![KP Performance Antennas logo — an INFINITe brand]

2.4 GHz, 8 dBi, Omni Antenna with 12 inch N-Female Connector

Antennas Technical Data Sheet   KP-24-SPOMA12-8-NF

Features

- 12" Coax Lead
- Includes Mounting System
- All Weather Operation
- Compact, Lightweight design
- Durable UV-Stable Fiberglass Radome

Applications

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

Description

KP Performance Antenna KP-24-SPOMA12-8-NF omnidirectional antenna is a very compact yet high performance antenna designed for the 2.4GHz ISM band. It is ideally suited for multipoint and mobile applications where high gain and wide coverage is desired. This compact and lightweight antenna is 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 Performance Antenna KP-24-SPOMA12-8-NF omnidirectional antennas construction features a fiberglass radome for durability and aesthetics. It is equipped with a 12" pigtail connectorized with an N-female. This enables it to be directly connected to a radio without a separate cable.

Its mounting system features a heavy-duty extruded aluminum bracket and stainless steel U-Bolt for superior strength. 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
Cable Length	12 in [304.8 mm]
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Impedance		50		Ohms
Gain Nominal		8		dBi
Horizontal (Azimuth) Beam Width		360		Degrees
Vertical (Elevation) Beam Width		18		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, 8 dBi, Omni Antenna with 12 inch N-Female Connector KP-24-SPOMA12-8-NF

KP-24-SPOMA12-8-NF REV 1

2.4 GHz, 8 dBi, Omni Antenna with 12 inch N-Female Connector

Antennas Technical Data Sheet   KP-24-SPOMA12-8-NF

VSWR	2:1

Mechanical Specifications

Radome Material   Fiberglass

Size
Length   16 in [406.4 mm]
Weight   1.5 lbs [680.39 g]

Mounting
Mount Type   Mast
Mounting Mast Diameter   2.38 in [60.45 mm]
Mechanical Specification Notes:

Environmental Specifications
Temperature
Operating Range   -40 to +85 deg C
Wind Survivability   100 MPH [160.93 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.

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URL: https://www.kpperformance.com/2-4ghz-8dbi-omni-antenna-12-inch-n-female-connector-kp-24-spoma-12-8-nf-p.aspx

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KP-24-SPOMA12-8-NF REV 1

KP-24-SPOMA12-8-NF CAD Drawing
2.4 GHz, 8 dBi, Omni Antenna with 12 inch N-Female Connector

⌀2.50 MAX

3.31 [84.1]

2.5" NOM U-BOLT

N FEMALE CONNECTOR

12.00 [304.8]

⌀1.32 [33.5]

LABEL PER ILS-100-08

16.85 [427.9]

⌀1.10 [27.9]

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

KP PERFORMANCE ANTENNAS

an INFINITE brand

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CAGE CODE	DRAWN BY
N/A	DZINN

ITEM NO.
KP-24-SPOMA12-8-NF

SIZE A

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

TOLERANCES:
X = ± .2 [5.08]
XX = ± .02 [.51]
XXX = ±.005 [.13]

FRACTIONS ± 1/32
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 = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

KP-24-SPOMA12-8-NF   REV 1