

2 GHz 17 dBi Dual Pol ±45 Degrees Slant
90 Degree Sector Antenna (Cables Included)

KPPA-2GHZDP90S-45

Configuration

Design	Sector
Band Type	Single
Radiation Pattern	Directional
Polarization	45 Deg. Slant
Connector Type	N Female
Interface 2	N Female
Number of Ports	2

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,300		2,700	MHz
Input VSWR			2:01	
Impedance		50		Ohms
Gain		17		dBi
Front to Back Ratio	32			dB
Electrical Downtilt		1.2		Degrees
Cross Polarization Ratio	23			dB
Horizontal (Azimuth) HPBW		90		Degrees
Vertical (Elevation) HPBW		7.4		Degrees
Input Power			50	Watts

Electrical Specification Notes:

Max input power is 50W per port.

Mechanical Specifications

Radome Material	PVC
Housing Plating/Color	Powder Coat
Size	
Length	35.6 in [904.24 mm]
Width	6.9 in [175.26 mm]
Height	3.5 in [88.9 mm]
Mounting Mast Diameter	1.25 to 3.5 in [31.75 to 88.90 mm]
Weight	15.85 lbs [7.19 kg]

Mechanical Specification Notes:

UV protection is UV resistant powder coat.

Environmental Specifications

Temperature

Operating Range -40 to +60 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:

[KPPA-2GHZDP90S-45](#)

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Wind Survivability
Wind Loading

100 MPH [160.93 KPH]

Plotted and Other Data

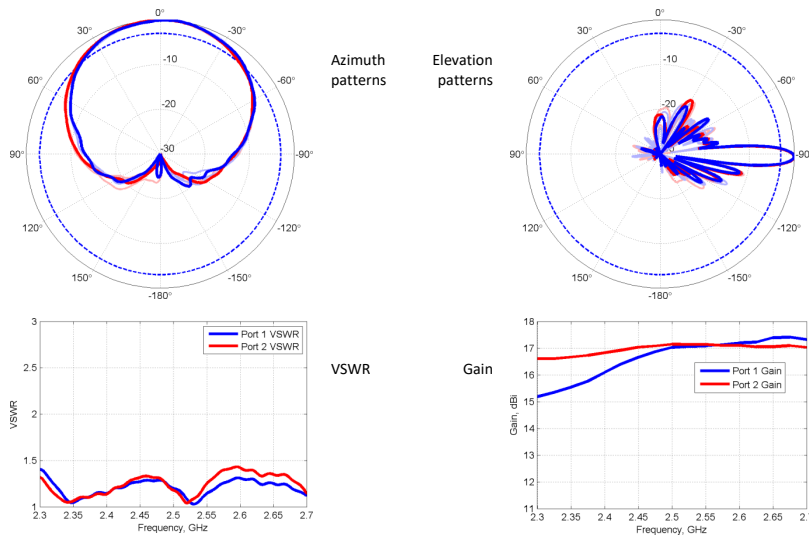
Notes:

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Typical Radiation Pattern



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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/2ghz-45-degree-slant-90-degree-17-dbi-sector-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.