

WiFi 6e, 2400-2500/5150-7250 MHz
6/6 dBi, 6x6 MIMO Omni, RP-SMA



PEANOM1168

Features

- Reverse Polarity SMA (RP-SMA) Male Connector
- 6 x Vertical Polarization
- 6x6 MIMO Functionality
- Outdoor Rated Omnidirectional Antenna
- 2.4 GHz, 5 GHz, 6 GHz WiFi Bands
- 6 dBi gain

Applications

- Infotainment systems, Routers, WiFi hotspots, HD video transmission, Gateways, Dash cameras, Public transportation
- WiFi 6e (802.11ax) networks
- Connected cars or self-driving cars, Fleet management, Logistics
- Public Safety Networks
- IoT, Industrial IoT, Zigbee, Bluetooth, WiFi

Description

The PEANOM1168 WiFi 6e 6x6 MIMO Omni Antenna from Pasternack is a high performance omnidirectional antenna designed for the 2400 MHz to 7125 MHz bands and is available to ship same day. It features 6 (six) pigtailed terminated with Reverse Polarity SMA (RP-SMA) Male connectors for 6x6 MIMO applications. It is a UV protected, outdoor rated antenna with omni-directional pattern. The PEANOM1168 is ideally suited for 802.11 protocols including 802.11ax as well as IoT, Zigbee and Bluetooth.

The Pasternack high performance omni PEANOM1168 is a rugged antenna providing broad coverage, low latency, increased network capacity and 6 dBi gain. This RP-SMA male omnidirectional antenna is suitable for commercial radios and access points in public and private networks that are equipped with RP-SMA female connectors. Pasternack's PEANOM1168 supports 2.4, 5 and 6 GHz bands.

This WiFi 6e PEANOM1168 omni antenna with 6 RP-SMA male connectors, as well as our wide selection of superior quality RF parts, ships same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other Pasternack products.

Configuration

Design	Omni
Band Type	Dual
Radiation Pattern	Omni Directional
Polarization	Vertical
Cable Type	RG58/U
Connector Type	SMA Male Reverse Polarity
Number of Ports	6

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		7,250	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Input Power			50	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4 to 2.5	5.15 to 7.25				GHz
Bandwidth	100	2.1				

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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Gain	6	6				dBi
Horizontal HPBW	360	360				
Vertical HPBW	45	30				Degrees

Mechanical Specifications

Radome Material	UV Resistant ABS
Size	
Length	7.1 in [180.34 mm]
Width	5.94 in [150.88 mm]
Height	5.94 in [150.88 mm]
Mounting Mast Diameter	1.57 to 1.96 in [39.88 to 49.78 mm]
Weight	3.52 lbs [1.6 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +70 deg C
Wind Survivability	124 MPH [199.56 KPH]
Humidity	5 to 95 %
Ingress Protection	IP54

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

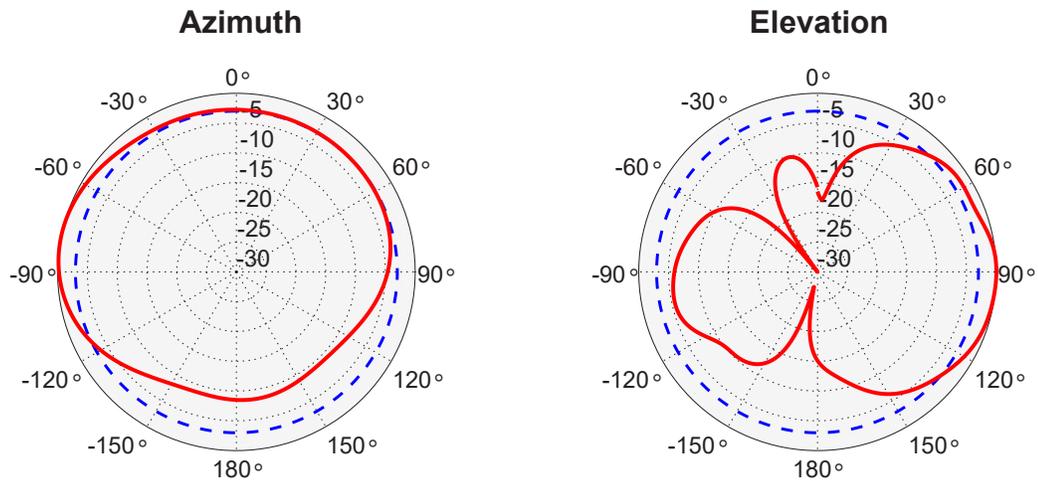
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Typical Radiation Pattern

Radiation Patterns of 2450 MHz

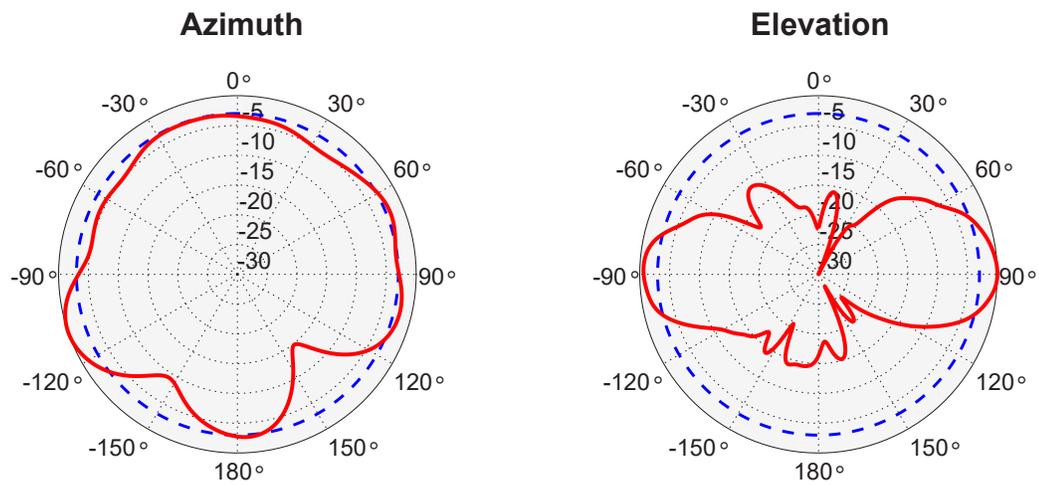


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Radiation Patterns of 5550 MHz

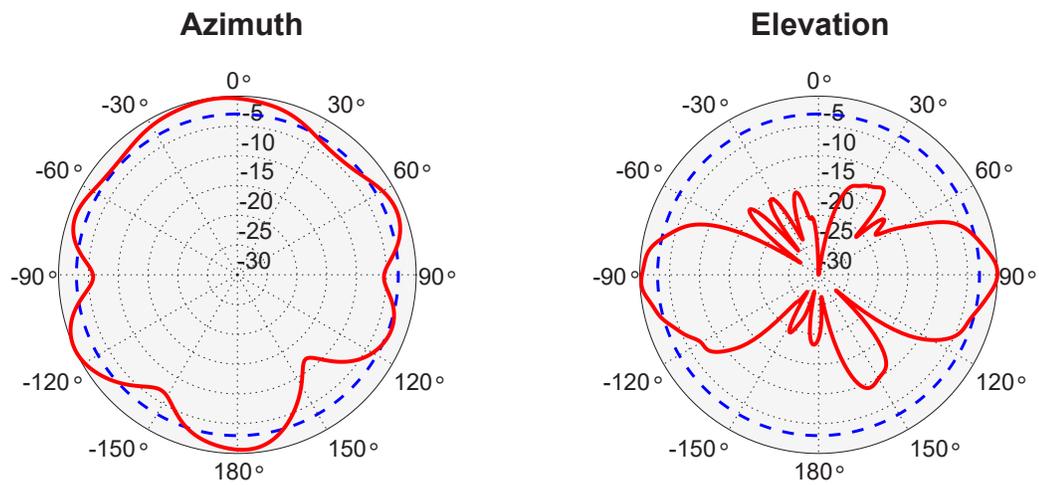


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Radiation Patterns of 6500 MHz



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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.

WiFi 6e, 2400-2500/5150-7250 MHz 6/6 dBi, 6x6 MIMO Omni, RP-SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WiFi 6e, 2400-2500/5150-7250 MHz 6/6 dBi, 6x6 MIMO Omni, RP-SMA PEANOM1168](#)

URL: <https://www.pasternack.com/6-dbi-omni-antenna-2.4-2.5-ghz-5.15-7.25-ghz-sma-male-2-1-max-vswr-6-port-peanom1168-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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PEANOM1168 CAD Drawing

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