

## VHF30512DB-DD

VHF/UHF vehicle whip, dual-band, dipole/dipole, GPS, 2.9 m,  
30-88 MHz, 225-512 MHz

### Tactical Antennas: Vehicle Mount



### 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. As 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

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

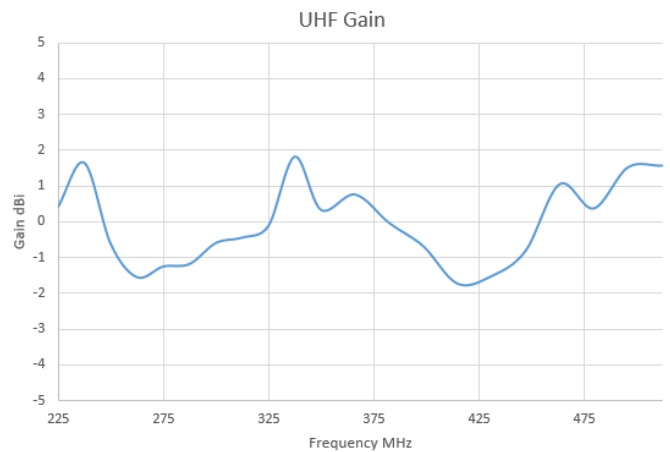
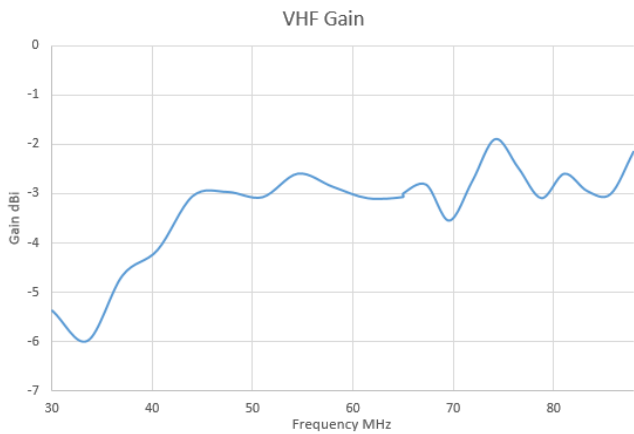
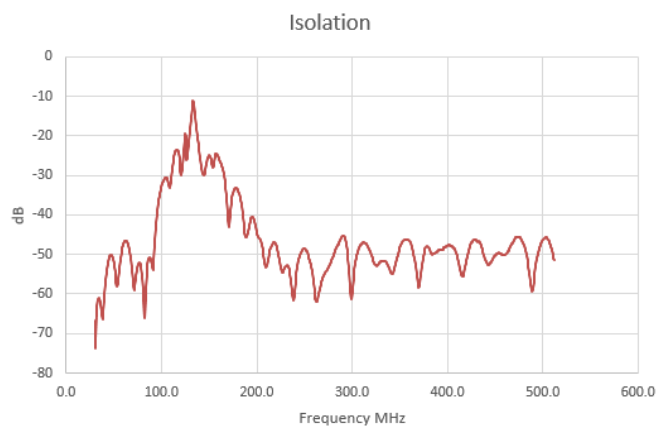
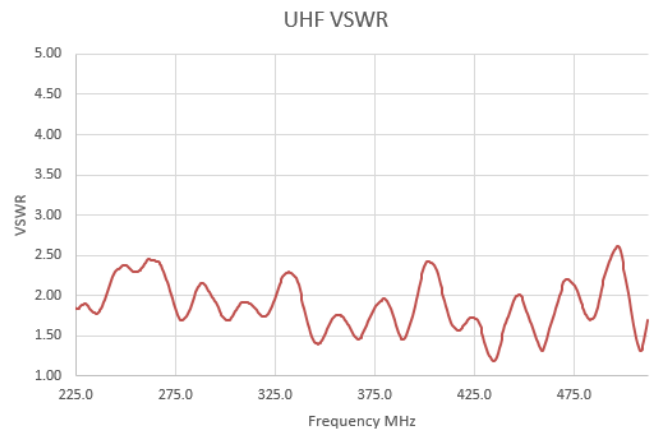
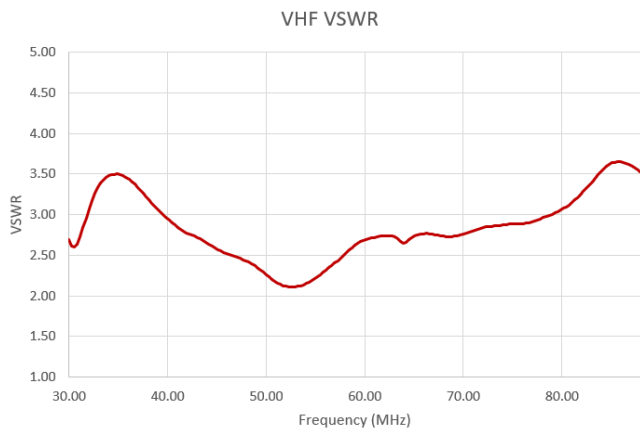
### Mechanical Specifications

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



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	2.7-5.5 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

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

Partnered Supplier



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