

SPECIFICATIONS:

Product code:	
OMNI-A0142	TNC (M) connector
OMNI-A0142-01	N-type (M) connector
Electrical:	
Frequency range	2000 – 2500 MHz
VSWR	< 2:1 (2050 – 2450 MHz) < 2.5:1 (2000 – 2050 MHz & 2450 – 2500 MHz)
Nominal input impedance	50 Ω
Feed power handling	20 W
Gain (min)	4 – 5 dBi
Polarisation	Vertical
Azimuth ripple	± 1 dB
Mechanical:	
Height	330 mm
Diameter	22 mm
Total mass	100 g
Colour	Black
Mounting method	Direct to connector
Groundplane requirement	Groundplane independent
Environmental: designed to meet the following specifications	
Wind survival	100 km/h
Temperature (operational)	-31 $^{\circ}$ C to +51 $^{\circ}$ C
Temperature (storage)	-31 $^{\circ}$ C to +71 $^{\circ}$ C
Vibration	MIL-STD-167-1 type 1
Shock	20 G / 10 mS X,Y,Z axes
Water and dust resistance	MIL-STD-820F (506.4)

PRODUCT FEATURES:

- Collinear design gives better gain than dipole and monopole antennas
- Low VSWR across the band
- Rugged and lightweight

APPLICATIONS

- Wi-fi and data communications

PRODUCT DESCRIPTION:

The OMNI-A0142 is a wideband, high gain omni-directional antenna for use in the 2.0 to 2.5 GHz frequency range at high-power levels up to 20 W.

The OMNI-A0142 utilises a specially designed wideband collinear dipole array radiator with integrated balun, making it groundplane independent and suitable for use on any mounting platform, such as manpacks and mobile electronic devices, and providing higher gain than many competing antennas across the high frequency range in which it operates.

The radiator is mounted in the top half of the radome to mitigate radhaz. The antenna is designed and intended for use in extreme operational conditions.

High Gain S-Band Omni

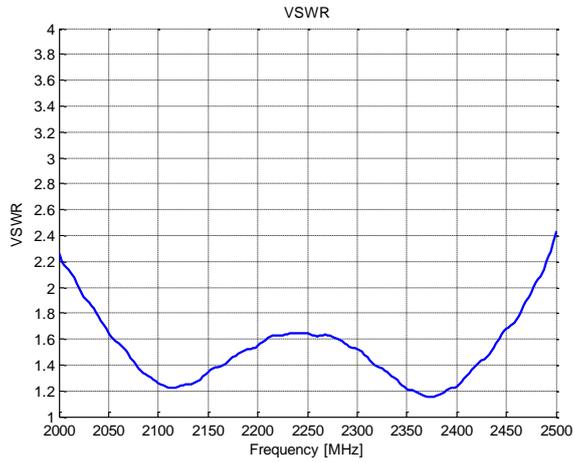
2.0 – 2.5 GHz

Product Code: OMNI-A0142

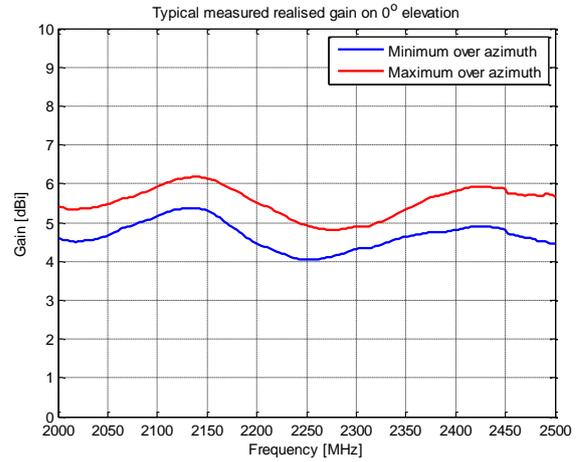
VERSION: 2.5

VSWR AND GAIN GRAPHS:

VSWR:



GAIN:



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