

2300 to 2700 + 5150 to 5850 MHz, WiFi Sector Antenna, 16 to 18 dBi, 90-Degree, +/-45 Dual Pol, 2-port, Type N Female Connector

KP-25SX2-90



Features

- Very High Gain 17 dBi to 20 dBi Directional Antenna with MIMO peak performance antennas
- Dual Band frequency coverage for 2300 MHz to 2700 MHz and 5150 MHz to 5850 MHz
- Sector antenna with 2 x Type N Female connectors
- Supports low-latency, bandwidth-hungry applications like high-definition video and augmented reality/virtual reality applications
- 90° beamwidth with dual +/-45 slant polarization
- 100 W max input power per port
- Easy Install mounting bracket provided
- Weatherproof ABS – UV Resistance PVC radome

Applications

- Outdoor and Indoor dual band Wi-Fi6 2.4 GHz and 5 GHz applications supported
- Wireless LAN systems & IEEE.802.16ax applications with MU-MIMO and OFDMA
- WiFi 6 and WiFi 6E enables higher datarates up to 35% with enhanced efficiency and speed
- Increased Bandwidth enhances spectral efficiency and supports faster radio applications
- Smart cities expansion for coverage and IOT / IIOT
- Point-to-point (PtP) or point-to-multipoint (PtMP) applications

Description

The KP Performance KP-25SX2-90 WiFi sector antenna is designed for extensive cellular communication. This antenna has a wide band frequency range from 2300-2700/5150-5850 MHz with a minimum front-to-back ratio of 25. It comes with a Type-N female connector with maximum input power of up to 100 watts. This sector antenna has a high gain of 16 to 18 dBi, which makes it suitable for commercial use, large enterprises, and the telecommunication industry.

This KP-25SX2-90 dual band antenna includes universal radio brackets, which simplifies installation. The WiFi 6e antenna with 25 dB port-to-port isolation can be used for indoor (stadiums, large arenas) and outdoor applications. It has dual slant +/-45 polarizations to improve equality in received signal levels. This unlicensed WiFi 6 frequency band antenna with 16 to 18 dBi gain is DC grounded and comes with a 3-degree electrical down tilt.

This 2300-2700/5150-5850 MHz, +/-45 dual-polarized antenna comes with 2-ports. It has a 90-degree horizontal and 7/5-degree vertical HPBW. The sector antenna with 16 to 18 dBi gain is offered with an Omni directional radiation pattern and has a PVC radome. This dual band antenna can operate in temperatures ranging from -40 to 60 °C.

KP Performance has the largest in-stock selection of Omni directional, WiFi 6e sector antennas with the same-day shipment. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the perfect 2300-2700/5150-5850 MHz, dual band antenna for your requirements.

Configuration

Design	Sector
Band Type	Dual
Radiation Pattern	Omni Directional
Polarization	45 Deg. Slant
Connector Type	N Female
Interface 2	N Female
Number of Ports	2
Lightning Protection	DC Grounded

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			2:1	
Impedance		50		Ohms
Front to Back Ratio	25			dB
Electrical Downtilt		3		Degrees
Port to Port Isolation	25			dB
Input Power			100	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.3 to 2.7	5.15 to 5.85				GHz
Gain	16	18				dBi
Horizontal HPBW	90	90				Degrees
Vertical HPBW	7	5				Degrees
Port to Port Isolation	25	25				dB
Front to Back Ratio	25	25				dB

Mechanical Specifications

Radome Material	PVC
Size	
Length	35.43 in [899.92 mm]
Width	11.02 in [279.91 mm]
Height	3.14 in [79.76 mm]
Mounting Mast Diameter	1.181 to 2.362 in [30.00 to 59.99 mm]
Weight	1.46 lbs [662.24 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C
Wind Survivability	134 MPH [215.65 KPH]
Wind Loading	

Plotted and Other Data

Notes:

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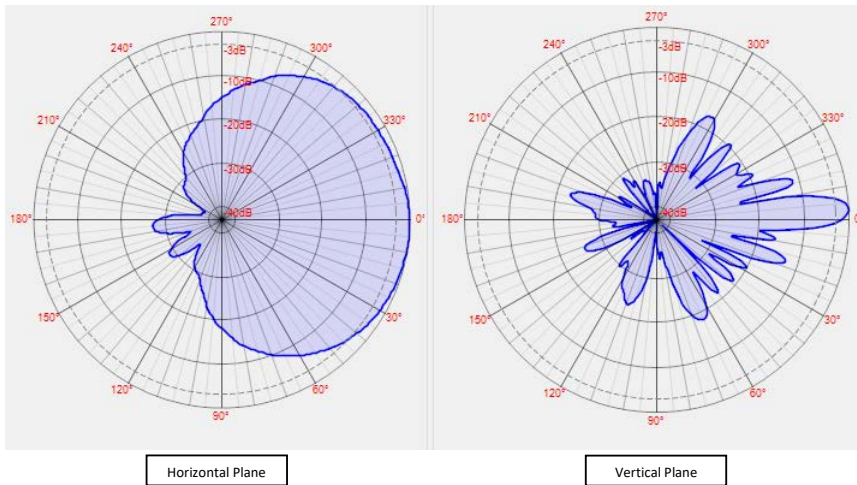
KP-25SX2-90



Typical Radiation Pattern

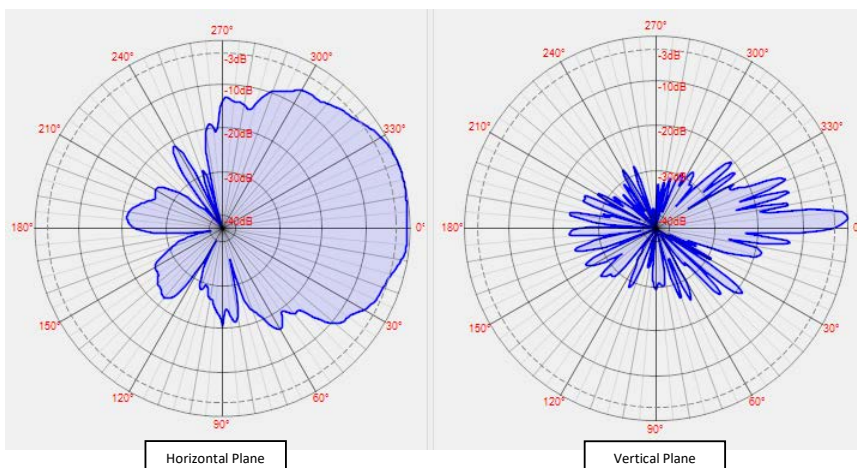
Frequency: 2300 MHz

Gain: 15.04 dBi



Frequency: 5700 MHz

Gain: 15.20 dBi



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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:

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-25SX2-90 CAD Drawing

