



## 2.4 GHz, 6 dBi, Omni Antenna with N-Male Connector

### Antennas Technical Data Sheet

### KP-24VOMNI-6

#### Features

- Durable UV-Stable Fiberglass Radome
- Industrial Grade Design for Harsh Environments
- Integral N-Male Connector
- Fully Sealed Brass Elements

#### Applications

- 2.4 GHz ISM Band
- IEEE 802.11g and 802.11n, 802.11ax Wireless LAN
- Public Wireless Hotspots
- WiFi Access Points
- Multipoint and Mobile Applications

#### Description

The KP Performance Antenna KP-24VOMNI-6 with N-male connector is an economical yet high performance omnidirectional antenna designed for the 2.4 GHz ISM band. This compact and lightweight antenna is ideally suited for IEEE 802.11b, 802.11g, 802.11n, and 802.11ax wireless LANs, IoT, Bluetooth, public wireless hotspot application and other multipoint applications where wide coverage is desired.

KP Performance KP-24VOMNI-6 omnidirectional antenna features fully sealed brass elements inside a durable UV-stable fiberglass radome. This is a lightweight yet rugged design for industrial and other harsh environments.

The integrated N-male connector on the KP-24VOMNI-6 omnidirectional antenna allows it be mounted to various types of N-Female Bulkhead connectors and adapters as well as N-Female type magnetic mounts. In addition to shipping the same day, our 2.4 GHz omnidirectional antennas are high-quality components backed by expert technical support and sales personnel.

#### Configuration

Design	Omni
Frequency Range	2.4 to 2.5 GHz
Polarization	Vertical
Connector Type	N Male
Number of Ports	1

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Impedance		50		Ohms
Gain Nominal		6		dBi
Gain Variation		±0.5		dBi
Horizontal (Azimuth) Beam Width		360		Degrees
Vertical (Elevation) Beam Width		28		Degrees
Electrical Downtilt		0		Degrees
Input Power			100	Watts

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, 6 dBi, Omni Antenna with N-Male Connector KP-24VOMNI-6](#)



## 2.4 GHz, 6 dBi, Omni Antenna with N-Male Connector

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**KP-24VOMNI-6**

VSWR

1.3:1

1.5:1

#### Mechanical Specifications

Radome Material

Black Fiberglass

#### Size

Length

13.8 in [350.52 mm]

Width

0.8 in [20.32 mm]

Weight

0.4 lbs [181.44 g]

#### Mounting

Mounting Mast Diameter

1.2 to 2 in [30.48 to 50.80 mm]

Mechanical Specification Notes:

Pipe Mount Sold Separately

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +85 deg C

Storage Range

-40 to +185 deg C

Wind Survivability

150 MPH [241.4 KPH]

#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

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.

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, 6 dBi, Omni Antenna with N-Male Connector KP-24VOMNI-6](#)

URL: <https://www.kpperformance.com/2-4ghz-6dbi-omni-antenna-n-male-connector-kp-24vomni-6-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.

TYPE N MALE CONNECTOR

13.78  
[350.0]

0.94  
[24.0]

0.78  
[19.7]

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/24/2020	KHIETPAS

<div>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</div> <div>TOLERANCES: <table><tr><td>X ± .2</td><td>[ 5.08]</td><td>FRACTIONS</td></tr><tr><td>.XX ± .02</td><td>[ .51]</td><td>1 / 32</td></tr><tr><td>XXX ± .005</td><td>[ .13]</td><td>ANGLES ± °</td></tr></table>CABLE LENGTH (L) TOLERANCES: <table><tr><td>L ≤ 12 [305]</td><td>± .1 [25] / -0</td></tr><tr><td>12 [305] &lt; L ≤ 60 [1524]</td><td>± .2 [51] / -0</td></tr><tr><td>60 [1524] &lt; L ≤ 120 [3048]</td><td>± .4 [102] / -0</td></tr><tr><td>120 [3048] &lt; L ≤ 300 [7620]</td><td>± .6 [152] / -0</td></tr><tr><td>300 [7620] &lt; L =</td><td>+5% / -0</td></tr></table>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</div>				X ± .2	[ 5.08]	FRACTIONS	.XX ± .02	[ .51]	1 / 32	XXX ± .005	[ .13]	ANGLES ± °	L ≤ 12 [305]	± .1 [25] / -0	12 [305] < L ≤ 60 [1524]	± .2 [51] / -0	60 [1524] < L ≤ 120 [3048]	± .4 [102] / -0	120 [3048] < L ≤ 300 [7620]	± .6 [152] / -0	300 [7620] < L =	+5% / -0	<div>THIRD-ANGLE PROJECTION</div> <div><div></div><div>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF KP PERFORMANCE, INC. ALL RIGHTS RESERVED.</div></div> <div><table><tr><td>SHEET</td><td>1</td><td>OF</td><td>1</td></tr><tr><td>SCALE</td><td colspan="3">N/A</td></tr></table><table><tr><td>REV</td><td>A</td></tr><tr><td colspan="2"></td></tr></table></div>				SHEET	1	OF	1	SCALE	N/A			REV	A		
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<div><div><div>an <b>INFINIT®</b> brand</div><div>15397-117 Ave. Edmonton, Alberta, Canada T5M3X4</div><div>Phone: 1.855-276-5772   Edm.: 1.780.702.5757</div><div><a href="http://www.kpperformance.com">www.kpperformance.com</a> Email: <a href="mailto:info@kpperformance.com">info@kpperformance.com</a></div></div></div> <div><table><tr><td>SIZE</td><td>CAGE CODE</td><td>DRAWN BY</td><td>ITEM NO.</td></tr><tr><td>A</td><td>N/A</td><td>DZINN</td><td>KP-24VOMNI-6</td></tr></table></div>				SIZE	CAGE CODE	DRAWN BY	ITEM NO.	A	N/A	DZINN	KP-24VOMNI-6																											
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