

2.4-2.5 GHz, Omnidirectional Fiberglass Antenna, 12 dBi, Female Type N Connector, Vertical Polarization

KP-2SPOM-12-NF



Features

- All weather operation
- Includes heavy duty steel mast mounting brackets
- Lightweight fiberglass radome
- Integral N-Female connector
- Commercial grade design
- 360° Omnidirectional Pattern

Applications

- 2400 Band Operation
- Point to Multipoint and Non Line of Sight (NLOS) Applications

- 12 dBi gain

Description

The KP-2SPOM-12-NF from the KP Performance antenna is a high performance outdoor omnidirectional antenna specifically designed for Wi-Fi networks. This KP-2SPOM-12-NF outdoor antenna is an economical rugged omnidirectional antenna that provides high reliability due to its fiberglass radome. This Omni antenna has 12 dBi gain and 2400-2500 MHz frequency range that offers great coverage for rural areas or difficult-to-cover areas.

The 2.4-2.5 GHz frequency range omnidirectional antenna has coverage of Wi-Fi, IoT, Zigbee and other unlicensed bands. The KP-2SPOM-12-NF omnidirectional antenna has vertical polarization and all the components in the omnidirectional fiberglass antenna are DC grounded for lightning protection. The 12 dBi high gain omnidirectional outdoor-rated antenna has 360 degree of coverage to offer range extension and simple deployment to build reliable communication networks.

This 2400-2500 MHz Omni antenna has one Type N Female connector which makes installation easy and fast allowing for rapid time to on air activation. The versatile Type N Female connector option in the Omni antenna allows cabled connections to the radios and is a fit where high coverage is required and traditional base station antennas are too bulky.

KP Performance has stock of KP-2SPOM-12-NF antennas with same-day shipping. For further information on similar products, search this website or contact our expert technical support who would be happy to guide you to the perfect 2400-2500 MHz, 12 dBi gain omnidirectional antenna for your requirement.

Configuration

Radiation Pattern	Omnidirectional
Polarization	Vertical
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		2,500	MHz
Input VSWR		1.5:1		
Impedance		50		Ohms
Gain		12		dB
Horizontal Beamwidth			360	Degrees
Vertical Beamwidth			7	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:
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Mechanical Specifications

Radome Material	Fiberglass
Size	
Length	47.24 in [119.99 cm]
Width	0.728 in [18.49 mm]
Height	0.728 in [18.49 mm]
Mounting Mast Diameter	1.57 to 1.96 in [39.88 to 49.78 mm]
Weight	2.42 lbs [1.1 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +70 deg C
Wind Survivability	124.274 MPH [200 KPH]
Wind Loading	
Humidity	5 to 95

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/2.4-2.5-ghz-omnidirectional-fiberglass-antenna-12-dbi-female-type-n-connector-vertical-polarization-kp-2spom-12-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.

KP-2SPOM-12-NF CAD Drawing

