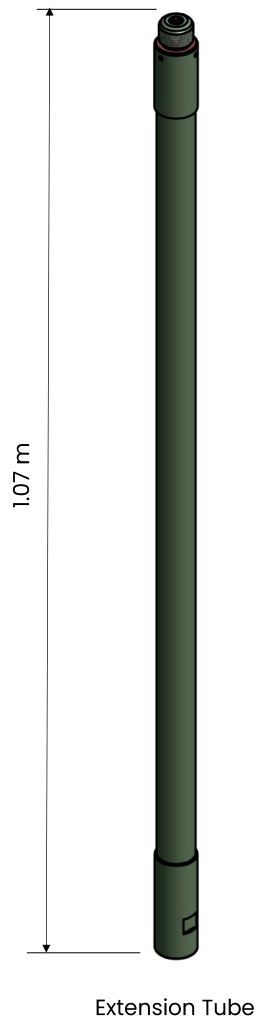


J
Mast Mount Bracket
24 mm Spigot
40 mm Spigot
50 mm Spigot
Customer Specified

Optional Extension Tube

An extension tube is available to raise the height of the radiating element by 1 metre. This can be used if the radiating element on the standard base is too close to any metallic components causing potential radiation pattern distortion.

The extension fits in between the top of the base and the bottom of the radiating element. It can be fitted onto all the base options listed.



September 2018

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

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