

High-Power Wideband Antenna

20 – 3000 MHz

VERSION: 1.3

Product Code: OMNI-A0221



SPECIFICATIONS:

Product code:		
OMNI-A0221		Standard whip length
OMNI-A0221-01		Low profile version
Electrical:		
Frequency range:		
Band A		20 – 180 MHz
Band B		500 – 3000 MHz
VSWR:		
Band A		< 3:1, typical
Band B		< 2.5:1, typical
Gain:	OMNI-A0221	See graphs
	OMNI-A0221-01	Deteriorates by approx. 3 dB at low frequency compared to the standard OMNI-A0221
Feed power handling:		
Band A		120 W CW
Band B		100 W
Polarisation		Vertical
Nominal input impedance		50 Ω
Connectors		2 x N-type female
Ground plane requirements:		
Band A		Ground plane dependent (1000 mm x 1000 mm recommended)
Band B		Ground plane independent
Mechanical:		
Length:	OMNI-A0221	2100 mm
	OMNI-A0221-01	1600 mm
Base diameter		Ø140 mm
Maximum diameter		Ø200 mm
Total mass		< 9 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
Shock and vibration		MIL-STD-810E 516.4: vibration category 8, shock 40 g
Water ingress rating		IP65

PRODUCT DESCRIPTION:

The OMNI-A0221 is a high-power, wideband antenna designed for vehicle-mounted applications. The antenna operates from 20 to 3000 MHz separated into 2 bands; Band A covers 20 to 180 MHz and Band B covers 500 to 3000 MHz.

Band A can handle full rated power continuously at all frequencies, making it ideal for all 100% duty-cycle applications. The insulated radiator is robust, hard-wearing and impervious to fuel, oil and hydraulic fluid.

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

The OMNI-A0221-01 is a low profile version of the OMNI-A0221 and is ideal for armed vehicles; however, it suffers from gain degradation at low frequency.

PRODUCT FEATURES:

- 20 to 3000 MHz frequency range
- Rugged and hard wearing
- Suited for vehicle-mount applications

APPLICATION:

- Improvised explosive device (IED) suppression
- Communications interception

RELATED PRODUCTS:

- OMNI-A0201

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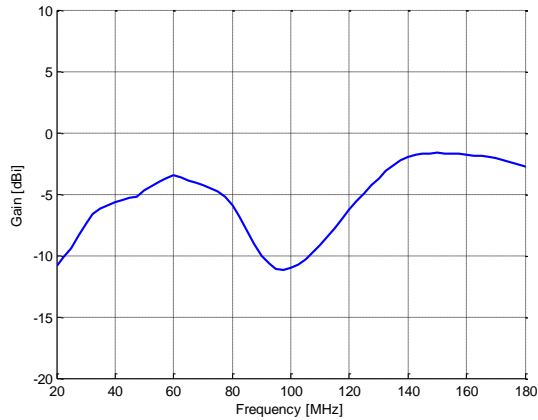
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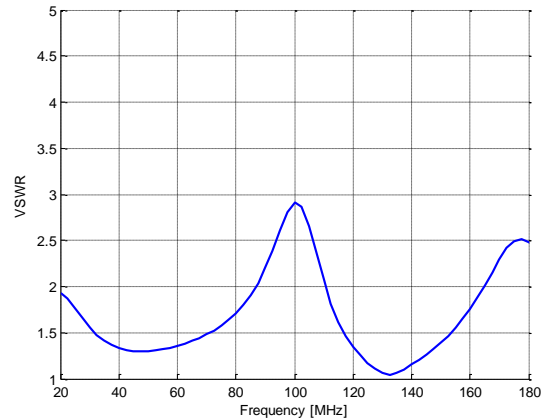
Typical gain:

Band A:

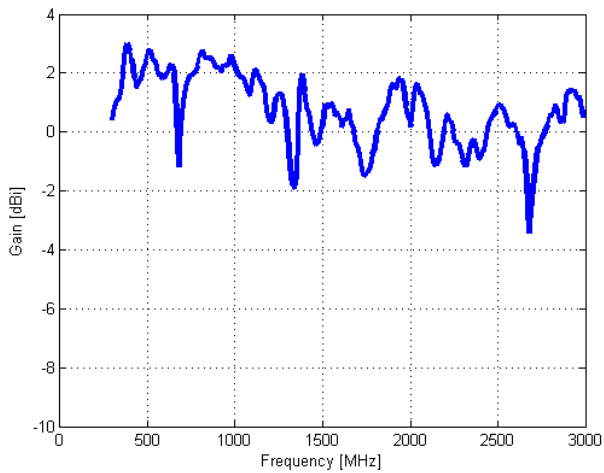


Typical VSWR:

Band A:



Band B:



Band B:

