

## Application

Setting a new standard for platform independent wideband communication, the VHF30512DB-DD combines two independent dipole antennas to offer a complete VHF/UHF solution.

Providing consistent communication performance across both the 30-88 MHz and 225-512 bands, the antenna is suitable for use on all modern in-service military platforms, including armoured or soft skin, metal chassis or composite, wheeled or tracked. Because the antenna does not rely on any monopole element it does not require a ground plane.

A wide range of bases are available to suit different NATO mounting configurations. Antenna bases can be provided with optional integrated GNSS antennas such as GPS L1-GALILEO E1 or GPS L1-L2.

## Electrical Specifications

Frequency Range	30-88MHz	225-512MHz
Nominal VSWR	3.6	3
Nominal impedance	50 Ohm	
Power rating	80 W	50 W
Gain (typical)	-6 to -3 dBi	-2 to +2 dBi Average 0 dBi
Isolation	-40 dB	-40 dB
Radiation pattern	Azimuth Omnidirectional	
Polarisation	Vertical	Vertical
Connectors	BNC female	TNC female

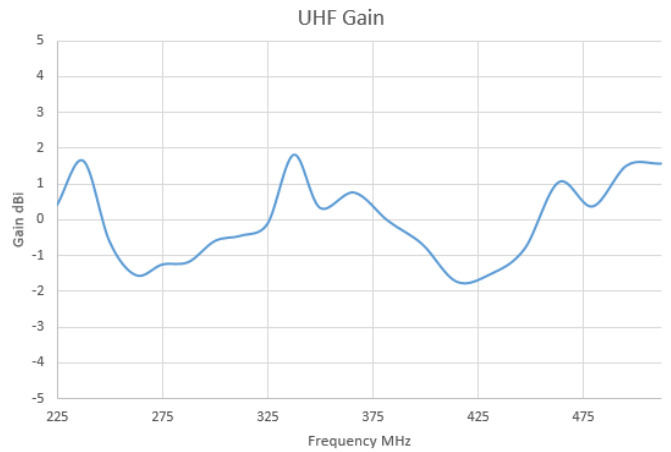
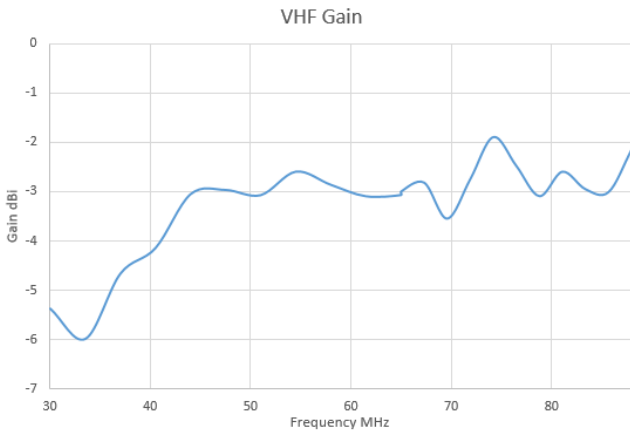
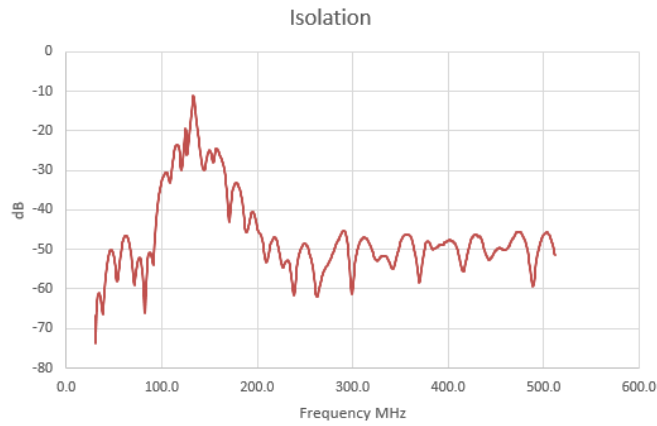
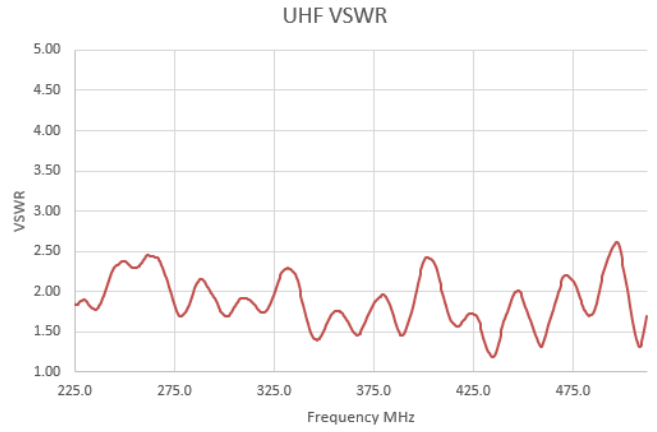
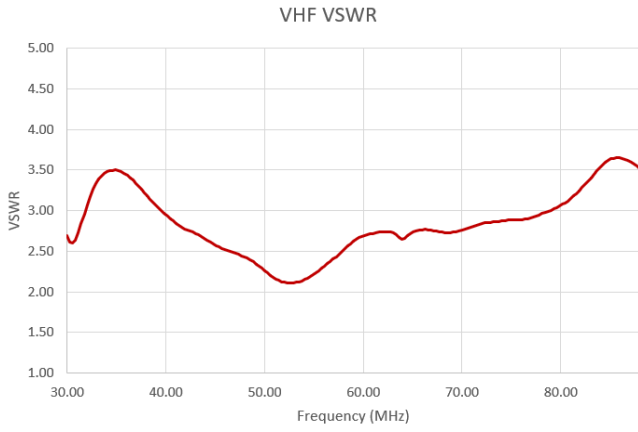
## Mechanical Specifications

Design	Dual-dipole design. Radiating elements completely enclosed in epoxy/fiberglass laminate. Metal parts plated brass and stainless steel.
Length	Overall - 2.9 m Base - 0.3 m Lower Whip - 1.7 m Upper Whip - 0.95 m
Weight	5 kg
Colour	Customer specified
Temperature range	-40°C +71°C, -40°F + 160°F



NATO 4-hole spring base

## VSWR, Isolation and Gain Plots (typical)



## GPS Options

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