

4400 MHz to 6400 MHz Flat Panel Spotlight Antenna, 9 dBi gain X-pol, 2 x N Female Connectors

KP-5DPFP-9-NF



Features

- Dual-slant +/- 45° polarization
- 2xType N Female Connector for 2x2 MIMO applications
- IP67 rated environmental protection
- Indoor and outdoor installations
- 9 dBi gain

Applications

- 5 GHz Band for IEEE 802.11 a/h/p/n/ac/ax (Wi-Fi 6)
- 4.9 GHz to 6.4 GHz bands for Public Safety and Military applications
- Railway and trackside deployments

Description

The KP-5DPFP-9-NF from KP Performance Antennas is a rugged flat panel spotlight antenna specifically designed for industrial wireless local area networks (WLAN). The KP-5DPFP-9-NF operates from 4400 to 6400 MHz which is ideal for public safety, railway signaling and track side communications. The KP Performance Antennas KP-5DPFP-9-NF antenna has 7.5 to 9 dBi gain with 60° Horizontal Beamwidth polarization.

The 60° Horizontal Beamwidth antenna with +/-45 Slant polarization KP-5DPFP-9-NF from KP Performance Antennas has 2 x Type N female connectors and 7.5-9 dBi of gain. The 4400-6400 MHz KP-5DPFP-9-NF is IP67 rated for outdoor and indoor installations.

The 2 x Type N female connectorized KP-5DPFP-9-NF antenna from KP Performance Antennas excels in large open areas such as indoor courtyards, indoor sporting venues, convention centers and shopping malls. Our expert technical support and friendly, knowledgeable customer service personnel are available to assist you with your particular needs for rugged flat panel spotlight antennas.

Configuration

Design	Flat Panel
Application Band	WLAN/MIMO
Band Type	Single
Radiation Pattern	Directional
Polarization	±45 Deg. Slant
Connector Type	N Female
Interface 2	N Female
Number of Ports	2
Lightning Protection	DC Ground

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4.4		6.4	GHz
Input VSWR		2:1		
Impedance		50		Ohms
Gain		9		dBi
Front to Back Ratio	20			dB
Input Power			50	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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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	4.4 to 4.9	4.9 to 6.1	6.1 to 6.4			GHz
Gain	7.5	9.2	7.7			dBi
Horizontal HPBW	65	56	60			Degrees
Vertical HPBW	55	48	45			Degrees
Port to Port Isolation	20	20	20			dB
Front to Back Ratio	21	20	20			dB
VSWR Max	4.8:1	1.8:1	2.5:1			
Maximum Input Power	50	50	50			Watts

Mechanical Specifications

Radome Material	ASA
Size	
Length	3.9 in [99.06 mm]
Width	3.1 in [78.74 mm]
Height	1.4 in [35.56 mm]
Mounting Mast Diameter	1.18 to 1.96 in [29.97 to 49.78 mm]
Weight	0.4 lbs [181.44 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +65 deg C
Environment	IP67
Wind Survivability	130.48 MPH [209.99 KPH]

Plotted and Other Data

Notes:

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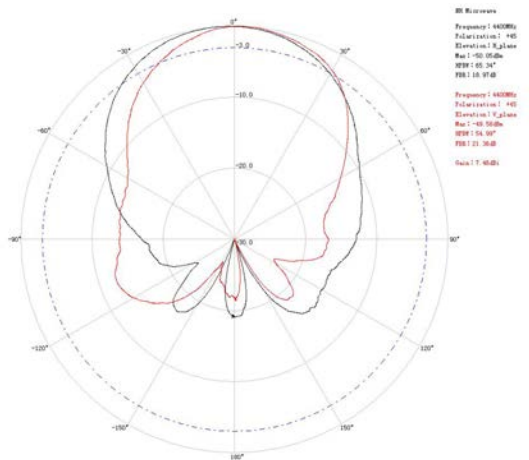
KP-5DPFP-9-NF



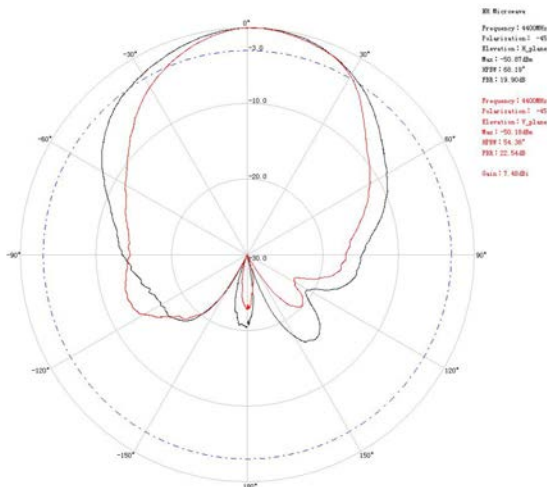
Typical Radiation Pattern

Patterns

+45-Pol_HV4400



-45-Pol_HV4400



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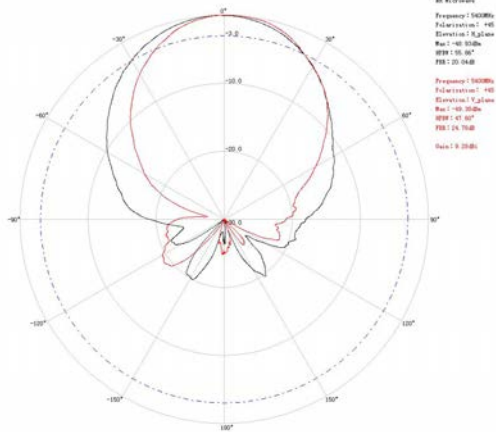
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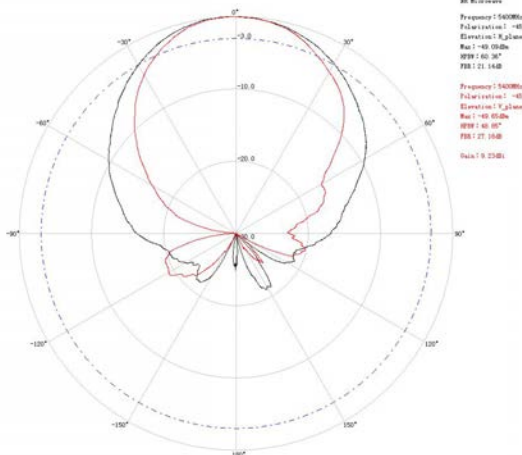


Patterns

+45-Pol_ HV5400



-45-Pol_ HV5400



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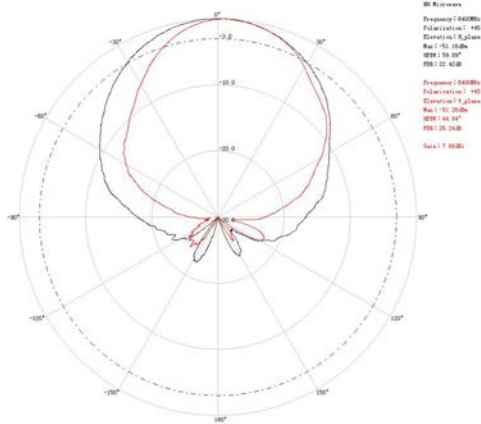
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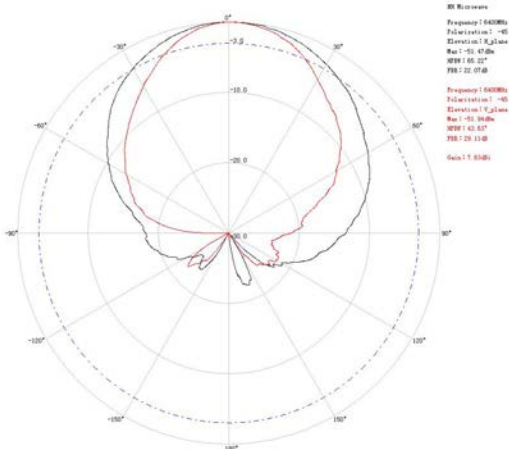


Patterns

+45-Pol_HV6400



-45-Pol_HV6400



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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/wireless-antenna-5-ghz-16-dbi-90-degree-cross-polarized-dual-feed-mimo-sector-antenna-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-5DPFP-9-NF CAD Drawing

