

SPECIFICATIONS:

Electrical:	
Frequency range	225 – 400 MHz
VSWR	< 2.5:1
Nominal input impedance	50 Ω
Connector	N-type female
Feed power handling	50 W
Gain (max)	2.5 dBi (± 0.5 dBi)
Gain (min over the band)	1 dBi (± 1 dBi)
E-plane 3 dB beamwidth	60° (± 15°)
H-plane 3 dB beamwidth	360°
Polarisation	Vertical
Azimuth ripple	± 1.5 dB
Mechanical:	
Height	1000 mm
Diameter	Base 150 mm, radiator 40 mm
Mounting method	NATO flange, 4 and 6 holes
Environmental:	
Wind survival	160 km/h
Temperature (operational)	- 31 °C to + 71 °C
Temperature (storage)	- 31 °C to + 51 °C
Shock	20 G at 10 ms
Thermal shock	- 30 °C to + 70 °C: 10 cycles
Water ingress rating	MIL-STD-820F (506.4)



PRODUCT FEATURES:

- Low VSWR (< 2.5) across the band
- Rugged construction
- Ground plane independent

APPLICATIONS:

- Ground-to-air voice and data communications including HAVE QUICK II and SATURN
- Monitoring ground-to-air communications
- Jamming ground-to-air communications

PRODUCT DESCRIPTION:

The OMNI-A0097 is an omni-directional vehicle-mount antenna for the 225 to 400 MHz UHF band. This band is typically used for military air-to-air and ground-to-air communications, including data links.

The antenna does not require a ground plane for proper operation, and is vehicle mounted using a standard NATO flange. It includes a heavy-duty spring, which makes it suitable for use over rough terrain.

The OMNI-A0097 is waterproof to IP65 and rated for the full mil-spec temperature range of -31 °C to +71 °C. It is finished in matt black as standard, but other finishes are available by special order.

Vehicle Mount UHF Antenna

225 – 400 MHz

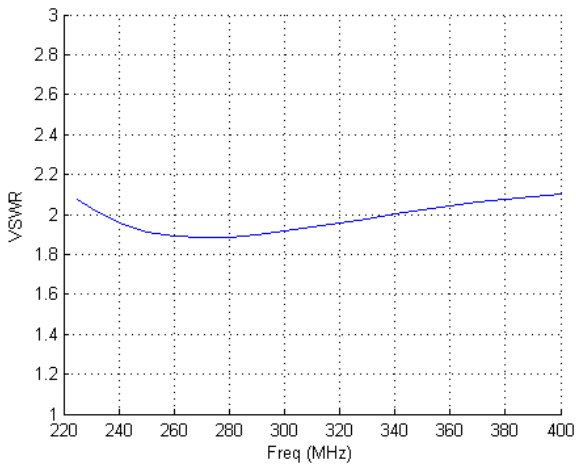
Product Code: OMNI-A0097



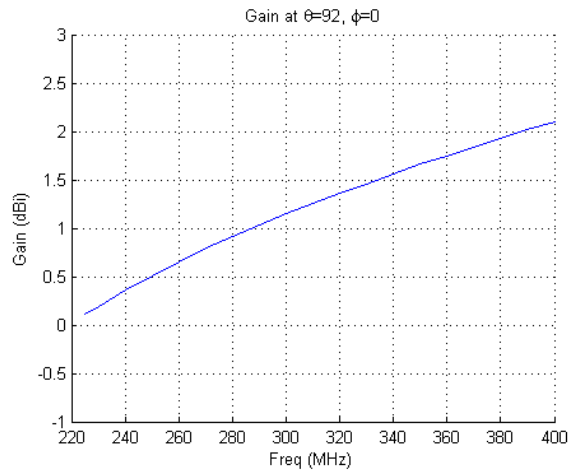
VERSION: 3.3

VSWR AND GAIN GRAPHS:

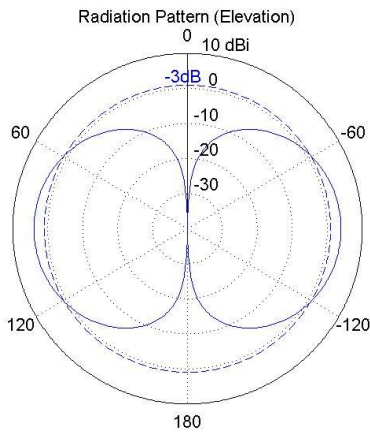
Typical VSWR



GAIN



E-PLANE



H-PLANE

