

2 GHz ±45 Degrees + 5 GHz H/V Dual Radio 90 Degree Sector
Antenna Side by Side Alignment (Two Sectors In One Shell)

KPPA-2S5HV-90SS

Configuration

Design	Sector
Band Type	Dual
Radiation Pattern	Directional
Polarization	45 Deg. Slant
Connector Type	N Female
Interface 2	N Female
Interface 3	N Female
Interface 4	N Female
Number of Ports	4

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		5,900	MHz
Input VSWR			2:01	
Impedance		50		Ohms
Gain		14.9		dBi
Front to Back Ratio	27			dB
Electrical Downtilt		0.5		Degrees
Horizontal (Azimuth) HPBW		90		Degrees
Input Power			50	Watts

Electrical Specification Notes:

Max input power is 50W per port.

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4 to 2.5	5.4 to 5.9				GHz
Gain	15.8	14.9				dBi
Horizontal HPBW	90	90				Degrees
Vertical HPBW	7.3	4.8				Degrees
Cross Polar Ratio	16	30				
Port Isolation	28	27				dB
Front to Back Ratio	27	27				dB

Mechanical Specifications

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

[KPPA-2S5HV-90SS](#)

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Radome Material	PVC
Housing Plating/Color	Powder Coat
Size	
Length	35 in [889 mm]
Width	11.4 in [289.56 mm]
Height	6 in [152.4 mm]
Mounting Mast Diameter	1.25 to 3.5 in [31.75 to 88.90 mm]
Weight	33 lbs [14.97 kg]
Mechanical Specification Notes:	
UV protection is UV resistant powder coat.	

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C
Wind Survivability	100 MPH [160.93 KPH]
Wind Loading	

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° \pm 30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over \pm 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [KPPA-2S5HV-90SS](#)

URL: <https://www.kpperformance.com/one-2ghz-slant-one-5ghz-hv-antennas-in-one-radome-1-p.aspx>

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