

Wideband Monitoring Antenna

20 – 6000 MHz

Product Code: OMNI-A0223

VERSION: 1.5

SPECIFICATIONS:



Electrical:	
Frequency range:	
Band A	20 – 550 MHz
Band B	500 – 2600 MHz
Band C	1950 – 6000 MHz
VSWR:	
Band A	< 3.5:1
Band B	< 2.5:1
Band C	< 2.5:1
Gain	See graphs
Feed power handling	Receive only
Polarisation	Vertical
Nominal input impedance	50 Ω
Connectors	3 x N-type female
Groundplane requirements:	
Band A	Groundplane dependent (1000 mm x 1000 mm recommended)
Band B + C	Groundplane independent
Mechanical:	
Dimensions:	
base	Ø100 mm x 385 mm
whip	Ø24 mm x 940 mm
Total mass	< 5.5 kg
Mounting method	NATO flange 4 and 6 holes
Environmental: designed to meet the following specifications	
Wind survival	160 km/h
Temperature range	-30 °C to +70 °C
Water ingress rating	IP 65
Shock and vibration	MIL-STD-810E 516.4: vibration category 8, shock 40 g

PRODUCT FEATURES:

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

APPLICATION:

- Monitoring

PRODUCT DESCRIPTION:

The OMNI-A0223 is a passive wideband monitoring antenna designed for vehicle mounted applications. The antenna operates from 20 to 6000 MHz separated into three bands; Band A covers 20 to 520 MHz, Band B covers 500 to 2500 MHz and Band C covers 2000 to 6000 MHz.

The 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 is spring loaded to give way when struck.

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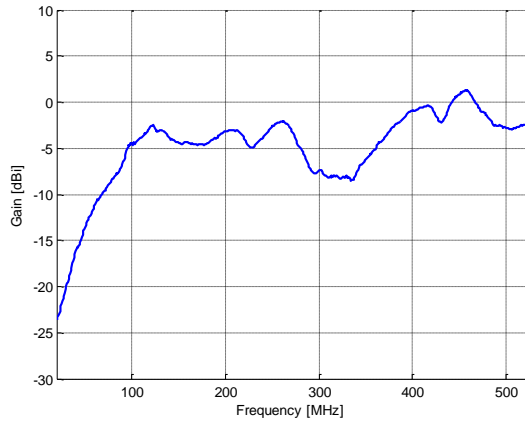
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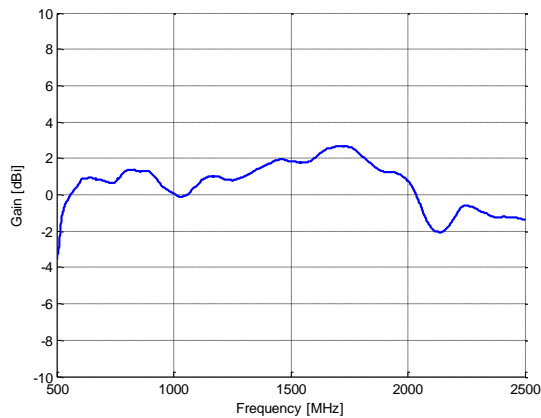
Typical gain:

Band A*:

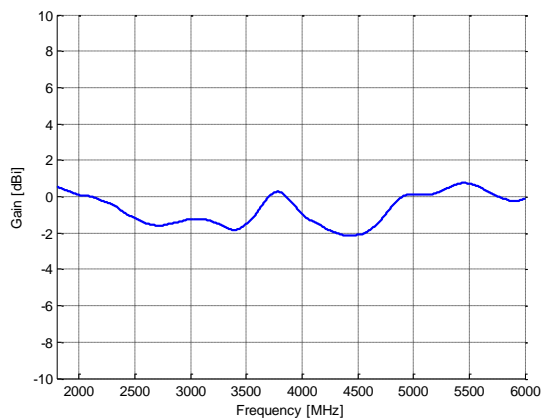


* Measured on a 3 m x 3 m groundplane

Band B:

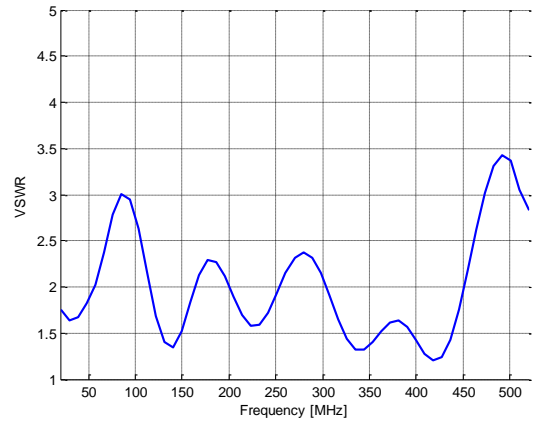


Band C:

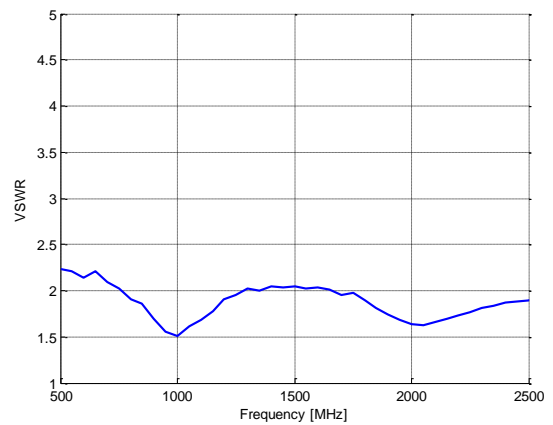


Typical VSWR:

Band A:



Band B:



Band C:

