



2.4 GHz, 4 dBi, Omni Antenna with N-Female Connector

Antennas Technical Data Sheet

KP-24-SPOMA-4-NF

Features

- All Weather Operation
- Durable UV-Stable Fiberglass Radome with Vented End Cap and Drain Holes in Base
- High Performance in a Compact Lightweight Design
- Includes Mast Mounting Kit
- Integral N-Female Connector

Applications

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

Description

The KP Performance Antenna KP-24-SPOMA-4-NF is an economical yet high performance omnidirectional Wi-Fi antenna designed for the 2.4GHz ISM band. These compact and lightweight antennas are ideally suited for IEEE 802.11b, 802.11g, 802.11n and 802.11ax (WiFi 6) wireless LANs, IoT, Bluetooth, public wireless hotspot application and other multipoint applications where wide coverage is desired.

The KP-24-SPOMA-4-NF omnidirectional antenna features an integral N-Female bulkhead type connector that mounts through the wall of an equipment enclosure. Included with the KP-24-SPOMA-4-NF omnidirectional antenna is a mast mounting kit. Consisting of a heavy-duty steel bracket and a pair of U-bolts, this kit allows installation on masts up to 2.0" in diameter.

Constructed for all weather operation, the omnidirectional KP-24-SPOMA-4-NF from KP Performance Antenna features sealed collinear brass elements inside a durable UV-stable machine gray fiberglass radome. A vented end cap and drain holes in the base help prevent moisture build-up inside the antenna. These features allow the KP-24-SPOMA-4-NF omnidirectional antenna to be mounted in up or down positions. In addition to shipping the same day, our 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 Female
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Impedance		50		Ohms
Gain Nominal		4		dBi
Horizontal (Azimuth) Beam Width		360		Degrees
Vertical (Elevation) Beam Width		50		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, 4 dBi, Omni Antenna with N-Female Connector KP-24-SPOMA-4-NF](#)



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VSWR

1.5:1

Mechanical Specifications

Radome Material

Fiberglass

Size

Base Diameter

1.27 in [32.26 mm]

Radome Diameter

0.75 in [19.05 mm]

Length

7.8 in [198.12 mm]

Weight

0.21 lbs [95.25 g]

Mounting

Mount Type

Mast

Mounting Mast Diameter

2 in [50.80 mm]

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

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.

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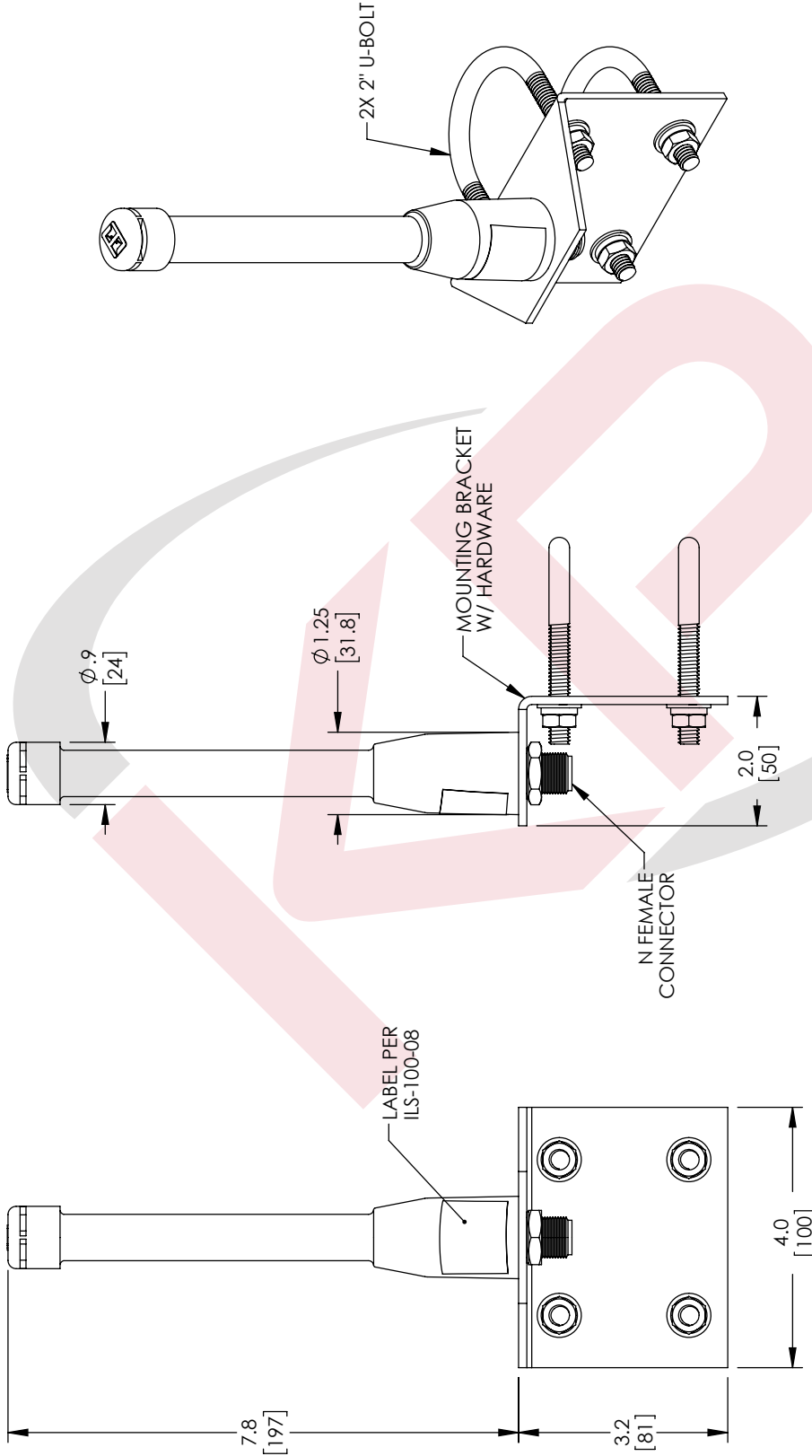
URL: <https://www.kpperformance.com/2-4ghz-4dbi-omni-antenna-n-female-connector-kp-24-spoma-4-nf-p.aspx>

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.

KP-24-SPOMA-4-NF CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	09/02/2020	KHIETPAS



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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ± 2 [5.08]	FRACTIONS
XX = ± 0.02 [51]	+1/32
XXX = ± 0.05 [13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

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 = +9% / -0	

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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