

Mobile S-Band Antenna

2000 – 2500 MHz

Product Code: OMNI-A0089

VERSION: 3.5



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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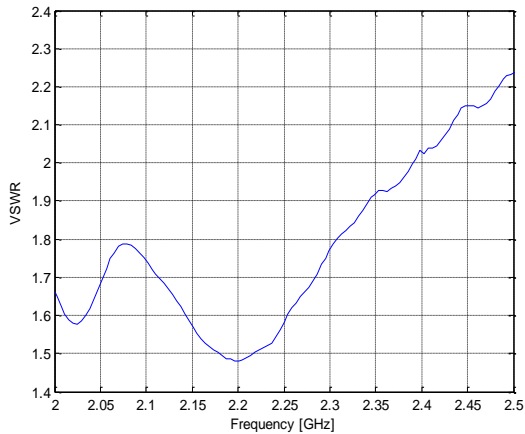
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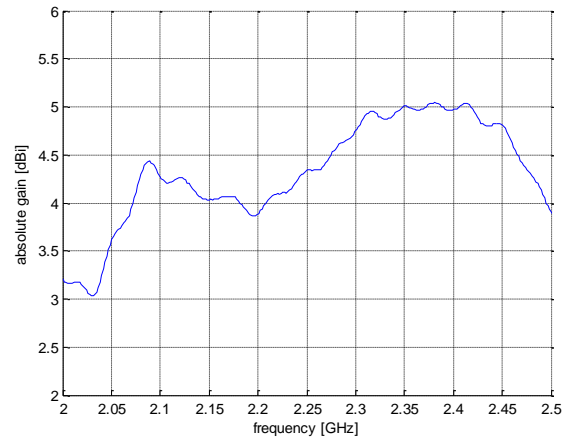
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VSWR AND GAIN GRAPHS:

Measured VSWR:

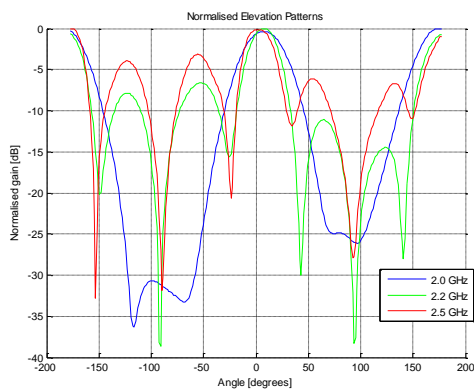


Measured gain:

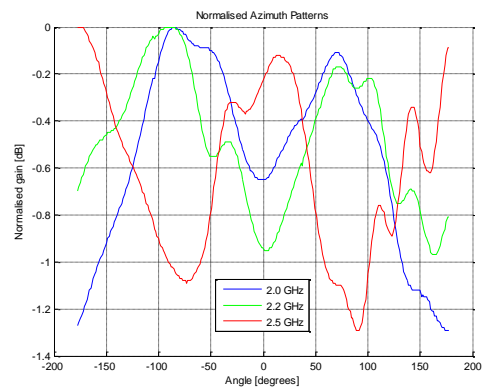


Normalized radiation patterns:

Elevation (E-plane):



Azimuth (H-plane):



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GAIN THE ADVANTAGE