# High Gain C-Band Omni

## 4.4 – 5.0 GHz
## Product Code: OMNI-A0137

**GAIN THE ADVANTAGE**

**SPECIFICATIONS:**

| Product code: | |
|---|---|
| OMNI-A0137 | TNC (M) connector |
| OMNI-A0137-01 | N-type (M) connector |
| | |

| Electrical: | |
|---|---|
| Frequency range | 4400 – 5000 MHz |
| VSWR | < 2:1 |
| Nominal input impendence | 50 Ω |
| Feed power handling | 10 W |
| Gain (typical) | 4 – 5 dBi |
| Polarisation | Vertical |
| Azimuth ripple | ±1 dB |
| | |

| Mechanical: | |
|---|---|
| Height | 180 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 ⁰C to +51 ⁰C |
| Temperature (storage) | -31 ⁰C to +71 ⁰C |
| 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:**
- Communications

**PRODUCT DESCRIPTION**:
The OMNI-A0137 is a wideband, high gain omni-directional antenna for use in the 4.4 to 5.0 GHz frequency range at high-power levels up to 10 W.

The OMNI-A0137 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 antenna is designed and intended for use in extreme operational conditions.
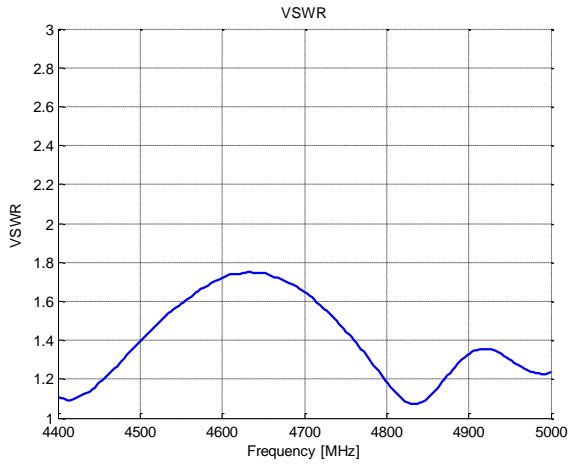
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**VSWR AND GAIN GRAPHS:**

**VSWR:**



**GAIN:**

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