

Mobile S-Band Antenna

2000 – 2500 MHz

Product Code: OMNI-A0089

VERSION: 3.6



SPECIFICATIONS:

Electrical:	
Frequency range	2000 – 2500 MHz
VSWR	< 2.5:1
Nominal input impedance	50 Ω
Connector	N-type male
Feed power handling	50 W
Gain (max)	5 dBi
Gain (min over the band)	3 dBi
E-plane 3 dB beamwidth	35° (± 7°)
Azimuth ripple	<1.5 dB peak-to-peak
Polarisation	Vertical
Mechanical:	
Diameter	35 mm
Total height	460 mm
Weight (antenna)	< 0.4 kg
Mounting method	N-type male connector
Colour	Matt black
Environmental: designed to meet the following specifications	
Wind survival	120 km/h
Temperature (operational)	-40 °C to +70 °C
Shock	MIL-STD-810F, Method 516.5 Procedure I

PRODUCT DESCRIPTION:

The OMNI-A0089 is a manpack high gain wideband antenna, for the 2000 to 2500 MHz frequency range. With its rugged construction, flexible base spring and high feed power handling, it is suitable for the most demanding applications. A collinear design is used for the antenna element, giving it significant gain over simple dipole designs.

PRODUCT FEATURES:

- Flexible base allows antenna to bend up to 70° under obstacles
- Wideband coverage: 2000 to 2500 MHz
- High gain, 4 dBi typical
- 50 W input power handling
- Radiating element above wearer's head

APPLICATIONS:

- Mobile communications
- Intercept and monitoring
- Manpack/mobile/portable— convoy protection

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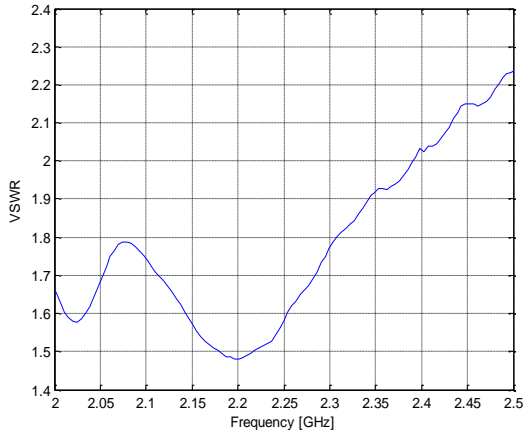
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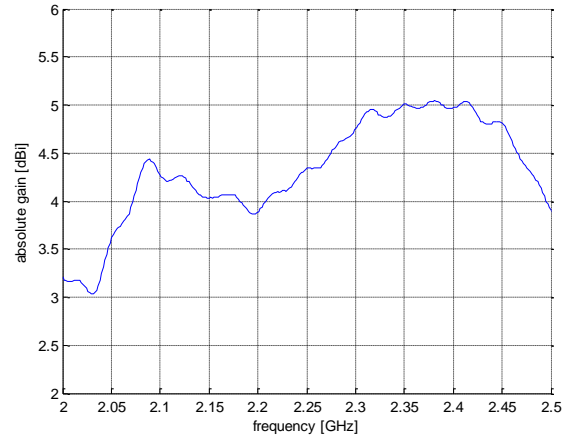
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VSWR AND GAIN GRAPHS:

Measured VSWR:

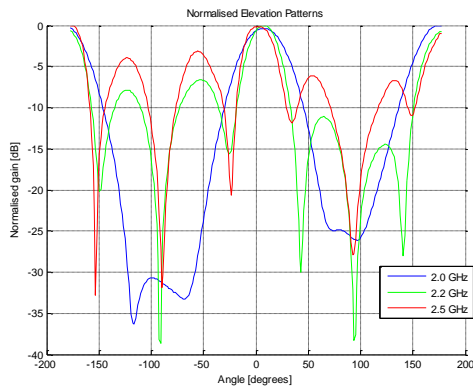


Measured gain:



Normalized radiation patterns:

Elevation (E-plane):



Azimuth (H-plane):

