Flat Panel Antenna, 4900 to 6200 MHz, 23 dBi, 2 x 2 MIMO, N Female, H/V or 45 Deg. Slant

KP-5DPFP-23

Features

- 2-port Flat panel antenna
- 4900 to 6200 MHz, 23 dBi
- VSWR < 1.7:1
- All aluminum material
- Dual slant (V/H or ±45°)
- Horizontal beam-width 12°
- Vertical beam-width 12°
- 100 W max input power per port
- 2 x N type female connectors
- DC ground
- Water proof rating: IP-65

Applications

- Indoor or outdoor
- Point to point data links (PtP)
- Point to multi-point data links (PtMP)
- Wi-Fi 5, Wi-Fi 6
- Unlicensed 5GHz and 6GHz bands
- 5G bands - n46, n47, n96, n102
- 2x2 MIMO capability
- High speed internet access

Description

The KP Performance KP-5DPFP-23 flat panel antenna is ideal for point to point applications where form factor is a concern. It has a frequency range of 4900 to 6200 MHz, providing stability over a wide bandwidth to support gigabit transmissions and has operating temperature ranging from -40°C to 60°C (-32°F to 140°F). This antenna has a 23 dBi high gain, which describes electrical power conversion capability.

The KP Performance KP-5DPFP-23 flat panel antenna has an N female connector capable of carrying microwave frequencies used to join coaxial cables. This point to point antenna has a 50 Ohms impedance and is highly directional, which means it receives greater power in a specific direction. This antenna features dual slant (V/H or ±45°) polarization, which makes them compatible with any single or dual polarized 2 x 2 MIMO radio and eliminates the risk of link strength degradation due to polarization mismatch.

KP Performance KP-5DPFP-23 white flat panel antenna has less than 1.7 VSWR (Voltage Standing Wave Ratio) that results in the best power transfer and reduced losses. It has 100 W maximum power per port within which it has the ability to perform without damage. This antenna has dc ground lighting protection to protect the system from damage due to lighting strikes.

This KP Performance KP-5DPFP-23 flat panel antenna, 4900 to 6200 MHz, 23 dBi is in stock and ready to ship same-day. This high-performance 23 dBi wifi 6 antenna is ideal for 4.9/5.1/5.3/5.4/5.8/6 GHz ISM and UNII band, Wi-Fi 6 and long distance backhaul and point to point data link applications. Based on your specifications, our expert technical support and highly trained sales team can find the ideal 4900 to 6200 MHz, 23 dBi flat panel antenna.

Configuration

Design	Flat Panel
Band Type	Single
Radiation Pattern	Directional
Polarization	H/V or 45 Deg. Slant
Connector Type	N Female
Interface 2	N Female
Number of Ports	2
Lightning Protection	DC Gounded

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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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4,900		6,200	MHz
Input VSWR			1.7:1	
Impedance		50		Ohms
Gain		23		dBi
Front to Back Ratio	23			dB
Horizontal (Azimuth) HPBW		12		Degrees
Vertical (Elevation) HPBW		12		Degrees
Input Power			100	Watts

Mechanical Specifications

Radome Material	UABS
Size	
Length	12.01 in [305 mm]
Width	12.01 in [305 mm]
Height	1.00 in [25 mm]
Mounting Mast Diameter	1.1811 to 2.16535 in [30.00 to 55.00 mm]
Weight	3.4 lbs each [1.5 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C
Environment	Waterproof
Wind Survivability	124.274 MPH [200 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°±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/flat-panel-antenna-4900-6200-mhz-23-dbi-2-x-2-mimo-n-female-h-v-45-deg-slant-kp-5dpfp-23-p.aspx

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KP-5DPFP-23 CAD Drawing