

2.3 GHz to 2.7 GHz 8-port sector Antenna, 14 dBi,  
65-degree, 8 x Type N Female connector, H/V Dual Pol

**KP-2HVX8-65**



**Features**

- Frequency coverage for 2300 MHz to 2700 MHz
- Very High Gain 14 dBi Directional Antenna
- Easy Install universal mounting bracket provided\Weather-proof ABS – UV Resistance PVC radome
- 8 x Type N Female connector
- 65° beamwidth with dual H/V polarization
- 100 W max input power

**Applications**

- 2X2, 4X4 and 8X8 MIMO ready
- 2.4 GHz applications supported
- Wireless LAN systems & I25 802.16e applications
- Mobile WiMAX Wireless Internet Provider “cell” site
- Smart cities expansion for coverage and IOT / IIOT
- Outdoor or indoor point-to-point (PtP) or point-to-multipoint (PtMP) applications

**Description**

KP Performance’s KP-2HVX8-65 8-port Sector Antenna provides industry leading gain, side lobes suppression, and high front-to-back ratio. Available in 65° beamwidth with dual H/V polarization, this antenna works from 2300 MHz to 2700 MHz. The KP-2HVX8-65 has gain performance of 14 dBi gain and is perfectly suited for macro base station or small cell deployments.

The KP-2HVX8-65 from KP Performance patterns are engineered to be symmetric in both polarizations, which will minimize chain imbalance. The sector antenna’s 25 dB port to port isolation and 25 dB front to back ratio allows for channel (frequency) reuse and can reach high levels of spectral efficiency in the most challenging and noisy environments. The KP-2HVX8-65 sector antennas has 8 Type N Female connectors which make 2x2, 4x4, and 8x8 MIMO configurations possible for high speeds or multiple technology deployments.

The 2.3 GHz to 2.7 GHz KP-2HVX8-65 sector antenna with 8 x N-type female connector has rugged and waterproof structure provides durable platform built for a broad range of environments and features a heavy-duty UV-resistance plastic radome for all-weather operation. The powder coated, high strength mounting brackets are built to withstand wind speeds of up to 135 mph and survive in corrosive environments with large swing in seasonal weather not impacting performance of KP performance’s KP-2HVX8-65 sector antenna. Our expert technical support and friendly, knowledgeable customer service personnel are available to assist you with your particular needs for high performance sector antennas engineered for superior performance antennas.

**Configuration**

Design	Sector
Band Type	Single
Radiation Pattern	Directional
Polarization	Vertical/Horizontal
Cable Type	Coax Cable
Connector Type	N Female
Number of Ports	8

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,300		2,700	MHz
Input VSWR			1.7:1	
Gain		14		dBi
Front to Back Ratio	25			dB

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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Horizontal (Azimuth) HPBW	65	Degrees
Vertical (Elevation) HPBW	15	Degrees
Input Power	100	Watts

**Mechanical Specifications**

Radome Material	PVC
<b>Size</b>	
Length	35.43 in [899.92 mm]
Width	11.02 in [279.91 mm]
Height	3.14 in [79.76 mm]
Weight	11.464 lbs [5.2 kg]

**Environmental Specifications**

Wind Survivability	135 MPH [217.26 KPH]
Wind Loading	

**Plotted and Other Data**

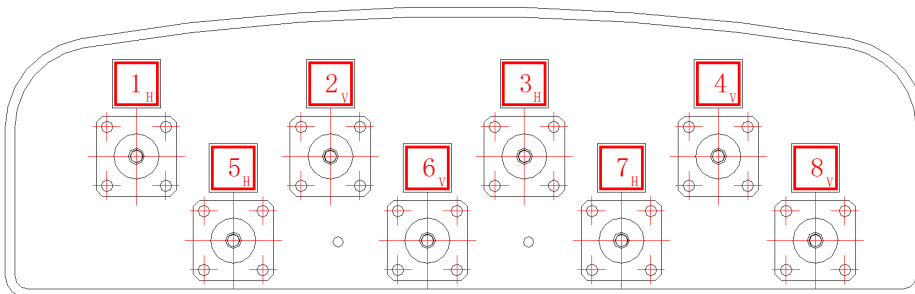
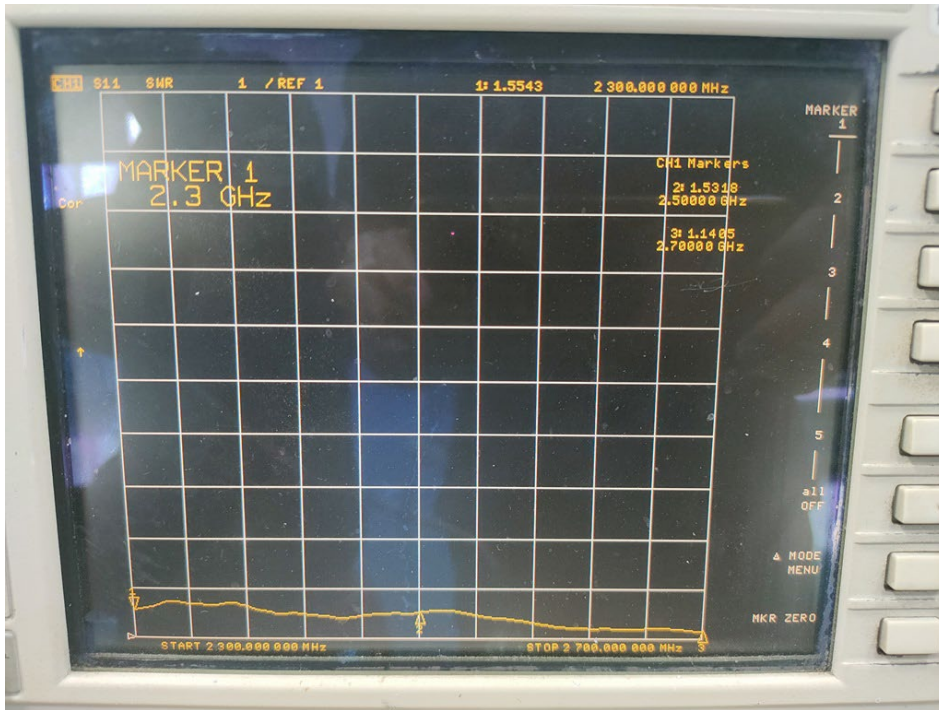
Notes:

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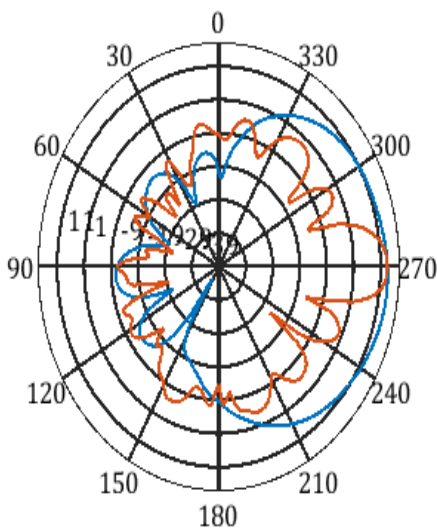
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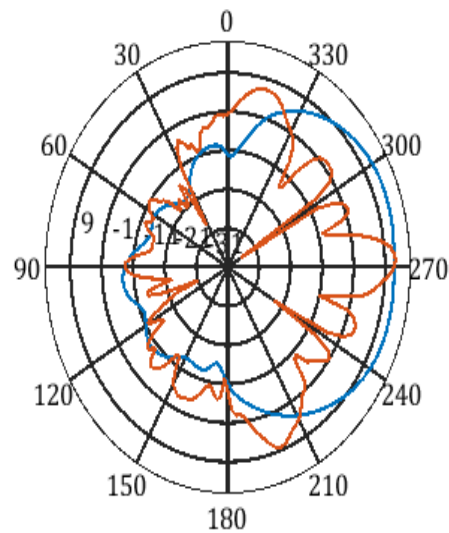
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f=2300MHz, Co@2-cuts



f=2700MHz, Co@2-cuts

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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:

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KP-2HVX8-65 CAD Drawing

