

Vehicle-Mount V/UHF Antenna

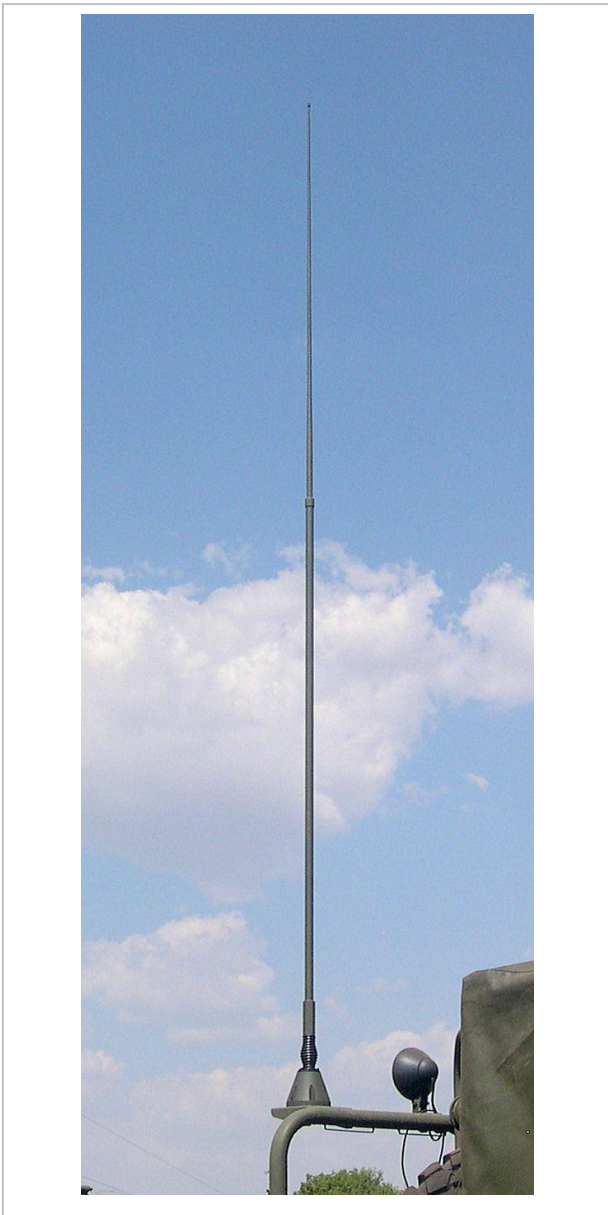
30 – 88 & 225 – 512 MHz

Product Code: OMNI-A0239

VERSION: 1.1

SPECIFICATIONS:

Product code: OMNI-A0239	
Electrical:	
Frequency range:	
Band A:	30 – 88 MHz
Band B:	225 – 512 MHz
Gain	See graph
VSWR	< 3.5:1
Nominal impedance	50 Ω
Power handling:	
Band A:	100 W
Band B:	50 W
Polarisation	Vertical
Connector:	
Band A:	BNC female
Band B:	N-type female
Groundplane requirements:	
Band A:	Groundplane dependent: Minimum 2000 mm x 2000 mm recommended
Band B:	Groundplane independent
Mechanical:	
Dimensions of base (l x d)	200 mm x 140 mm
Dimensions of whip (l x d)	2600 mm x 40 mm max
Total mass	5 kg
Mounting base	NATO flange 4 and 6 holes
Colour	Black, others on request
Environmental: designed to meet the following specifications	
Temperature range	Storage: -30 °C to +70 °C Operation -30 °C to +55 °C
Weather proofing	IP65
Shock and vibration	MIL-STD-810E 516.4: vibration category 8, shock 40 g



PRODUCT FEATURES:

- High efficiency VHF antenna
- Full-band coverage, takes the place of 2 regular antennas
- Proven flexible base spring protects the antenna against impacts

APPLICATION AREAS:

- Vehicle high-power and communications systems
- Wideband monitoring

PRODUCT OVERVIEW:

This dual-band antenna covers the 30 to 88 MHz VHF band as well as the 225 to 512 MHz UHF band. The antenna whip is spring loaded at the base which allows the whip to bend back when struck by overhead objects. The top half of the whip is detachable to allow for more compact storage. The antenna retains some reduced functionality in the VHF band when the top half of the whip is removed

The base contains the two RF connectors and also houses an optional GPS antenna which operates in the L1 band

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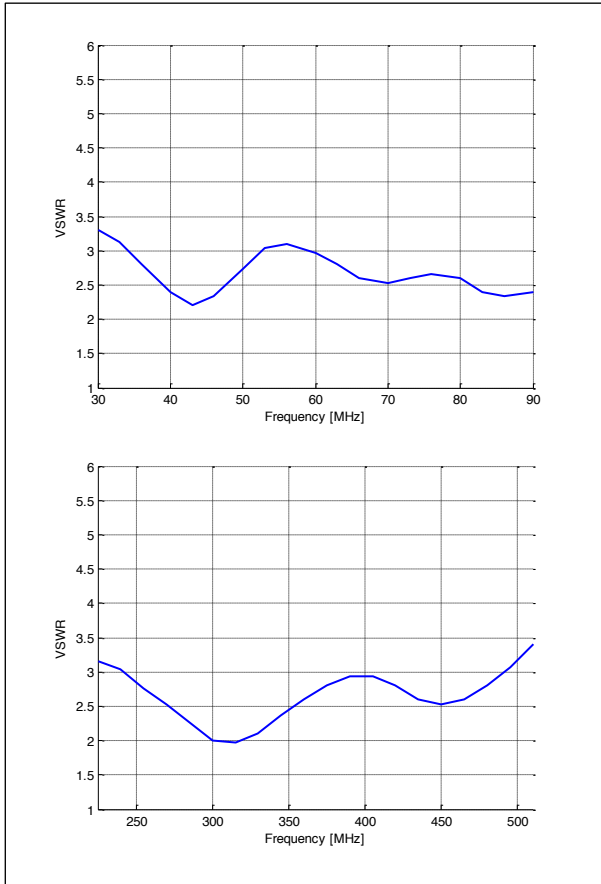
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VSWR AND GAIN GRAPHS:

Typical VSWR:



GAIN:

