

VHF30108VM

VHF Dipole Antenna, Vehicle, Mast & Fixed Mount Base options including L1 & L1/L2 GPS

1.45m (57ins) - Whip Upper 3.3m (130ins) 1.8m (71ins) - Whip Lower 0.22m (9in) (Base A)

Standard NATO 4 hole vehicle base (A)

Application

The VHF30108VM is a VHF 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 (Antenna)

| Frequency range | 30 - 108 MHz |
|-------------------|---|
| VSWR | See diagram |
| Nominal impedance | 50 ohm |
| Power rating | 100 W |
| Gain | See diagram |
| Radiation pattern | Azimuth: Omnidirectional Elevation: See overleaf |
| 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: 3.3 m (130 in) Lower Whip: 1.8 m (71 in) Upper Whip: 1.45 m (57 in) Base (Option A): 0.22 m (9 in) | | |
| Weight | Whips - 1.65 kg (3.6 lbs) Complete - 3.4 kg (7.5 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. Base options specified overleaf.# Nominal dimensions subject to manufacturing tolerances.

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Specifications subject to change without notice. Values are subject to tolerances. The information in this document does not form part of any quotation or contract

GPS Electrical Specification

| 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 |

Antenna Base Options

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



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



NATO 4-hole Spring GPS 4 x M10 or 3/8" Bolts on 114mm (4.5in) PCD Base diameter 140mm (5.5in) Base height 240mm (9.5in)



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



NATO 4-hole Rigid GPS 4 x M10 or 3/8" Bolts on 114mm (4.5in) PCD Base diameter 140mm (5.5in) Base height 125mm (5in)

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Bases A,B,C & D are also available with optional NATO 6-hole pattern 6 x M6 or 1/4" Bolts on 111mm (4.37in) PCD



NATO 50mm Thread with Spring Base diameter 74mm (2.9in) Base height 188mm (7.4in)



NATO 50mm Thread GPS with Spring Base diameter 95mm (3.7in) Base height 230mm (9in)



NATO 50mm Thread Rigid Base diameter 74mm (2.9in) Base height 60mm (2.4in)



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General Purpose Bulkhead Adaptor Mounting hole diameter 22mm (0.87in)



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

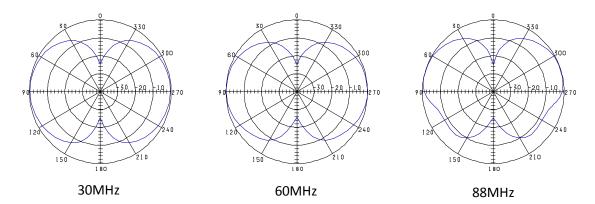


Mast Mount Bracket 24mm (0.94in) Spigot 40mm (1.57in) Spigot 50mm (1.97in) Spigot Customer Specified

Antenna Options

| Product | Description |
|--------------|---|
| Whip Bag | Protective carrying bag for upper and lower whip sections. |
| Tie Down Kit | Allows the whip to be tied down to the vehicle while in motion. |

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