

Wideband Manpack High-Power Antenna

420 – 2700 MHz

Product Code: OMNI-A0148

VERSION: 1.3



SPECIFICATIONS:

| Electrical: | |
|---|---|
| Frequency range | 420 – 2700 MHz |
| Gain | 1 dBi typical (in band) |
| Azimuth pattern | Omni, 1 dB ripple |
| Polarisation | Vertical |
| Nominal impedance | 50 Ω |
| VSWR | < 2.5:1 or better |
| Power handling | 20 W CW |
| Connector | N-type male at base |
| Mechanical: | |
| Dimensions (l x d) | 650 mm x 40 mm |
| Total mass | 0.5 kg |
| Mounting | On N-type connector at base |
| Colour | Black, others on request |
| Environmental: designed to meet the following specifications | |
| Temperature range | Storage: -41 °C to +71 °C Operation -31 °C to +55 °C |
| Weatherproofing | IP66 water resistant (when mounted on a connector) |
| Shock and vibration | MIL-STD-810E 516.4: Vibration category 8, shock 40 g |
| Exposed materials | Polymer |

PRODUCT OVERVIEW:

The OMNI-A0148 is a vertically polarised wideband omnidirectional antenna with low VSWR and high-power handling for operation in the 420 to 2700 MHz frequency range.

PRODUCT DESCRIPTION:

The OMNI-A0148 is based on a bicone radiator, requiring no additional ground plane for operation. The antenna is integrated into our high strength durable polymer housing which provides excellent operational performance advantages including low visibility, quiet impact noise and flexibility for dealing with obstructions such as door frames and low hanging branches.

The antenna is provided with an N-connector mounted on the base of the antenna for direct mounting to the structure or manpack used.

PRODUCT FEATURES:

- Wideband operation
- High-power handling
- Low VSWR

APPLICATION AREAS:

- Manpack and vehicular signal interception
- Manpack and vehicular communications
- Manpack and vehicular monitoring

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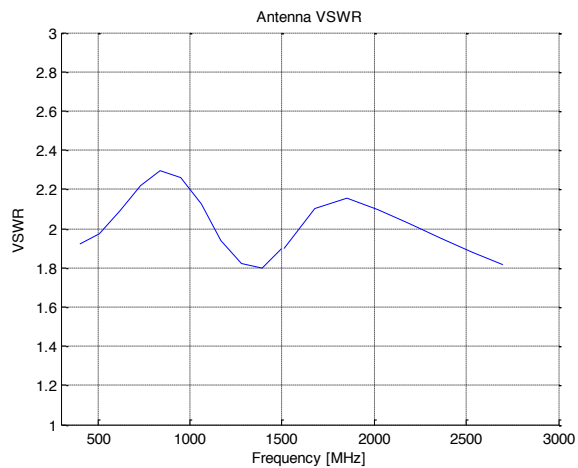
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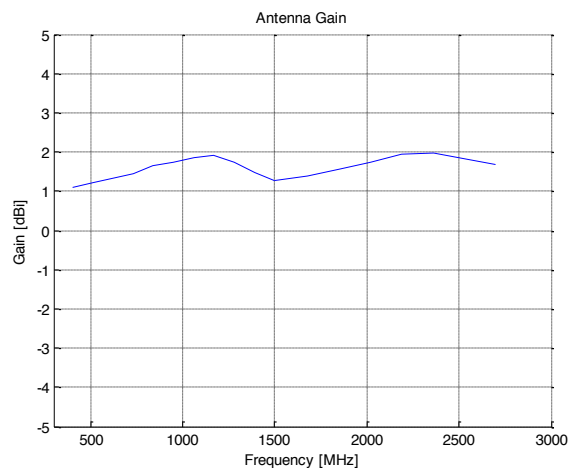
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Measured VSWR and gain graphs:

Typical VSWR:



GAIN:



Elevation pattern (normalised):

Elevation Pattern - OMNI-A0148

