



5.8 GHz, 6 dBi, Omni Antenna with N-Male Connector

Antennas Technical Data Sheet

KP-58VOMNI-6

Features

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

Applications

- Point to Multipoint Applications
- 5.3 GHz, 5.4 GHz and 5.8 GHz Band Applications
- IEEE 802.11a, 802.11n, 802.11ac, 802.11ax Wireless LAN
- WiMAX, WISP and WiFi Compatible
- Wireless Video Systems

Description

The KP Performance Antenna KP-58VOMNI-6 with N-male connector is an economical yet high performance omnidirectional antenna designed for the 5 GHz unlicensed band. This compact and lightweight antenna is ideally suited for IEEE 802.11a, 802.11n, 802.11ac, and 802.11ax wireless LANs, IoT, public safety and other multipoint applications where wide coverage is desired.

KP Performance KP-58VOMNI-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-58VOMNI-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 5 GHz omnidirectional antennas are high-quality components backed by expert technical support and sales personnel.

Configuration

Design	Omni
Frequency Range	5.15 to 5.85 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
Input Power			100	Watts
VSWR		1.3:1	1.5:1	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [5.8 GHz, 6 dBi, Omni Antenna with N-Male Connector KP-58VOMNI-6](#)



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Mechanical Specifications

Radome Material

Black Fiberglass

Size

Length

11.3 in [287.02 mm]

Width

0.8 in [20.32 mm]

Weight

0.3 lbs [136.08 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.

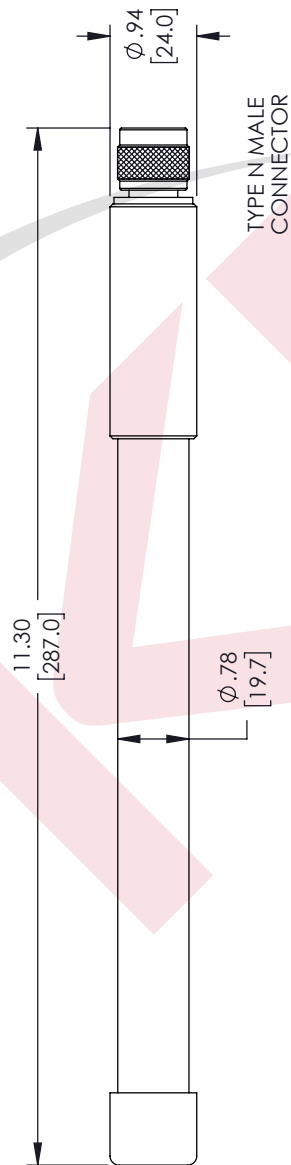
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [5.8 GHz, 6 dBi, Omni Antenna with N-Male Connector KP-58VOMNI-6](#)

URL: <https://www.kpperformance.com/5-8ghz-6dbi-omni-antenna-n-male-connector-kp-58vomni-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.

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



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p>		<p>THIRD-ANGLE PROJECTION</p> 	
<p>TOLERANCES:</p> <p>X ± .2 [5.08] .XX ± .02 [51] XXX ± .005 [13] ANGLES ± °</p>		<p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF KP PERFORMANCE, INC. ALL RIGHTS ARE RESERVED.</p>	
<p>CABLE LENGTH (L) TOLERANCES:</p> <p>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</p>		<p>1 OF 1</p>	
<p>  PERFORMANCE ANTENNAS an INFINIT® brand 15397-117 Ave. Edmonton, Alberta, Canada T5M3X4 Phone: 1.855-276-5772 Edm.: 1.780.702.5777 www.kpperformance.com Email: info@kpperformance.com </p>		<p>SHEET SCALE N/A</p>	
<p> SIZE A CAGE CODE N/A DRAWN BY DZINN ITEM NO. KP-58VOMNI-6 REV A </p>		<p>REV A</p>	
<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>			

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