

617 MHz to 4200 MHz, 3 to 5 dBi, 2x2 MIMO Omni Antenna, 2 port RG58 pigtail with N Female Connector

## KP-600-DPOMA-3-NF



### Features

- 600 MHz to 4200 MHz (Extended CBRS) functionality
- Outdoor rated omnidirectional antenna
- 2 ports for 2x2 MIMO applications
- Type N Female connectors

### Applications

- 4G 5G Networks, Public or Private
- 600 MHz, 700 MHz, 850 MHz, 900 MHz, 1800 MHz, 1900 MHz, 2100 MHz, 2600 MHz, 3500 MHz
- IoT, Cellular, Zigbee, Zwave, Bluetooth

### Description

The KP Performance KP-600-DPOMA-3-NF 5G 2x2 MIMO Omnidirectional Antenna is a high performance, compact and lightweight antenna which ships same day. This omnidirectional antenna is designed for 2x2 MIMO performance in the 600 MHz to 4200 MHz bands. This includes frequencies owned by all major global cellular operators and includes the extended CBRS band. The antenna features two N Type female connectors on RG58 pigtails. The N female connectors allow the antenna to be mounted to a radio or terminal with a coaxial jumper and provides flexibility of mounting location. KP Performance's KP-600-DPOMA-3-NF with an omni-directional pattern is ideally suited for 4G, 5G, LTE and other sub 6 GHz Cellular bands in both private and public networks.

The KP Performance 5G high performance omnidirectional KP-600-DPOMA-3-NF is a flexible antenna providing broad coverage and 3 to 5 dBi gain. It is suitable as for any network using sub 6 GHz 5G bands including 600, 700, 800, 850, 900, 1800, 1900, 2100, 2300, 2600, 3500, 4200 MHz bands. The KP Performance KP-600-DPOMA-3-NF is UV protected and rated for outdoor use.

The KP-600-DPOMA-3-NF Cellular antenna just like our wide selection of superior quality RF parts, ship same day. Contact the KP Performance friendly and knowledgeable staff for your answers on any of our antennas.

### Configuration

|                   |                  |
|-------------------|------------------|
| Design            | Omni             |
| Band Type         | Multi            |
| Radiation Pattern | Omni Directional |
| Polarization      | Vertical         |
| Cable Length      | 12 in [304.8 mm] |
| Connector Type    | N Female         |

### Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 617     |         | 4200    | MHz   |
| Input VSWR      |         |         | 2:1     |       |
| Impedance       |         | 50      |         | Ohms  |
| Input Power     |         |         | 50      | Watts |

### Specifications by Band

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[617 MHz to 4200 MHz, 3 to 5 dBi, 2x2 MIMO Omni Antenna, 2 port RG58 pigtail with N Female Connector KP-600-DPOMA-3-NF](#)

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| Description     | Band 1    | Band 2      | Band 3 | Band 4 | Band 5 | Units   |
|-----------------|-----------|-------------|--------|--------|--------|---------|
| Range           | 617-1,710 | 1,710-4,200 |        |        |        | MHz     |
| Gain            | 3         | 5           |        |        |        | dBi     |
| Horizontal HPBW | 360       | 360         |        |        |        | Degrees |
| Vertical HPBW   | 70        | 35          |        |        |        | Degrees |

**Mechanical Specifications**

|                        |                                     |
|------------------------|-------------------------------------|
| Radome Material        | UV resistant PVC                    |
| <b>Size</b>            |                                     |
| Length                 | 17.7 in [449.58 mm]                 |
| Width                  | 3 in [76.2 mm]                      |
| Height                 | 3 in [76.2 mm]                      |
| Mounting Mast Diameter | 1.57 to 1.96 in [39.88 to 49.78 mm] |
| Weight                 | 2.64 lbs [1.2 kg]                   |

**Environmental Specifications**

|                    |                      |
|--------------------|----------------------|
| <b>Temperature</b> |                      |
| Operating Range    | -40 to +70 deg C     |
| Wind Survivability | 134 MPH [215.65 KPH] |
| Humidity           | 5 to 95 %            |

**Plotted and Other Data**

Notes:

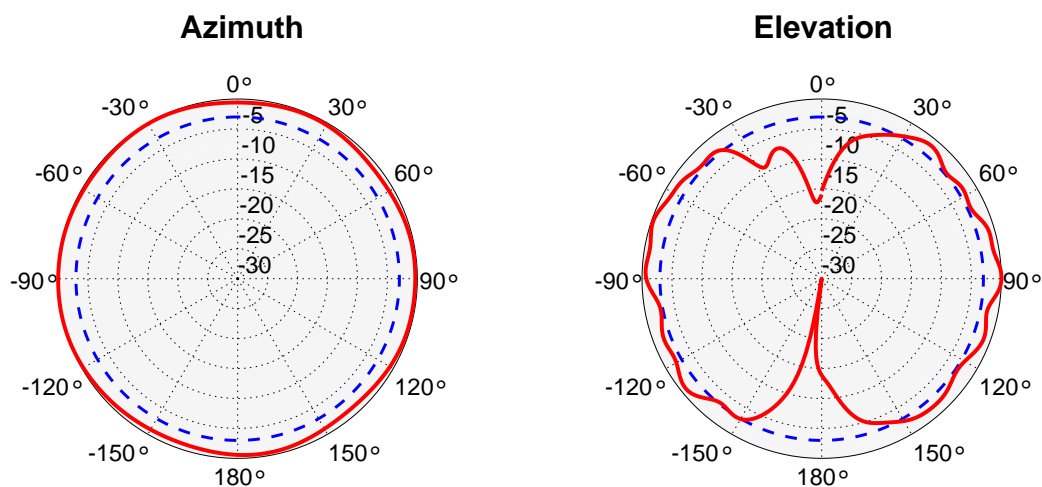
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
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**Radiation Patterns of 806 MHz**



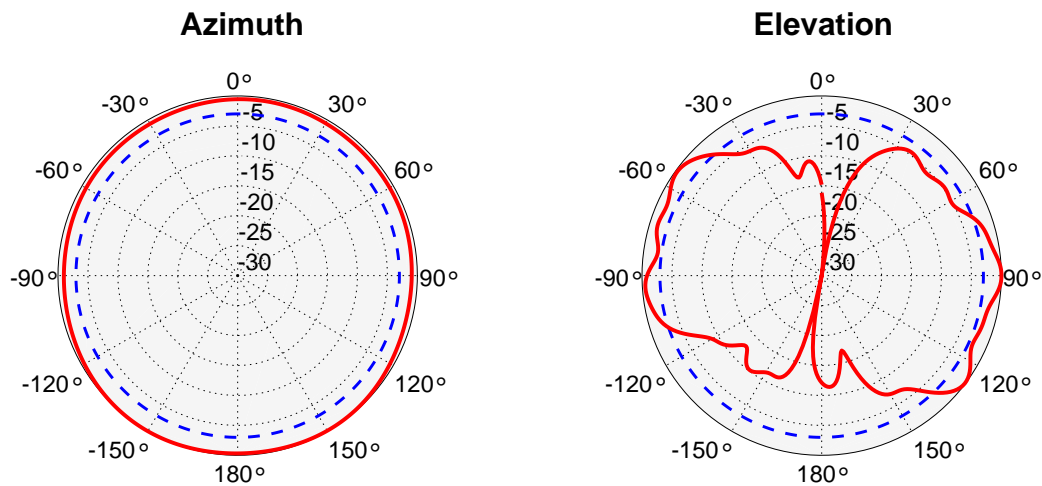
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
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### Radiation Patterns of 2170 MHz



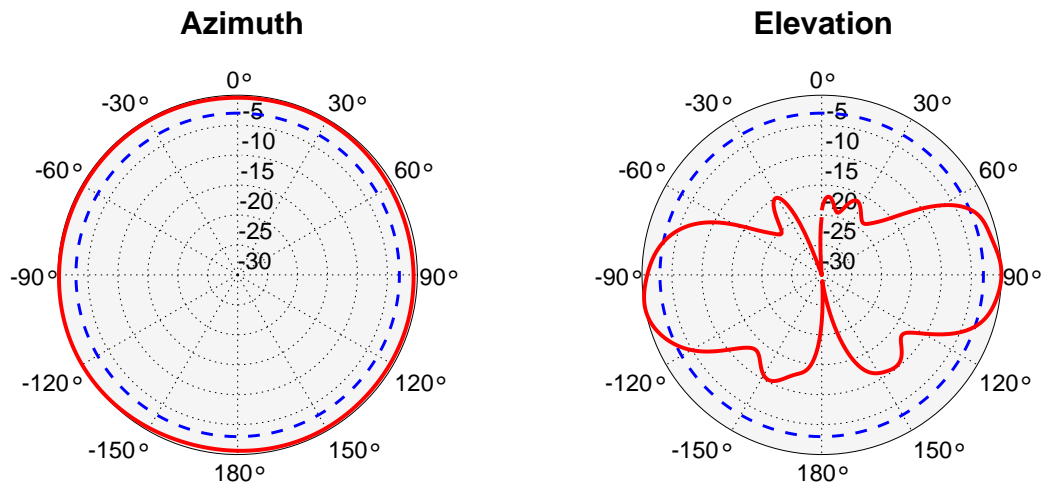
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
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### Radiation Patterns of 3800 MHz



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**Appendix**

**Electrical Downtilt:** Angle in the antenna's elevation pattern in which the maximum gain occurs.

**Gain:** Antenna's average gain.

**Front to Back Ratio @ 180°±30°:** Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

**Cross-polarization Ratio (dB):** Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

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URL: <https://www.kpperformance.com/2.4-ghz-2.5-ghz-5.1-ghz-7.1-ghz-2.5-3.5-dbi-wifi-6e-tilt-swivel-rubber-duck-antenna-sma-male-connector-hg247103rd-sm-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. KP Performance reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. KP Performance does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and KP Performance does not assume liability arising out of the use of any part or document.

KP-600-DPOMA-3-NF CAD Drawing

