



2.4 GHz, 8 dBi, Omni Antenna with 12 inch RP-SMA Plug Connector

**Antennas Technical Data Sheet**

**KP-24-SPOMA12-8-RSP**

**Features**

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

**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 Performance Antenna KP-24-SPOMA12-8-RSP is a compact yet high performance 2.4 GHz omnidirectional WiFi antenna. It is ideally suited for multipoint and mobile applications where high gain and wide coverage is desired. Additional applications include IEEE 802.11b, 802.11g, 802.11n, 802.11ax (WiFi 6) wireless LANs, IoT, Bluetooth, public wireless hotspot applications.

The KP-24-SPOMA12-8-RSP omnidirectional antenna's construction features a fiberglass radome for durability and aesthetics. It is equipped with a 12" pigtail connectorized with a Reverse Polarized SMA Male connector. 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, KP Performance Antenna products 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	SMA Plug Reverse Polarity
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
VSWR			2:1	

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 RP-SMA Plug Connector KP-24-SPOMA12-8-RSP](#)



2.4 GHz, 8 dBi, Omni Antenna with 12 inch  
RP-SMA Plug Connector

**Antennas Technical Data Sheet**

**KP-24-SPOMA12-8-RSP**

**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.

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 RP-SMA Plug Connector KP-24-SPOMA12-8-RSP](#)

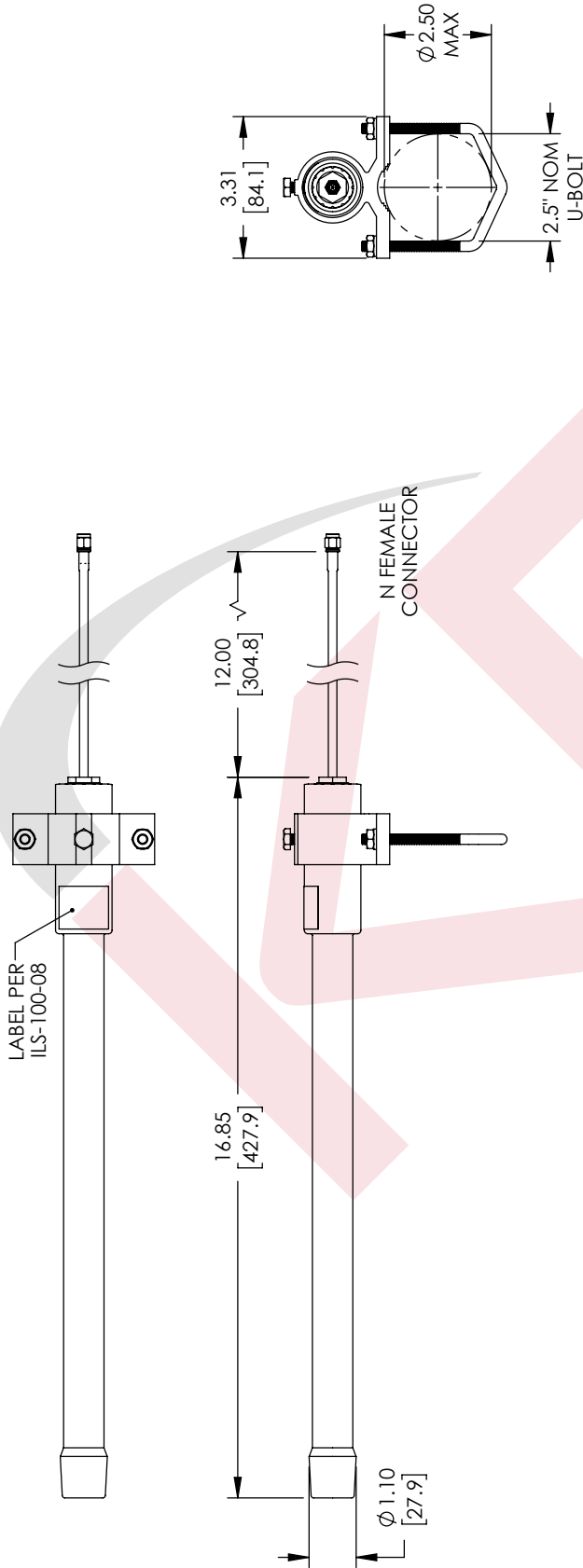
URL: <https://www.kpperformance.com/2-4ghz-8dbi-omni-antenna-12-inch-rp-sma-plug-connector-kp-24-spoma12-8-rsp-p.aspx>

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-SPOMA12-8-RSP CAD Drawing

2.4 GHz, 8 dBi, Omni Antenna with 12 inch RP-SMA Plug Connector

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



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>X = ±.2 [5.08] FRACTIONS                  XX = ±.02 [51] ±.132                  XXX = ±.005 [13] ANGLES ± 1°</p> <p>CABLE LENGTH (L) TOLERANCES:                  L ≤ 12 [305] = +1 [25] / -0                  12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0                  60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0                  120 [3048] &lt; L ≤ 300 [7620] = +8 [162] / -0                  300 [7620] &lt; L = +9% / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>		<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF KP PERFORMANCE, INC. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>	
<p><b>KP PERFORMANCE ANTENNAS</b>                  A LIVE TELECOM</p> <p>9850 W 190th St, Suite F, Mokena, IL 60448                  Phone: 1.855-276-5772   Edm.: 1.780.702.7577                  www.kpperformance.com                  Email: info@kpperformance.com</p>		ITEM NO.	REV
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	N/A	DZINN	KP-24-SPOMA12-8-RSP
			A

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

T1Rev D