

698 to 960 MHz + 1710 to 2700 MHz + 3400 to 4200 MHz Low PIM Indoor+Outdoor V-pol Omni Antenna, 3 to 4 dBi, Type N Female

**KP-700SPOMA-4-NF** 



#### **Features**

- Low Passive Intermodulation (PIM) <-150 dBc @ 2x20W
- Vertical Polarization
- · Compact and lightweight for indoor or outdoor use

### **Applications**

- · Indoor distribution of 5G, LTE, GSM/CDMA
- · In-building public or private networks
- · LPWAN, LoRA, LTE-M, NB-IoT, IoT, M2M applications
- Type N Female connector
- Covers 5G, WiFi and LTE frequency bands including extended CBRS
- MIMO DAS (Distributed Antenna Systems)
- Indoor or Outdoor Applications

#### **Description**

The KP Performance KP-700SPOMA-4-NF is a low PIM rated, high performance indoor/outdoor omnidirectional antenna specifically designed for in-building wireless networks such as DAS (Distributed Antenna Systems). KP Performance's KP-700SPOMA-4-NF has 3 to 4 dBi gain and can be used to distribute Cellular and WiFi signals throughout a building or area.

The KP-700SPOMA-4-NF from KP Performance has omnidirectional patterns with vertical polarization and features Type N connectors. 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 698-4200 MHz KP-700SPOMA-4-NF helps meets the most demanding PIM requirements for 5G and LTE/4G bands. The KP-700SPOMA-4-NF operates from 698 to 4200 MHz which is ideal for 5G, LTE, CDMA, LPWAN/IoT/M2M applications including LoRA, LTE-M, and NB-IOT. The Multi-Band design of the KP Performance KP-700SPOMA-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-700SPOMA-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
Band Type
Radiation Pattern
Polarization
Connector Type
Number of Ports

Omni Wide Omni Directional Vertical N Female

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	698		4,200	MHz
Input VSWR			1.8:1	
Impedance		50		Ohms
Gain		3	4	dBi

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### **KP-700SPOMA-4-NF**



Input Power 50 Watts -150

Passive Intermodulation

3rd Order, 2 x 20 W

# Specifications by Band

Band 1	Band 2	Band 3	Band 4	Band 5	Units
0.698 to 0.806	0.806 to 0.96	1.71 to 2.7	3.4 to 4.2		GHz
3.5	3	3.5	4		dBi
360	360	360	360		Degrees
83	65	45	35		Degrees
50	50	50	50		Watts
	0.698 to 0.806 3.5 360 83	0.698 to 0.806     0.806 to 0.96       3.5     3       360     360       83     65	0.698 to 0.806     0.806 to 0.96     1.71 to 2.7       3.5     3     3.5       360     360     360       83     65     45	0.698 to 0.806     0.806 to 0.96     1.71 to 2.7     3.4 to 4.2       3.5     3     3.5     4       360     360     360     360       83     65     45     35	0.698 to 0.806     0.806 to 0.96     1.71 to 2.7     3.4 to 4.2       3.5     3     3.5     4       360     360     360     360       83     65     45     35

# **Mechanical Specifications**

Radome Material **ABS** 

Size

Length 8.31 in [211.07 mm] Width 2.64 in [67.06 mm] Height 2.64 in [67.06 mm] Weight 0.66 lbs [299.37 g]

# **Environmental Specifications**

**Temperature** 

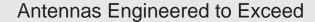
Operating Range -55 to +60 deg C

Humidity < 95

# **Plotted and Other Data**

Notes:

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### **KP-700SPOMA-4-NF**



#### **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 impliment 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

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# **KP-700SPOMA-4-NF CAD Drawing**

