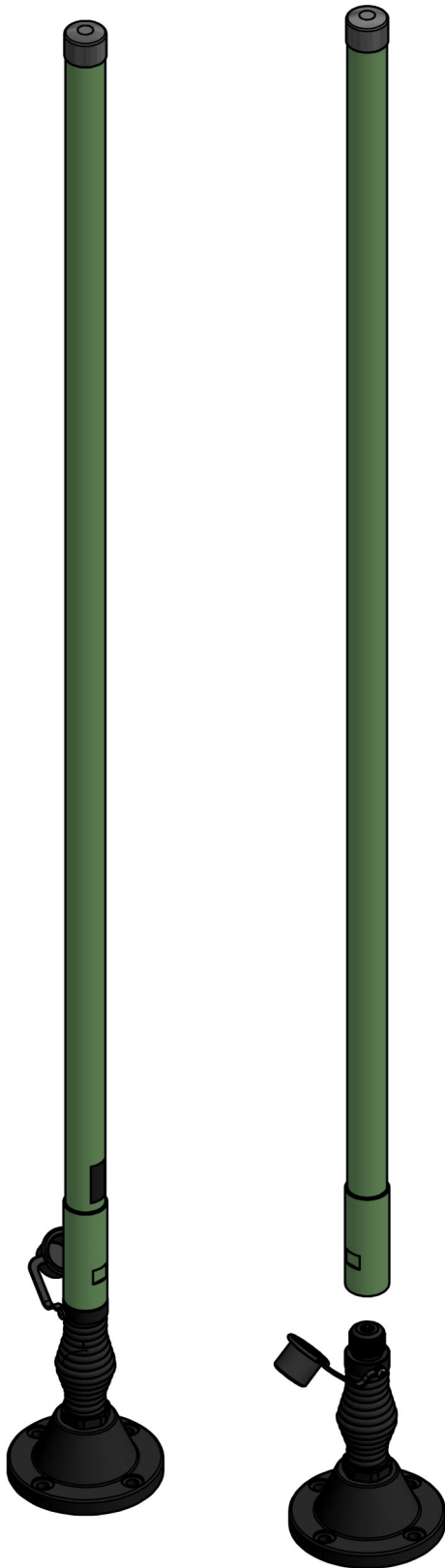


VHF108185VM

VHF vehicle whip, dipole, 1.64 m, 108-185 MHz

Tactical Antennas: Vehicle Mount



4-hole NATO spring base shown
(base options shown on page 2)

Technical Description

- 108 –185MHz
- Designed for operation on all in-service military platforms including armoured and soft skin, metal chassis or composite, wheeled or tracked
- Suitable for operation on shelters, mounted on masts or other permanent installations
- No tuning electronics in the base
- Rugged high quality antenna with a durable construction
- Dipole design, no ground plane required
- Optional bases available, with or without spring for flexible or rigid installations
- L1 and L1/L2 GPS bases available

Electrical Specifications

Frequency Range	108 – 185 MHz
VSWR	≤ 2.6, see curve
Nominal Impedance	50 Ω
Power Rating	50 W continuous for 20 minutes
Gain	≥0 dBi, see curve
Radiation Pattern	Horizontal plane: Omnidirectional Vertical plane: Like any dipole, see curve
Polarisation	Vertical
DC Grounded	Yes
Connector	Base bottom: BNC-female, other on request

Mechanical Specifications

Design	Centre-fed dipole. Radiating element completely enclosed in epoxy/fibreglass laminate. Metal part are brass and stainless steel.
Length*	1.59 m
Weight	Whip 1.7 kg Base* 1.9 kg
Wind Rating	TBD
Finish	Polyurethane lacquer
Temperature Range	- 55°C to + 71°C

* 4-hole NATO spring base version

GPS Electrical Specifications

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

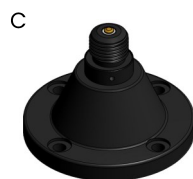
Bases are available to suit most installations including vehicle, mast and shelter mounting. Many are available with optional L1 and L1/L2 GPS. All bases are supplied with a protective top cap. See below for mounting options:-



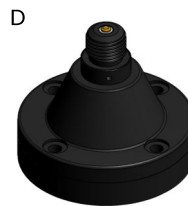
A
NATO 4-hole Spring
4 x M10 or 3/8" Bolts
on 114 mm PCD
Base diameter 140 mm
Base height 215 mm



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 125mm (5in)



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



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



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



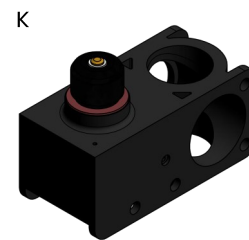
H
General Purpose
Bulkhead Adaptor
Mounting hole
diameter 22 mm



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

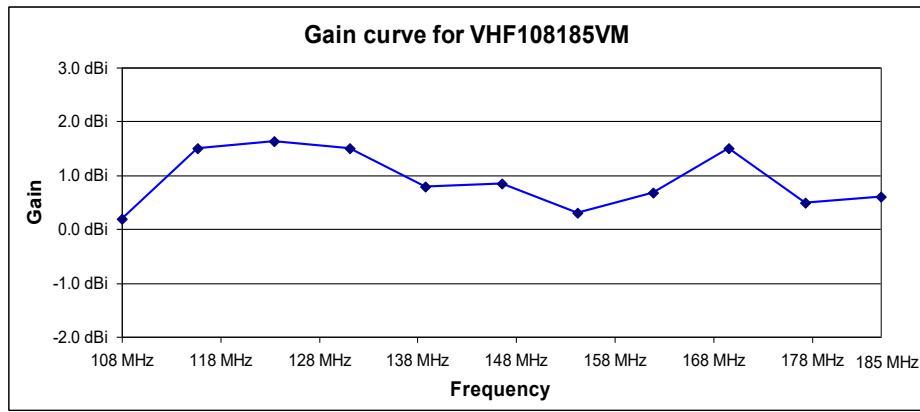


J
Mast Mount Bracket
24 mm Spigot
40 mm Spigot
50 mm Spigot
Customer Specified

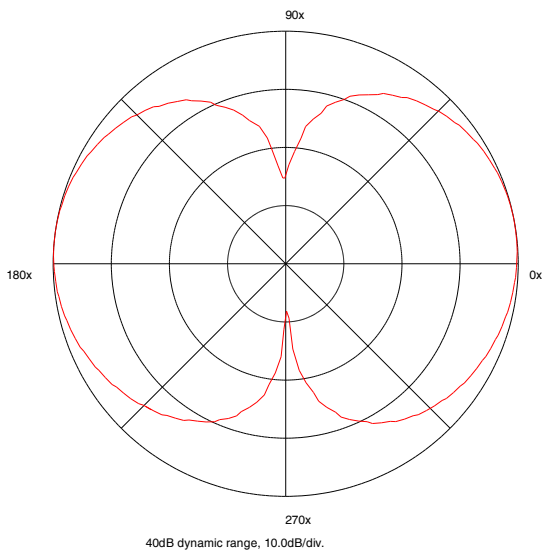


K
AMX85 Mast Mount
Bracket
To fit Comrod AMX85
mast sections

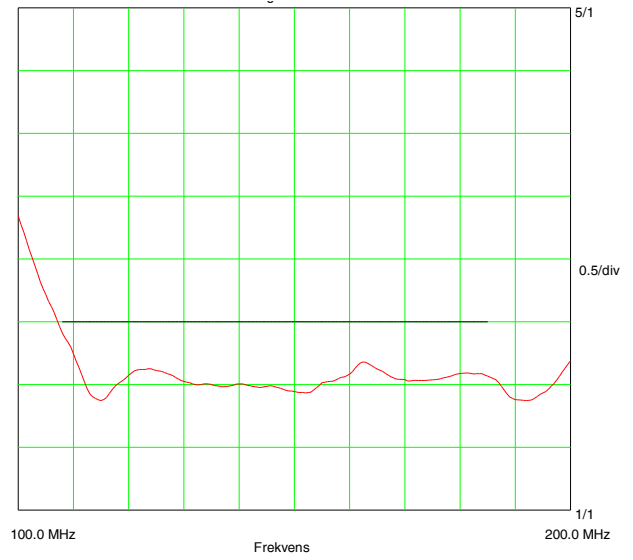
Electrical Specifications (cont.)



Radiation Diagram



VSWR



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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