Manpack Wireless Jamming Antenna

868 – 2500 MHz and 5400 - 5800 MHz

Product Code: OMNI-A0125

VERSION: 1.2

SPECIFICATIONS:

Electrical:	**Port A** main connector	**Port B** aux connector
Frequency range	868 – 960; 1700 – 2500 MHz	5.2 – 5.8 GHz
Gain	3 – 4 dBi in band	0 dBi
Azimuth pattern	Omni, 3 dB ripple	Omni, 2 dB ripple
Elevation pattern	Narrow beam, 10° down tilt	Dipole pattern
Polarisation	Vertical	Vertical
Nominal impedance	50 Ω	50 Ω
VSWR	< 2.5:1	< 2.0:1
Power handling	30 W CW	30 W CW
Connector	N-type male at base	N-type male on cable
Port to port isolation	> 15 dB	
DC resistance	10 kΩ for antenna detection (can be specified)	
Mechanical:		
Dimensions	Length 555 mm. Diameter 35 mm	
Total mass	0.5 kg	
Mounting	On N-type connector at base	
Colour	Black, others on request	
Environmental:		
Temperature range	Storage: -41 °C to +71 °C. Operation -31 °C to +55 °C	
Weatherproofing	IP66 water resistant (when mounted on a connector)	
Shock and vibration	MIL-STD-810E 516.4: vibration category 8, shock 40 g	
Exposed materials	Painted fibreglass. Powder-coated aluminium.	

PRODUCT FEATURES:

- High gain communications jamming antenna
- Covers all handheld wireless bands
- Proven flexible base spring protects the antenna
- 5 GHz port for Wi-Fi 5 coverage

APPLICATION AREAS:

- Manpack jamming systems
- Wideband monitoring
- Dismounted force protection
- Carry-forward jamming solutions

PRODUCT OVERVIEW:

This banded-antenna is for jamming of wireless communications. It is mounted on an N-type connector base, with a spring for shock absorption and flexibility. A glass-fibre tube contains the antenna RF board.

The main array covers the GSM 900, PCS, UMTS/3G and WLAN bands. Full-specification coverage starts at 868 MHz, but there will is reduced performance down to 500 MHz. A 2-stack array of multi-band dipoles is used to provide gain at these frequencies, with a small down tilt to improve close-in coverage.

An internal 5.2 to 5.8 GHz dipole is accommodated at the top of the radome. A separate connector extends on a cable from the base of the antenna, for connection to the 5 GHz port of the jammer manpack.

The lowest feed point is elevated about 250 mm from the base of the antenna, allowing the signal to be radiated over user's head. This reduces absorbed power and increases field strength at the target.

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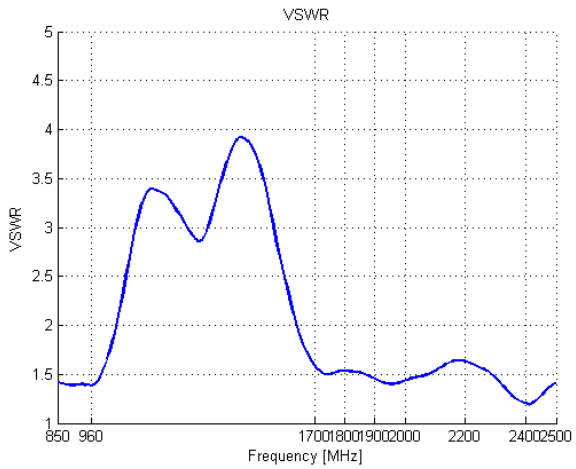
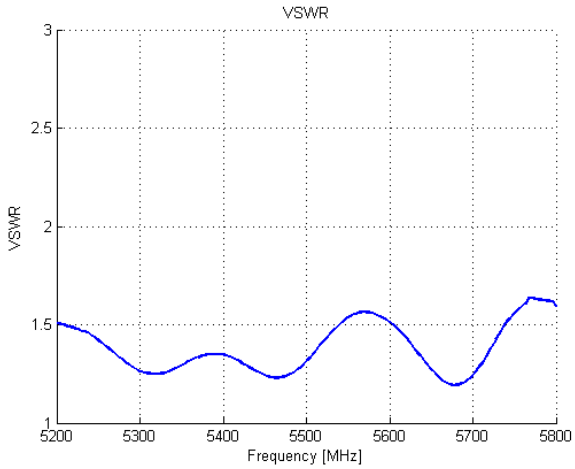
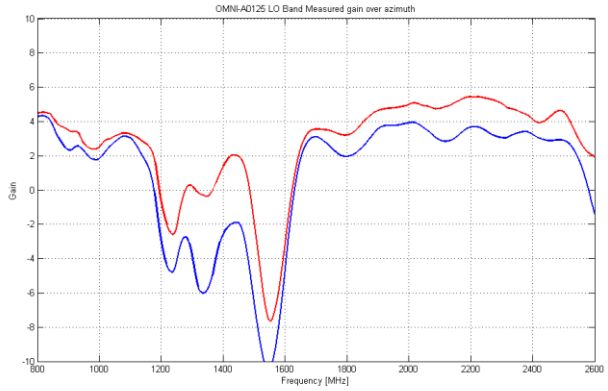
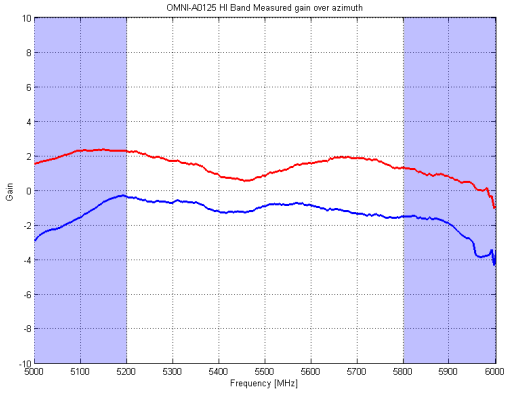
VSWR





Gain





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