

2.4 GHz, 8 dBi, Omni Antenna with N-Female Connector

KP-24-SPOMA-9-NF



Features

- Can be Installed in Up or Down Positions & Includes Mast Mounting Kit
- Compact, Lightweight Design Vented end Cap and Drain Holes in Base
- Economical, Compact, Lightweight Design
- Durable UV-Stable Fiberglass Radome
- Integral N-Female Connector

Applications

- 2.4 GHz ISM Band
- Supports IEEE 802.11b/g/n Applications
- WiFi and 2.4 GHz Wireless Video Systems
- Bluetooth® & Public Wireless Hotspot

Description

The KP-24-SPOMA-9-NF from KP Performance Antenna 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, 802.11ax (WiFi 6) wireless LANs, Bluetooth, IoT, public wireless hotspot application and other multipoint applications where wide coverage is desired.

The KP-24-SPOMA-9-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-9-NF 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 N-female KP-24-SPOMA-9-NF 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 Performance Antenna KP-24-SPOMA-9-NF 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
Application Band	WLAN
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2.4		2.5	GHz
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		8		dBi
Horizontal (Azimuth) HPBW		Omnidirectional		
Vertical (Elevation) HPBW		15		Degrees

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, 8 dBi, Omni Antenna with N-Female Connector KP-24-SPOMA-9-NF](#)

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Input Power	100	Watts
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Mechanical Specifications

Radome Material	Fiberglass
Size	
Base Diameter	1.27 in [32.26 mm]
Radome Diameter	0.75 in [19.05 mm]
Length	19.7 in [500.38 mm]
Mounting Mast Diameter	2 in [50.80 mm]
Weight	1.1 lbs [498.95 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +85 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: <https://www.kpperformance.com/2-4ghz-8dbi-omni-antenna-n-female-connector-kp-24-spoma-9-nf-p.aspx>

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-24-SPOMA-9-NF CAD Drawing

