

# High Gain S-Band Omni

3.0 – 3.5 GHz

Product Code: OMNI-A0136

VERSION: 1.6

## SPECIFICATIONS:



<b>Product code:</b>	
OMNI-A0136	TNC (M) connector
OMNI-A0136-03	N-type (F) connector with mounting nut
<b>Electrical:</b>	
Frequency range	3000 – 3500 MHz
VSWR	< 2:1
Nominal input impedance	50 Ω
Feed power handling	20 W
Gain (typical)	4 – 5 dBi
Polarisation	Vertical
Azimuth ripple	±1 dB
<b>Mechanical:</b>	
Height	< 230 mm
Diameter	22 mm
Total mass	100 g
Colour	Black
Mounting method	Direct to connector
Groundplane requirement	Groundplane independent
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	100 km/h
Temperature (operational)	-31 °C to +51 °C
Temperature (storage)	-31 °C to +71 °C
Vibration	MIL-STD-167-1 type 1
Shock	20 G / 10 mS X,Y,Z axes
Water and dust resistance	MIL-STD-810F (506.4)

## PRODUCT FEATURES:

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

## APPLICATIONS:

- Communications

## PRODUCT DESCRIPTION:

The OMNI-A0136 is a wideband, high gain omni-directional antenna for use in the 3.0 to 3.5 GHz upper S-band frequency range at power levels up to 20 W.

The antenna utilises a collinear dipole array radiator with integrated balun, making it ground plane independent and suitable for use on any mounting platform, such as manpacks and mobile electronic devices. The antenna is designed and intended for use in extreme operational conditions.

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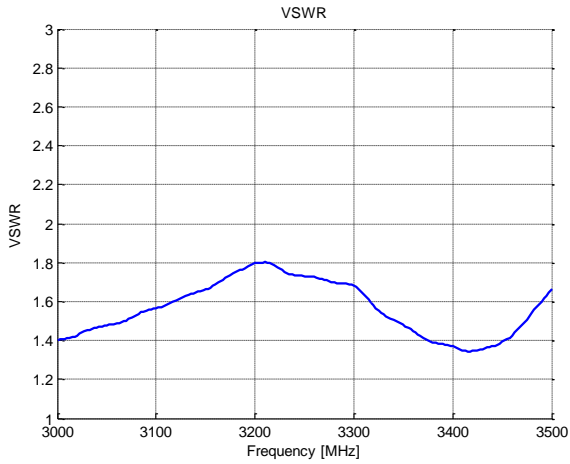
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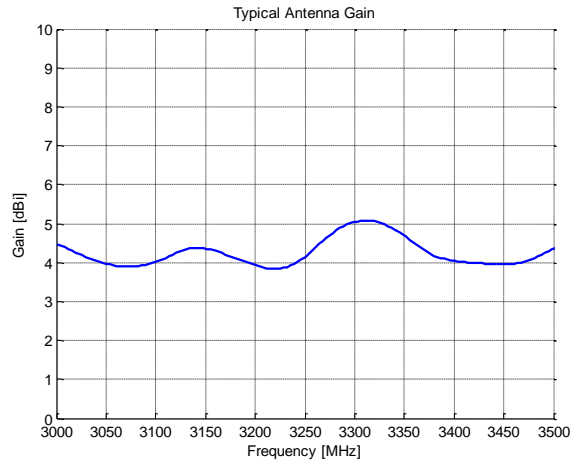
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## MEASURED VSWR AND GAIN GRAPHS:

### VSWR:



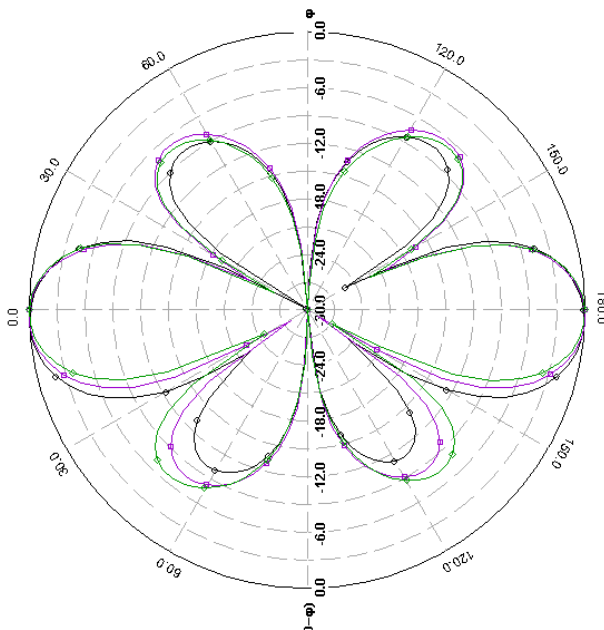
### GAIN:



## SIMULATED RADIATION PATTERNS:

### E – PLANE:

- f=3.0GHz, E-total, phi=90 (deg)
- f=3.25GHz, E-total, phi=90 (deg)
- ◇ f=3.5GHz, E-total, phi=90 (deg)



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**GAIN THE ADVANTAGE**