

2.4 GHz to 2.5 GHz + 5.1 GHz to 7.2 GHz, 6 dBi, 6x6 MIMO Omni Antenna, 6 port RG58 pigtail with RP-SMA Male Connector

KP-26-6POMA-6-RSP



Features

- Reverse Polarity SMA (RP-SMA) Male Connector
- 6 x Vertical Polarization
- 6x6 MIMO Functionality
- Outdoor Rated Omnidirectional Antenna
- 2.4 GHz, 5 GHz, 6 GHz WiFi Bands
- 6 dBi gain

Applications

- Infotainment systems, Routers, WiFi hotspots, HD video transmission, Gateways, Dash cameras, Public transportation
- WiFi 6e (802.11ax) networks
- Connected cars or self-driving cars, Fleet management, Logistics
- Public Safety Networks
- IoT, Industrial IoT, Zigbee, Bluetooth, WiFi

Description

The KP Performance KP-26-6POMA-6-RSP WiFi 6e 6x6 MIMO Omni Antenna is a high performance omnidirectional antenna designed for the 2400 MHz to 7125 MHz bands and is available to ship same day. It is a UV protected, outdoor rated antenna with omnidirectional pattern. It features 6 (six) pigtailed terminated with Reverse Polarity SMA (RP-SMA) Male connectors for 6x6 MIMO applications. The KP-26-6POMA-6-RSP is ideally suited for 802.11 protocols including 802.11ax as well as IoT, Zigbee and Bluetooth.

The KP Performance high performance omni KP-26-6POMA-6-RSP is a rugged antenna providing broad coverage, low latency, increased network capacity and 6 dBi gain. This RP-SMA male omnidirectional antenna is suitable for commercial radios and access points in public and private networks that are equipped with RP-SMA female connectors. KP Performance's KP-26-6POMA-6-RSP supports 2.4, 5 and 6 GHz bands.

The KP-26-6POMA-6-RSP WiFi 6e omni antenna with 6 RP-SMA male connectors, as well as our wide selection of superior quality RF parts, ships same day. Contact the KP Performance friendly and knowledgeable staff for your answers on any of our antennas.

Configuration

| | |
|-------------------|---------------------------|
| Design | Omni |
| Band Type | Dual |
| Radiation Pattern | Omni Directional |
| Polarization | Vertical |
| Cable Type | RG58/U |
| Connector Type | SMA Male Reverse Polarity |

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 2.4 | | 7.25 | GHz |
| 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: [2.4 GHz to 2.5 GHz + 5.1 GHz to 7.2 GHz, 6 dBi, 6x6 MIMO Omni Antenna, 6 port RG58 pigtail with RP-SMA Male Connector KP-26-6POMA-6-RSP](#)

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| Description | Band 1 | Band 2 | Band 3 | Band 4 | Band 5 | Units |
|-----------------|-------------|-------------|--------|--------|--------|---------|
| Range | 2,400-2,500 | 5,150-7,250 | | | | MHz |
| Bandwidth | 100 | 2100 | | | | MHz |
| Gain | 6 | 6 | | | | dBi |
| Horizontal HPBW | 360 | 360 | | | | Degrees |
| Vertical HPBW | 45 | 30 | | | | Degrees |

Mechanical Specifications

| | |
|------------------------|-------------------------------------|
| Radome Material | UV Resistant ABS |
| Size | |
| Length | 7.1 in [180.34 mm] |
| Width | 5.94 in [150.88 mm] |
| Height | 5.94 in [150.88 mm] |
| Mounting Mast Diameter | 1.57 to 1.96 in [39.88 to 49.78 mm] |
| Weight | 3.52 lbs [1.6 kg] |

Environmental Specifications

| | |
|--------------------|----------------------|
| Temperature | |
| Operating Range | -40 to +70 deg C |
| Wind Survivability | 124 MPH [199.56 KPH] |
| Humidity | 5 to 95 % |

Plotted and Other Data

Notes:

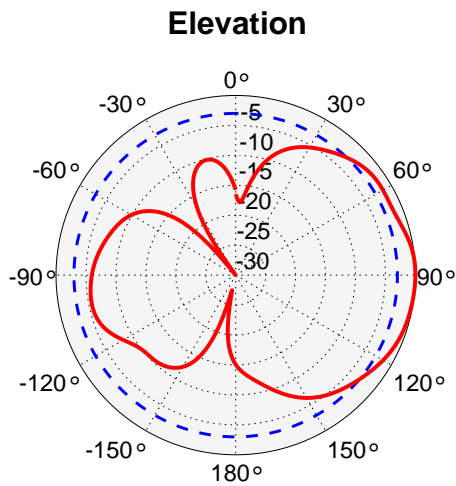
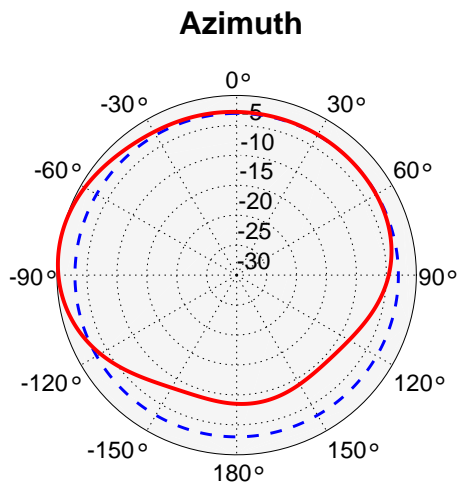
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Radiation Patterns of 2450 MHz



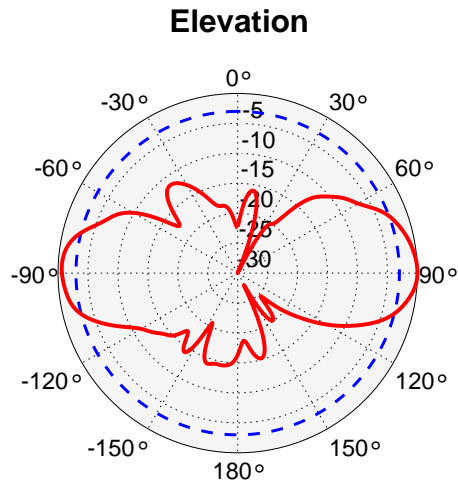
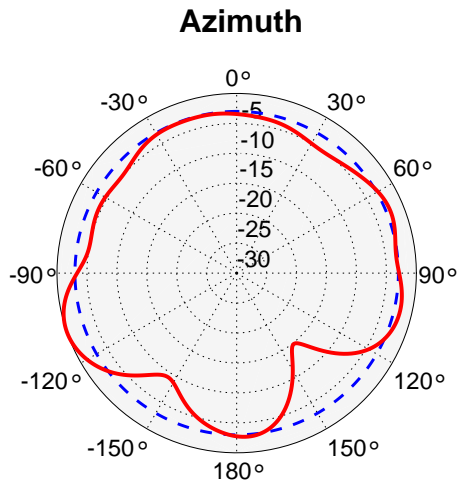
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Radiation Patterns of 5550 MHz



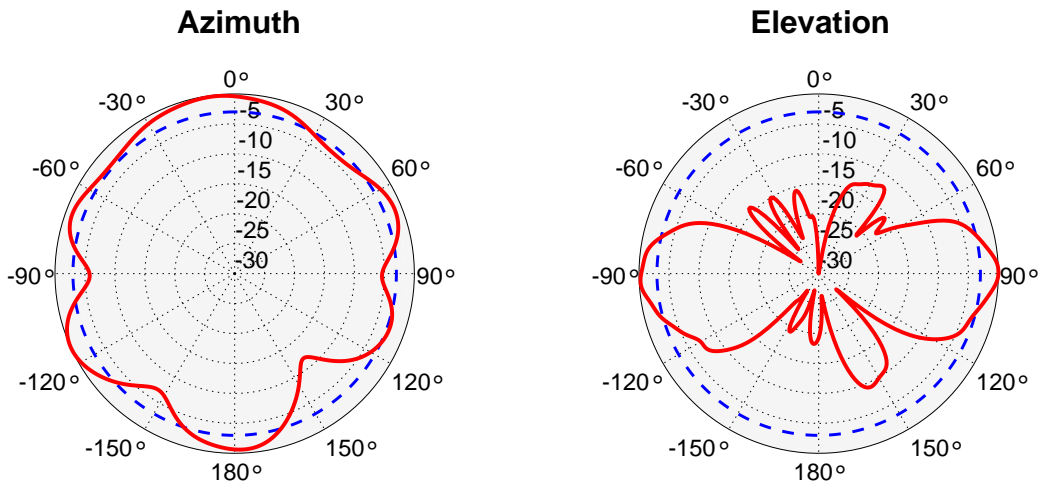
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Radiation Patterns of 6500 MHz



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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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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.

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KP-26-6POMA-6-RSP CAD Drawing

