

**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                       |
| 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:**

- 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.

# High Gain S-Band Omni

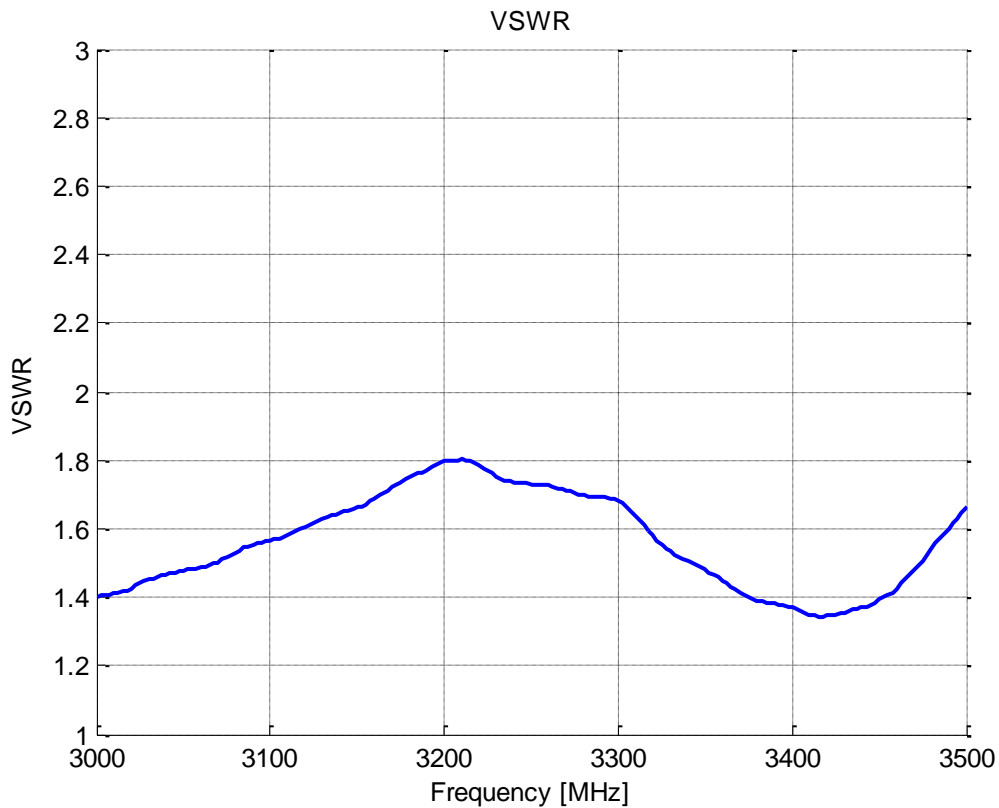
3.0 – 3.5 GHz

Product Code: OMNI-A0136

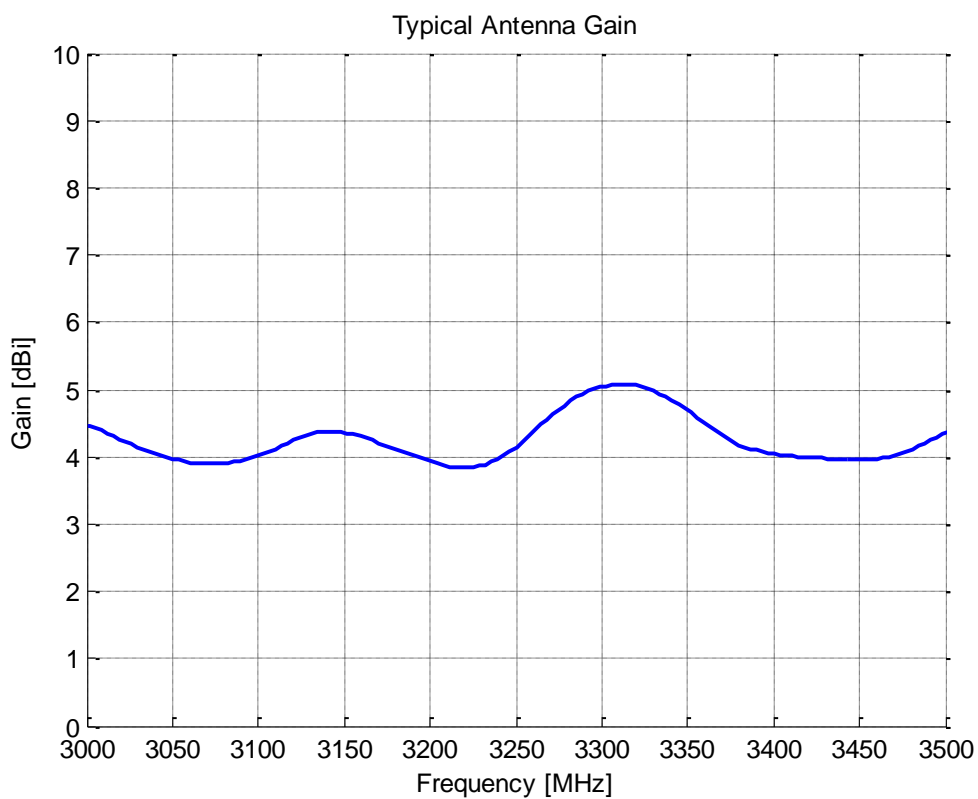
VERSION: 1.8

## MEASURED VSWR AND GAIN GRAPHS:

### VSWR:



### GAIN:



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3.0 – 3.5 GHz

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## SIMULATED RADIATION PATTERNS:

### E – PLANE:

- f=3(GHz), E-total, phi=90 (deg)
- f=3.25(GHz), E-total, phi=90 (deg)
- ◇— f=3.5(GHz), E-total, phi=90 (deg)

