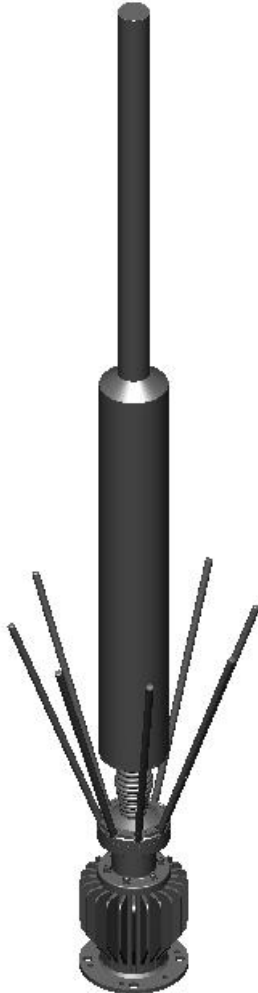


# High-Power Wideband Transmit Antenna

100 – 6000 MHz

VERSION: 1.5

Product Code: OMNI-A0201



## PRODUCT FEATURES:

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

## APPLICATION:

- Improvised explosive device (IED) suppression
- Communications interception

## RELATED PRODUCTS:

- OMNI-A0221

## SPECIFICATIONS:

<b>Electrical:</b>	
Frequency range:	
Band A	100 – 500 MHz
Band B	850 – 960 MHz & 1700 – 2500 MHz
Band C	850 – 960 MHz & 1700 – 2500 MHz
Band D	2000 – 6000 MHz
VSWR:	
Band A	< 2.5:1, typical
Band B	< 2.5:1
Band C	< 2.5:1
Band D	< 2.5:1
Gain	See graphs
Feed power handling:	
Band A	150 W CW
Band B	60 W
Band C	60 W
Band D	50 W
Polarisation	Vertical
Nominal input impedance	50 Ω
Connectors	4 x N-type female
Groundplane requirements:	
Band A	Groundplane dependent (1000 mm x 1000 mm recommended)
Band B + C + D	Groundplane independent
<b>Mechanical:</b>	
Dimensions:	
Total length	< 1450 mm
Base diameter	< Ø140 mm
Maximum diameter	< Ø330 mm
Total mass	< 9 kg
Mounting method	NATO flange 4 and 6 holes
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	160 km/h by analysis
Temperature range	-30 °C to +70 °C by design
Shock and vibration	Designed to be certifiable to MIL-STD-810E 516.4: vibration category 8, shock 40 g
Water ingress rating	IP65 by design

## PRODUCT DESCRIPTION:

The OMNI-A0201 is a high-power, wideband transmitting antenna designed for vehicle-mounted applications. The antenna operates from 100 to 6000 MHz separated into 4 bands; Band A covers 100 to 500 MHz, Bands B and C cover 850 to 960 MHz and 1700 to 2500 MHz and Band D covers 2000 to 6000 MHz.

The radiators as well as the fibreglass whip are equipped with spring mounting to allow whip-action and resistance to impacts and obstructions.

The antenna is designed for direct mounting to ground platform with aid of grounding strap provided.

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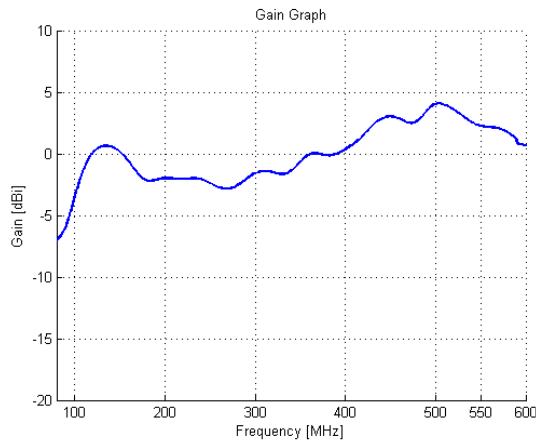
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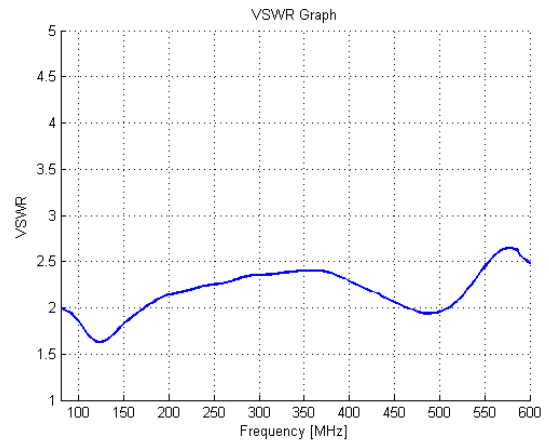
## Typical gain:

### Band A:

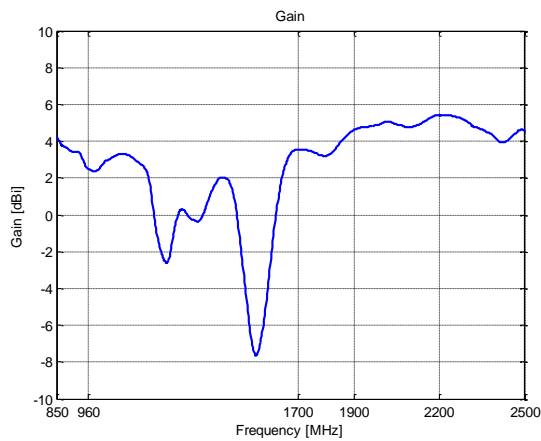


## Typical VSWR:

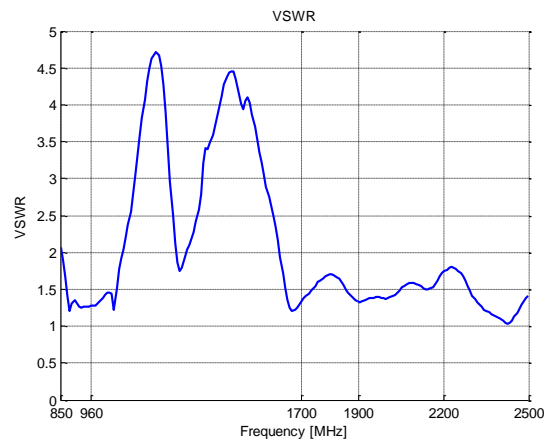
### Band A:



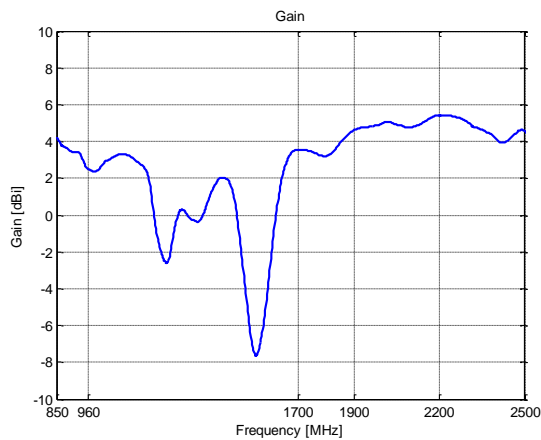
### Band B:



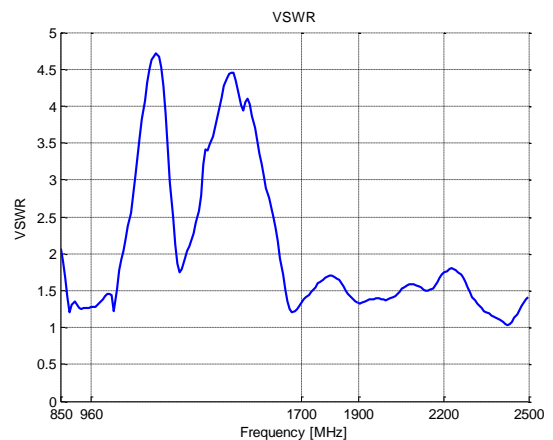
### Band B:



### Band C:



### Band C:



# High-Power Wideband Transmit Antenna

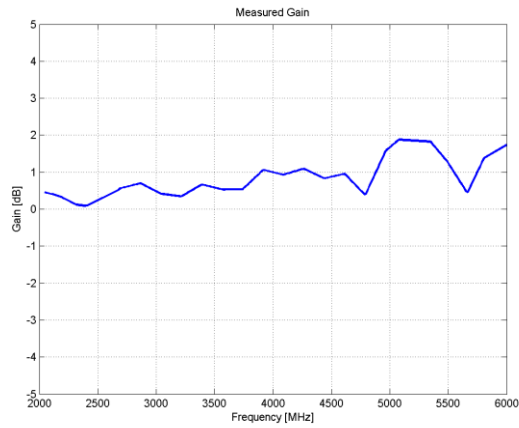
100 – 6000 MHz

Product Code: OMNI-A0201

VERSION: 1.5

Typical gain:

Band D:



Typical VSWR:

Band D:

