

380 to 520 MHz + 698 to 960 MHz + 1710 to 2700 MHz + 3300 to 3700 MHz + 4900 to 6000 MHz Low PIM Ceiling Mount DAS Antenna, Type N Female

KP-400-SPCUPR-4-NF



Features

- Low Passive Intermodulation (PIM) <-150 dBc @ 2x20W
- Vertical Polarization
- Compact and lightweight for indoor or outdoor use
- 4.3-10 Female connector for long lasting consistent results
- Covers 5G, WiFi and LTE frequency bands including extended CBRS

Applications

- Indoor distribution of 5G, LTE, GSM/CDMA
- In-building public or private networks
- LPWAN, LoRA, LTE-M, NB-IoT, IoT, M2M applications
- MIMO DAS (Distributed Antenna Systems)
- Indoor or Outdoor Applications

Description

The KP Performance KP-400-SPCUPR-4-NF is a low PIM rated, high performance ceiling mount omni directional antenna specifically designed for in-building wireless networks such as DAS (Distributed Antenna Systems). KP Performance’s KP-400-SPCUPR-4-NF has 2 to 6.4 dBi gain and can be used to distribute Cellular and WiFi signals throughout a building or area.

The KP-400-SPCUPR-4-NF from KP Performance has directional patterns with vertical polarization and 360 degree omni directional coverage in horizontal direction features Type N connector. The key to providing the best performance in telecommunications is to ensure the components used are low PIM rated. This helps meet the increasing demand for higher data rates and the ability to provide streaming video for mobile devices. With a low PIM rating of <-150 dBc, the 380-6000 MHz KP-400-SPCUPR-4-NF helps meets the most demanding PIM requirements for 5G and LTE/4G bands. The KP-400-SPCUPR-4-NF operates from 380 to 6000 MHz which is ideal for WiFi6e, Sub 6GHz, 5G, LTE, CDMA, LPWAN/IoT/M2M applications including LoRA, LTE-M, and NB-IOT. The Multi-Band design of the KP Performance KP-400-SPCUPR-4-NF antenna eliminates the need to purchase different antennas for each frequency. This simplifies installations since the same antenna can be used for a wide array of in-building wireless applications where wide coverage is desired.

The Type N connectorized KP-400-SPCUPR-4-NF antenna from KP Performance is designed specifically for in-building operation and is ideal for use in large open areas such as indoor courtyards, indoor sporting venues, convention centers and shopping malls. The included mounting bracket and hardware makes this antenna very easy to install. This 5G Cellular antenna just like our wide selection of superior quality RF parts, ship same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other KP Performance products.

Configuration

| | |
|-------------------|------------------|
| Design | Ceiling |
| Band Type | Multi |
| Radiation Pattern | Omni Directional |
| Polarization | Vertical |
| Connector Type | N Female |
| Number of Ports | 1 |

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 380 | | 6,000 | MHz |
| Input VSWR | | | 1.6:1 | |
| Impedance | | 50 | | Ohms |

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: [380 to 520 MHz + 698 to 960 MHz + 1710 to 2700 MHz + 3300 to 3700 MHz + 4900 to 6000 MHz Low PIM Ceiling Mount DAS Antenna, Type N Female](#)

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| | | | |
|--|------|-----|-------|
| Gain | 2.5 | 6.4 | dBi |
| Input Power | | 50 | Watts |
| Passive Intermodulation 3rd Order, 2 x 20 W | -150 | | |

Specifications by Band

| Description | Band 1 | Band 2 | Band 3 | Band 4 | Band 5 | Units |
|---------------------|--------------|---------------|-------------|------------|----------|---------|
| Range | 0.38 to 0.52 | 0.698 to 0.96 | 1.71 to 2.7 | 3.3 to 3.7 | 4.9 to 6 | GHz |
| Gain | 2.5 | 3 | 3 | 5 | 6 | dBi |
| Horizontal HPBW | 360 | 360 | 360 | 360 | 360 | Degrees |
| VSWR Max | 1.6:1 | 1.9:1 | 2:1 | 1.6:1 | 1.8:1 | |
| Maximum Input Power | 50 | 50 | 50 | 50 | 50 | Watts |

Mechanical Specifications

| | |
|-----------------|--------------------|
| Radome Material | ABS |
| Size | |
| Length | 11.5 in [292.1 mm] |
| Width | 11.5 in [292.1 mm] |
| Height | 5.2 in [132.08 mm] |
| Weight | 0.9 lbs [408.23 g] |

Environmental Specifications

| | |
|--------------------|------------------|
| Temperature | |
| Operating Range | -40 to +60 deg C |

Plotted and Other Data

Notes:

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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:

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-400-SPCUPR-4-NF CAD Drawing

