

Powertec Wideband 4G & IoT Bulkhead Antenna, 700 to 2700 MHz

MPN: VDIP-6927-2.N2

Description

VDIP-6927-2.N2 is a wideband 4G LTE antenna that covers cellular frequencies in the range from 700 to 2700 MHz. In addition to 3G and 4G wireless applications, the antenna covers IoT technologies such as LoRa, and others using unlicensed bands such as 868 and 915 MHz. ISM 2.4 GHz WiFi and Bluetooth 3.0 are also fully supported.

The model has a 1.5 dBi gain on the lower 698 to 960 MHz range and 2.5 dBi gain on the upper 1710 to 2700 MHz range. These peak gain figures are ideal for maintaining a near-spherical radiation pattern, very important for use in IoT, machine telemetry, and metering applications.

This antenna has a robust construction, machined from stainless steel and with an impact resistant plastic radome. Mounting can be achieved through the antenna's stainless steel N Female bulkhead connector, or by using the supplied stainless steel pole / wall mount bracket.

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Powertec

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RF Specification

| | | | |
|-------------------|----------|------------------|--------------|
| Start Frequency: | 698 MHz | Polarisation: | Vertical (V) |
| Stop Frequency: | 2700 MHz | Input Impedance: | 50 |
| Max. Input Power: | 20 W | | |

RF Connectors

| Ports | RF Interface | Body Shape |
|-------|--------------|------------|
| 1 | N Female | Straight |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR | Elevation |
|-------------|------------|-----------|---------|-----------|
| 698 MHz | 960 MHz | 1.5 dBi | < 2.5:1 | 100° |
| 1695 MHz | 2200 MHz | 2.5 dBi | < 2.5:1 | 90° |
| 2300 MHz | 2700 MHz | 2.5 dBi | < 2.5:1 | 90° |

Physical Specification

| | | | |
|-----------------------------|----------|----------------------------|---|
| Subtype: | Dipole | Dimensions: | 247 x 20 x 20 |
| Input Ports: | 1 | Materials: | Polycarbonate (PC), Stainless Steel (304) |
| MIMO: | 1x1 SISO | Mounting: | Pole Clamp 25 to 41 mm |
| Min. Operating Temperature: | -40 °C | Compliance/Certifications: | ISO 9001 Quality Management |
| Max. Operating Temperature: | 85 °C | | |

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