

Wideband HF/VHF/UHF Vehicle Monitoring Antenna

20 – 520 MHz

Product Code: OMNI-A0245

VERSION: 1.3

SPECIFICATIONS:



Electrical:	
Frequency range	20 – 520 MHz
Gain	See graph
VSWR	< 3.5:1, typical 2.5:1
Nominal impedance	50 Ω
Azimuth pattern	Omni-directional
Elevation pattern	Monopole pattern
Power handling	Receive only
DC resistance	Short circuit
Groundplane requirements	Groundplane dependent, minimum 1000 mm x 1000 mm recommended
Connector	N-type female
Mechanical:	
Dimensions (l x d)	1000 mm x 37 mm
Base diameter	135 mm
Total mass	< 1 kg
Mounting	NATO base flange, 4 and 6 holes
Colour	Black, others on request
Environmental: designed to meet the following specifications	
Temperature range	Storage: -41 °C to +71 °C. Operation -31 °C to +70 °C
Ingress protection	IP65 water resistant (when flange is mounted)
Shock and vibration	MIL-STD-810G 516.4: Vibration category 8, shock 40 g

PRODUCT FEATURES:

- Wide frequency coverage (20 to 520 MHz)
- Omni-directional azimuth pattern
- Rugged and hard-wearing
- Suited to low-profile applications

APPLICATIONS:

- Communications monitoring

PRODUCT OVERVIEW:

The OMNI-A0245 is a passive monitoring antenna designed to operate in the 20 to 520 MHz frequency band. It is mounted on a connector base, with a matching unit at the base, a spring for shock absorption and flexibility, and has a thin steel whip.

The radiating whip is loaded along its length to control the antenna radiation patterns. It is thin and flexible over most of its length, with loads protruding slightly. The whip will not be damaged by contact with trees, overhead objects, etc., in normal operation.

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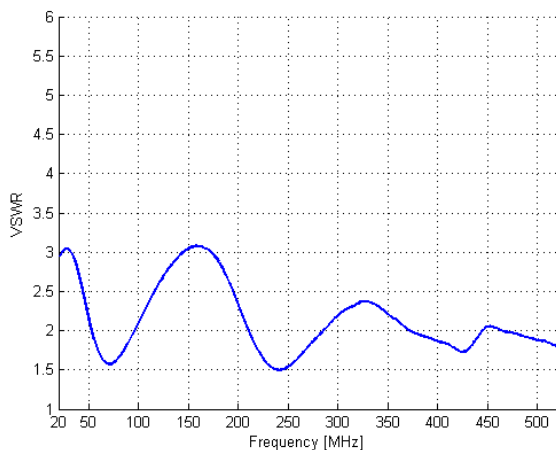
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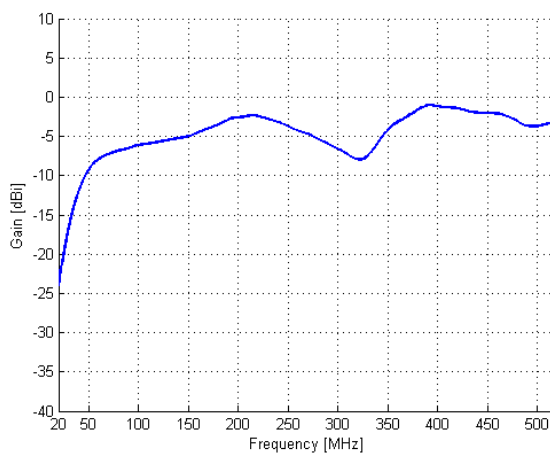
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Measured VSWR and gain graphs:

Typical VSWR:



GAIN:



Radiation patterns:

E-plane:

