

# Mobile S-Band Antenna

2000 – 2500 MHz

Product Code: OMNI-A0086

VERSION: 3.4



## SPECIFICATIONS:

<b>Electrical:</b>	
Frequency range	2000 – 2500 MHz
VSWR	< 2.5:1
Nominal input impedance	50 Ω
Connector	N-type female in base
Feed power handling	50 W
Gain (max)	5 dBi
Gain (min over the band)	3 dBi
Elevation 3 dB beamwidth	35° (±7°)
Azimuth ripple	< 1.5 dB peak-to-peak
Polarisation	Vertical
<b>Mechanical:</b>	
Installed height	450 mm
Total mass	< 1 kg
Colour	Matt black
Mounting method	NATO Flange 4 and 6 holes
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	160 km/h
Temperature range	-40 °C to +70 °C
Water ingress rating	MIL-STD-820F (506.4)

## PRODUCT FEATURES:

- Standard NATO 4-hole and similar 6-hole flange mounting
- Flexible spring allows antenna to bend up to 70° under obstacles
- Wideband coverage: 2000 to 2500 MHz
- High gain, 4 dBi typical
- 50 W input power handling

## APPLICATIONS:

- Mobile communications
- Intercept and monitoring
- Mobile convoy protection

## PRODUCT DESCRIPTION:

The OMNI-A0086 is a vehicle-mounted high gain wideband antenna, for the 2000 to 2500 MHz frequency range. With its rugged construction, flexible base spring and high feed power handling, it is suitable for the most demanding applications. A co-linear design is used for the antenna element, giving it significant gain over simple dipole designs.

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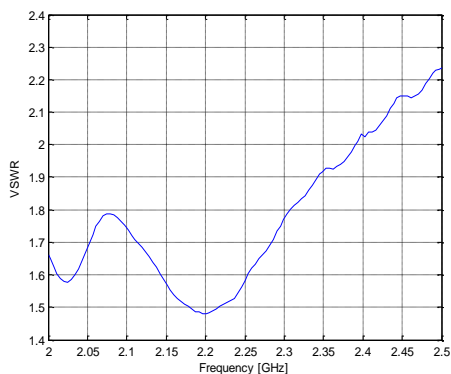
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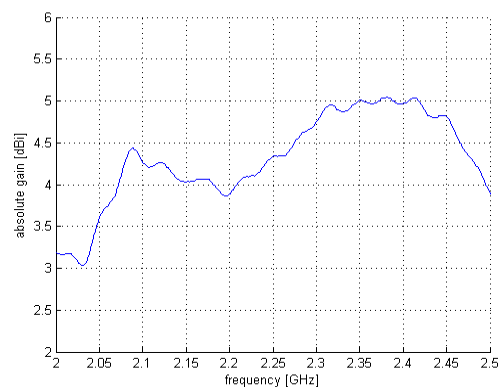
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## VSWR AND GAIN GRAPHS:

Measured VSWR

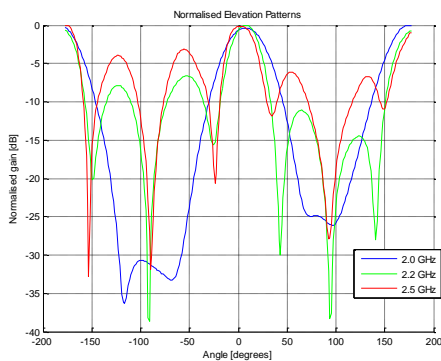


Measured gain:



## NORMALISED ELEVATION PATTERNS:

Elevation (E-Plane)



Azimuth (H-plane)

