

# 4950 MHz to 7125 MHz, 1-foot Parabolic Antenna, 2x2 MIMO, 25 dBi, RPSMA

#### **KP-6PDN-1-RSP**



#### **Features**

- · 1-Foot standard parabolic antenna
- · 4950 to 7125 MHz, 25 dBi
- VSWR < 2.5:1</li>
- · All aluminum dish

#### **Applications**

- · Long distance backhaul
- Point to point data links (PtP)
- Point to multi-point data links (PtMP)
- · Wi-Fi 5, Wi-FI 6, Wi-Fi 6E and Wi-Fi 7

- Dual slant (V/H or ±45°)
- 50 W max input power per port
- · 2 x RPSMA female connectors
- · DC ground
- · Unlicensed 5GHz and 6GHz bands
- 5G bands n46, n47, n96, n102, n104
- · 2x2 MIMO capability
- · High speed internet access

#### **Description**

The KP Performance KP-6PDN-1-RSP parabolic antenna is for point to point communications that uses a parabolic reflector to direct the waves to the receiver in its focal point. It has a frequency range of 4950 to 7125 MHz, providing stability over a wide bandwidth to support gigabit transmissions and has operating temperature ranging from -40°C to 70°C (-32°F to 158°F). This antenna has a 25 dBi high gain, which describes electrical power conversion capability.

The KP Performance KP-6PDN-1-RSP parabolic antenna has an RP-SMA 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.

The KP Performance white parabolic antenna is of 1 foot size and has less than 2.5 VSWR (Voltage Standing Wave Ratio) that results in the best power transfer and reduced losses. It has 50 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-6PDN-1-RSP parabolic antenna, 4950 to 7125 MHz, 25 dBi is in stock and ready to ship same-day. This high-performance 25 dBi wifi 6e antenna is ideal for 4.9/5.1/5.3/5.4/5.8/6 GHz ISM and UNII band, Wi-Fi 6e and Wi-Fi 7, 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 4950 to 7125 MHz, 25 dBi parabolic antenna.

#### Configuration

Design
Application Band
Band Type
Polarization
Connector Type
Interface 2
Number of Ports
Lightning Protection

Parabolic MIMO Single H/V or 45 Deg. Slant SMA Reverse Polarity SMA Reverse Polarity 2 DC Grounded

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	4,950		7,125	MHz

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 4950 MHz to 7125 MHz, 1-foot Parabolic Antenna, 2x2 MIMO, 25 dBi, RPSMA KP-6PDN-1-RSP

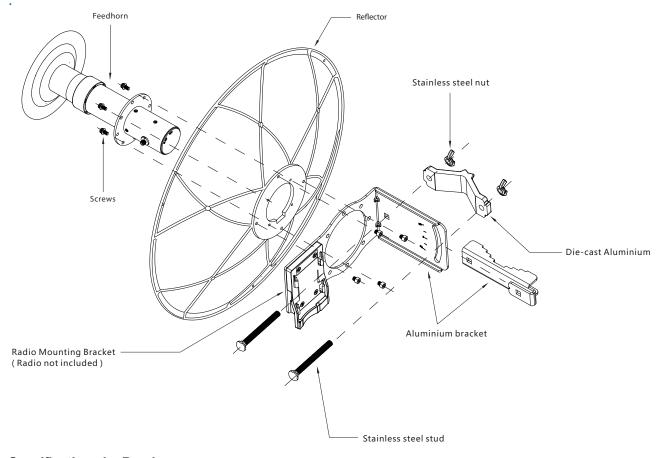


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#### **KP-6PDN-1-RSP**



Input VSWR			2:1	
Impedance		50		Ohms
Front to Back Ratio	30			dB
Horizontal (Azimuth) HPBW		9		Degrees
Vertical (Elevation) HPBW		9		Degrees
Input Power			50	Watts



## **Specifications by Band**

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#### **KP-6PDN-1-RSP**



Band 1	Band 2	Band 3	Band 4	Band 5	Units
4.95 to 5.1	5.1 to 5.9	5.9 to 7.125			GHz
24	24.5	25			dBi
2.5:1	2:1	2:1			
	4.95 to 5.1 24	4.95 to 5.1 5.1 to 5.9 24 24.5	4.95 to 5.1 5.1 to 5.9 5.9 to 7.125 24 24.5 25	4.95 to 5.1 5.1 to 5.9 5.9 to 7.125 24 24.5 25	4.95 to 5.1 5.1 to 5.9 5.9 to 7.125 24 24.5 25

### **Mechanical Specifications**

Radome Material

Size Length

Width Height

Mounting Mast Diameter

Weight

**Environmental Specifications** 

Temperature

Operating Range

**Plotted and Other Data** 

Notes:

Aluminum

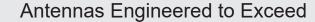
15.7 in [398.78 mm] 15.7 in [398.78 mm] 5 in [127 mm]

1.1811 to 1.9685 in [30.00 to 50.00 mm]

8.35 lbs [3.79 kg]

-40 to +70 deg C

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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/4950-mhz-to-7125-mhz-1-feet-parabolic-antenna-2x2-mimo-25-dbi-rpsma-kp-6pdn-1-rsp-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 impliment 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

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### **KP-6PDN-1-RSP CAD Drawing**

