



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	450 mm
Weight (antenna)	< 0.4 kg
Mounting method	N-Type male connector
Colour	Matt black
Environmental:	
Wind survival	120 km/h
Temperature (operational)	-40 °C to +70 °C
Shock	20 G for 10 ms
Water ingress rating	MIL-STD-820F (506.4)

PRODUCT DESCRIPTION:

The OMNI-A0089 is a man-pack 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 military and commercial 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
- Man-pack/mobile/portable– convoy protection

Mobile S-Band Antenna

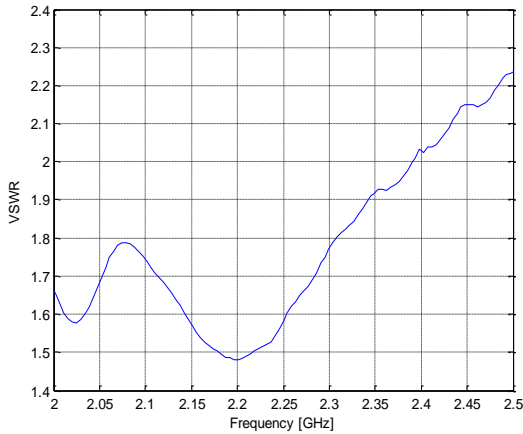
2000 – 2500 MHz

Product Code: OMNI-A0089

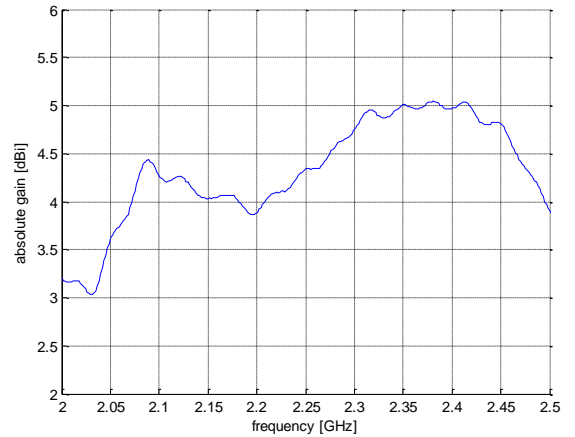
VERSION: 3.3

VSWR AND GAIN GRAPHS:

Measured VSWR

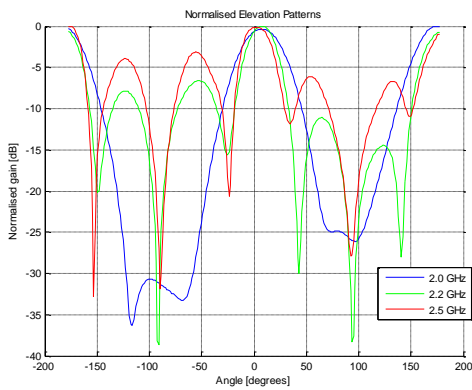


Measured gain



Normalized radiation patterns:

Elevation (E-plane)



Azimuth (H-plane)

