

High-Powered Antenna

100 – 6000 MHz

Product Code : OMNI-A0187



SPECIFICATIONS:

Electrical:	
Frequency (band A)	100 – 500 MHz
(band B)	400 – 3000 MHz
(band C)	850 – 6000 MHz
VSWR (band A)	< 2.5:1
VSWR (band B)	< 2.5:1
VSWR (band C)	< 3:1
Nominal input impedance	50 Ω
Connector	3 x N-type female
Power: band A	100 W
band B	100 W
band C	50 W
Polarisation	Vertical
Pattern	Omni-directional
Gain	See graphs
Groundplane requirements	Required (1500mm x 1500mm recommended)
Mechanical:	
Base (d x h)	140 mm x 800 mm
Radiator diameter	220 mm
Weight	< 5 kg
Environmental: designed to meet the following specifications	
Wind survival	180 km/h
Temperature range	- 20 °C to +70 °C
Water ingress rating	IP 65

PRODUCT FEATURES:

- 100 to 6000 MHz frequency range
- Rugged
- Suited for vehicle-mount applications

APPLICATION:

- High-power applications

PRODUCT DESCRIPTION:

The OMNI-A0187 is a high-powered antenna designed for vehicle applications in the 100 to 6000 MHz frequency band. The antenna may be used at frequencies as low as 80 MHz if a higher VSWR and lower gain can be tolerated.

The fibre glass radome is equipped with spring mounting to allow whip-action and resistance to impacts and obstructions.

Band A (100 to 500 MHz) is groundplane dependent and a ground strap is provided to aid with grounding. Bands B (400 to 3000 MHz) and C (850 to 6000 MHz) are ground plane independent.

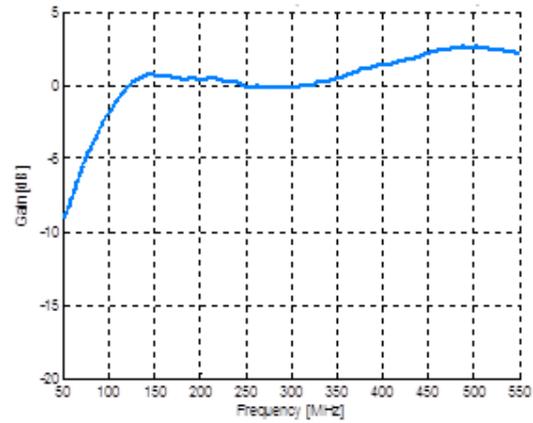
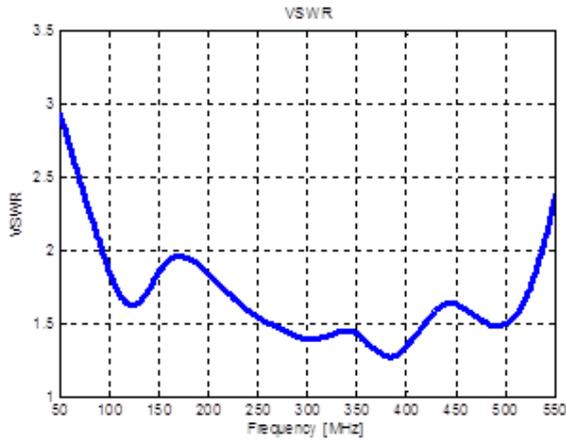
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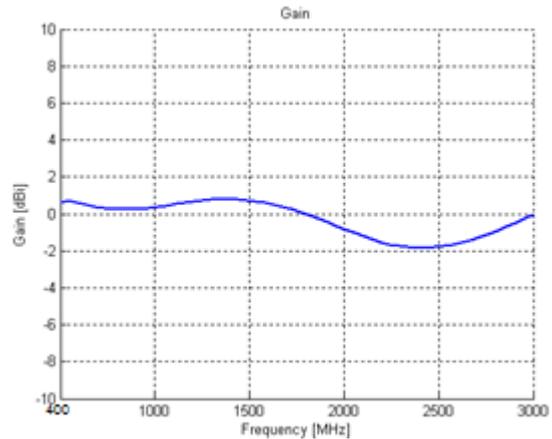
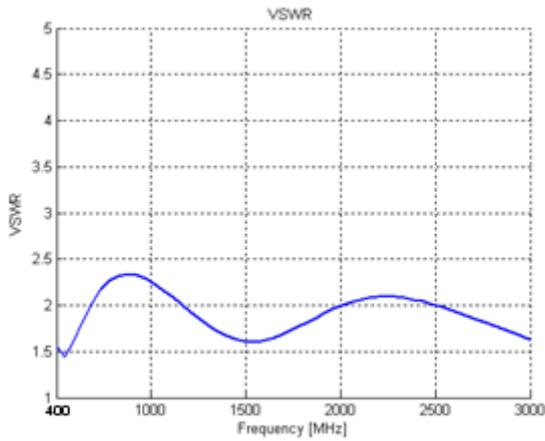
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VERSION 1.5

VSWR AND GAIN, BAND A (100 – 500 MHz):



VSWR AND GAIN, BAND B (400 – 3000 MHz):



VSWR AND GAIN, BAND C (850 – 6000 MHz):

