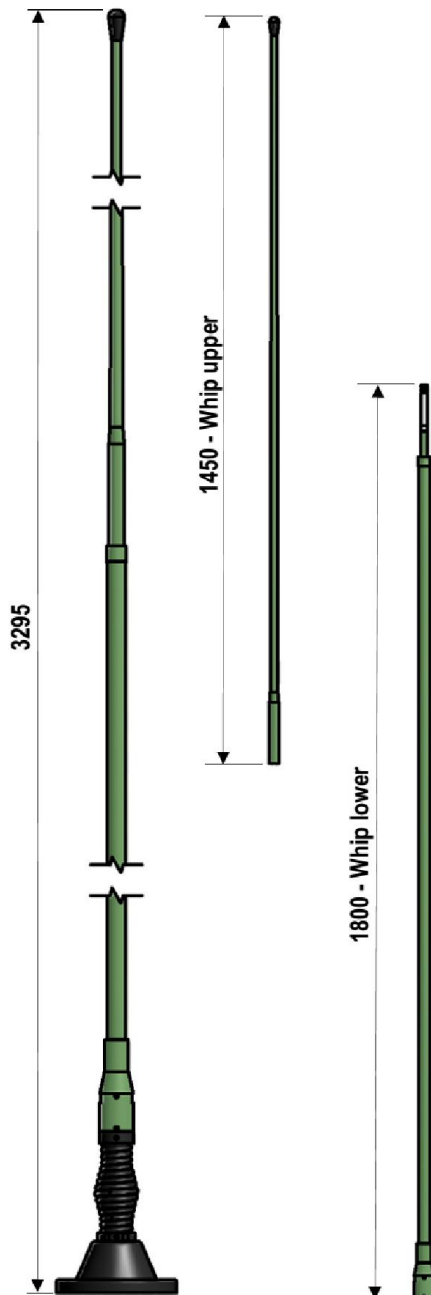


VHF30108VM-MIL-SD-0004.pub

Prod.: 15.07.03

## COMROD VHF30108VM VHF Broadband Antenna



### Application:

- \* 30 - 108 MHz
- \* Designed for operation on all kinds of vehicles including Jeeps, Trucks and other armoured vehicles
- \* Suitable for operation on shelters and to be mounted on masts or in other permanent installations
- \* Different kinds of bases available, with or without spring for flexible or rigid installations
- \* No groundplane needed
- \* No tuning electronics in the base
- \* No tuning required
- \* Uses the same bases as our VHF3088VM series of antennas. This includes a special base with a built-in GPS antenna.

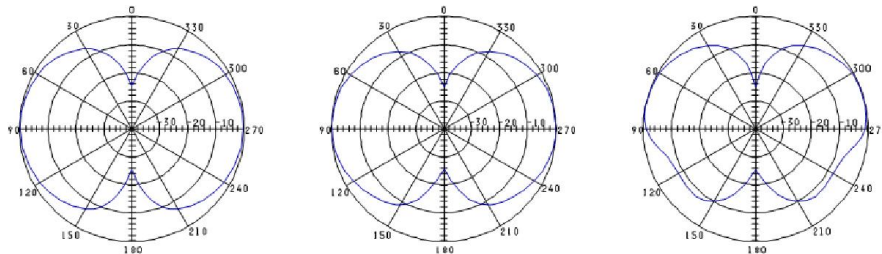
### Electrical specifications:

Frequency range	30 - 108 MHz
VSWR	< 3.5
Nominal impedance	50 ohm
Power rating	75 W cw
Gain	see diagram, overleaf
Radiation diagram	Azimuth: Omnidirectional
Polarization	Vertical
Connector	BNC or to be specified

### Mechanical specifications:

Design	Centered dipole. Radiating elements completely enclosed in epoxy/fibreglass laminate. Metal parts are brass and stainless steel.
Length, mounted	3.1 m, 3.3m with base 1.
Weight	1.65kg, ex. Base, 3.4kg with base 1.
Wind rating	55 m/s = 125 mph
Finish	Polyurethane lacquer, olive drab.
Temperature range	-55 °C, +71 °C; -67 °F, +160 °F
Nato codification complete antenna	
5985.25.146.8625	

## Radiation Diagram, Elevation:

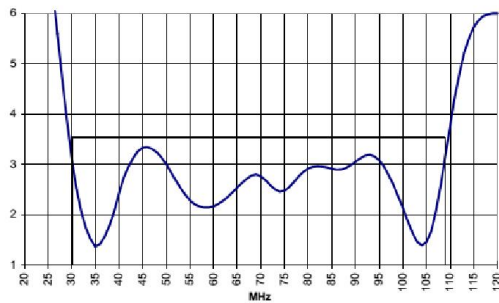


## VSWR

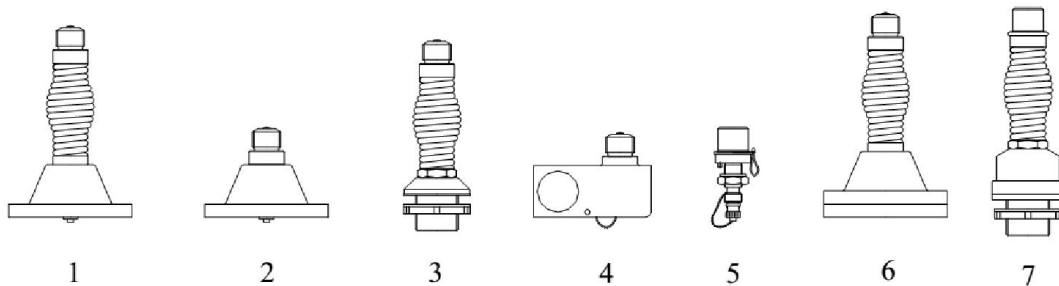
30MHz

60MHz

88MHz



## Bases:



## Part

Nato Codification	Description
5985-25-146-8625	Complete antenna with base no.1
5985-25-142-7958	Upper whip section
5985-25-152-3998	Lower whip section
5985-25-142-7956	Base-1, NATO base with coil spring, BNC
5985-25-145-5084	Base-2, NATO Base without coil spring
5985-25-148-1097	Base-3, Ø 50 mm base with coil spring, BNC
5985-25-144-0952	Base-4, Mast mounting bracket, BNC
5985-25-145-5085	Base-5, General purpose bracket, BNC
5985-25-146-6408	Base-6, NATO base with spring and GPS element. BNC See datasheet NTS/GPS
5985-25-149-3701	Base-7, Ø50mm with coil spring and GPS, BNC.

## Mounting:

The Mounting hardware makes VHF30108VM an extremely flexible and versatile system. The same antenna elements can be used for vehicles and mast mounting and for permanent installations. The antenna may easily be switched from one application to another without the use of tools.