

Manpack VHF Jamming Antenna

20 – 500 MHz

Product Code: OMNI-A0167

VERSION: 1.3

SPECIFICATIONS:



Electrical:	
Frequency range	20 – 500 MHz
Gain	See graph
VSWR	< 3.5:1
Nominal impedance	50 Ω
Azimuth pattern	Omni-directional
Elevation pattern	See graph
Power handling	30 W CW
DC resistance	Short circuit
Connector	N-type male at base
Ground plane	Required, 400 mm x 200 mm x 500 mm Manpack recommended
MTBF	15,000 hours
Mechanical:	
Dimensions (L x D)	650 mm x 40 mm
Total mass	0.4 kg
Mounting	On connector at base
Colour	Black, others on request
Environmental:	
Temperature range	Storage: -30 °C to +70 °C Operation -30 °C to +55 °C
Weatherproofing	IP 66 rain resistant (when mounted on a connector)
Shock and vibration	MIL-STD-810E 516.4: Vibration category 8, shock 40 g
Exposed materials	Painted aluminium and stainless steel. Black pigmented plastic Painted e-glass

PRODUCT FEATURES:

- High efficiency VHF antenna
- Full-band coverage, takes the place of 2 regular jamming antennas

APPLICATION AREAS:

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

PRODUCT OVERVIEW:

This wideband manpack antenna covers the full VHF band with some extension to 20 MHz and 500 MHz. It is mounted on an N-type connector base, with a matching unit at the base. By covering the full VHF band in 1 antenna, it replaces 2 conventional jamming antennas, reducing clutter and visual signature on the manpack system.

The antenna uses a bending mechanism that allows the antenna to bend back when passing underneath low overhangs without causing damage to the antenna or injury to the user.

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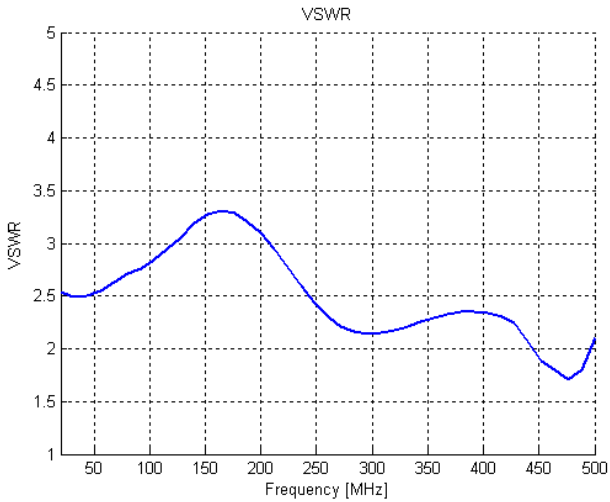
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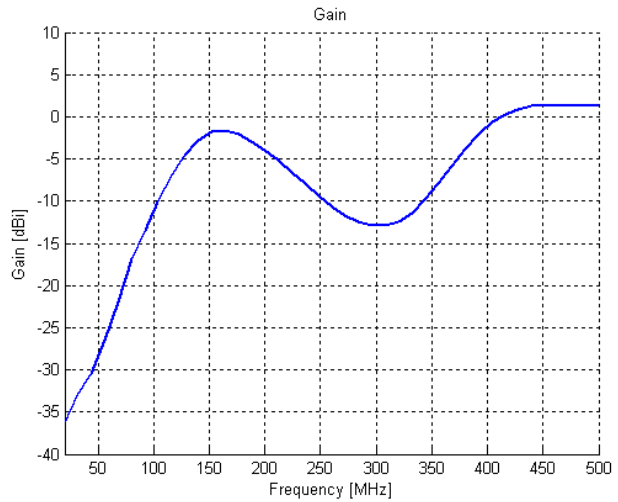
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VSWR AND GAIN GRAPHS:

Typical VSWR

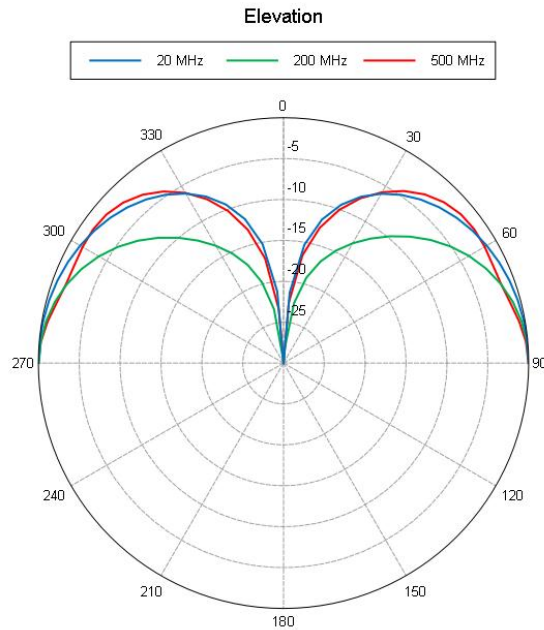


GAIN



Radiation patterns

E-plane



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H-plane

