

# Vehicle-Mount High-Power Antenna

500 – 800 MHz

VERSION: 1.5

Product Code: OMNI-A0162

## SPECIFICATIONS:



<b>Electrical:</b>	
Frequency range	500 – 800 MHz
Gain	4 dBi typical
Azimuth pattern	Omni
Elevation pattern	Narrow beam (see graph)
Polarisation	Vertical
Nominal impedance	50 Ω
VSWR	< 2.5:1 or better
Power handling	50 W CW
Connector	N-type female at base
Groundplane required	No
<b>Mechanical:</b>	
Dimensions (l x d)	1100 mm x 50 mm
Base diameter	135 mm
Total mass	< 2 kg
Mounting	NATO base flange, 4 and 6 holes
Colour	Black, others on request
<b>Environmental: designed to meet the following specifications</b>	
Temperature range	Storage: -41 °C to +71 °C Operation -31 °C to +55 °C
Weatherproofing	IP 67 water resistant (when flange is mounted)
Shock and vibration	MIL-STD-810E 516.4: Vibration category 8, shock 40 g
Exposed materials	Painted e-glass Anodized aluminium Stainless steel

## PRODUCT OVERVIEW:

The OMNI-A0162 is a high gain, high-powered, omni-directional antenna designed for high-power applications. It is mounted on a 4/6 hole base flange, with a spring for shock absorption and flexibility for vehicular mounting. An e-glass tube contains the antenna RF radiator.

The antenna is based on a collinear dipole-type design and is therefore groundplane independent.

## PRODUCT FEATURES:

- High gain, high-power antenna
- Proven flexible base spring protects the antenna
- High-power – 50 at 100% duty cycle
- Rugged and waterproof
- VSWR < 2.5:1
- Groundplane independent

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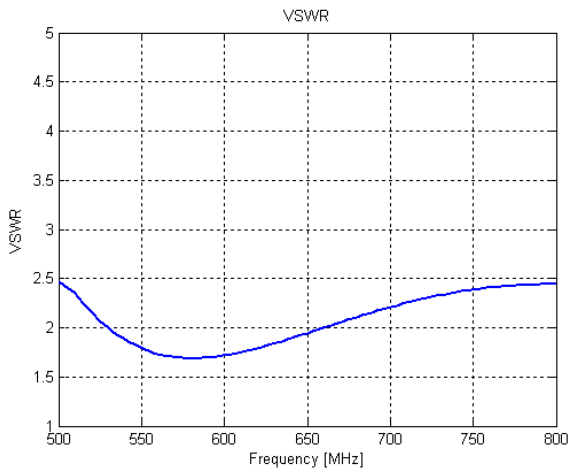
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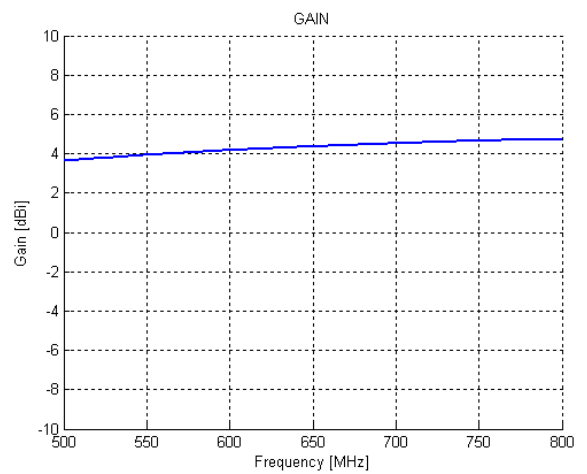
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VSWR and gain graphs:

Typical VSWR:



GAIN:



Elevation Patterns

