

3 dBi DualBand Rubber Duck Portable Antenna 698-2700 MHz SMA Connector



PE51RD1027

Features

- IP67 Ruggedized Waterproof Design
- 0 to 4 dBi gain
- Rigid SMA Male Connector

Applications

- Infotainment Systems, Routers, WiFi Hotspots, HD Video Transmission, Gateways, Dash Cameras, Public Transportation
- Connected Cars or Self-Driving Cars, Fleet Management, Logistics
- 4G & 5G Networks
- 700, 850, 900, 1800, 1900, 2100, 2600 MHz Bands
- IoT, Cellular, Zigbee, Z-Wave, Bluetooth

Description

The PE51RD1027 4G Rubber Duck Antenna from Pasternack is a high performance omnidirectional "rubber-duck" antenna. This rubber duck is designed for the 698 MHz to 2700 MHz bands and is available to ship same day. It features a RIGID SMA-Plug (male) connector. This straight SMA allows the PE51RD1027 to be mounted directly to terminals and other fixed radios. It is a coaxial sleeve design with an omnidirectional pattern. The PE51RD1027 is ideally suited for 4G, LTE, IoT, Zigbee, Z-Wave and Bluetooth bands.

The Pasternack high performance rubber-duck PE51RD1027 is a rubber coated RIGID antenna providing broad coverage and 3 dBi gain. This SMA male rubber duck is suitable for commercial radios in public and private 4G and Cellular networks that are equipped with SMA female connectors. Pasternack's PE51RD1027 supports 700, 800, 850, 900, 1800, 2100, 2400, and 2600 MHz bands.

This 4G 698 MHz to 2700 MHz rubber duck antenna with a SMA male connector, 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	Portable
Band Type	Dual
Radiation Pattern	Omni Directional
Wavelength	1/2
Polarization	Vertical
Connector Type	SMA Male

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	698		2,700	MHz
Input VSWR		2:1	4.5:1	
Impedance		50		Ohms
Gain	1	3		
Horizontal (Azimuth) HPBW		360		Degrees
Vertical (Elevation) HPBW		45		Degrees
Input Power			5	Watts

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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.698 to 0.96	1.71 to 2.7				GHz
Gain	1	3				dBi
Horizontal HPBW	360	360				
Vertical HPBW	60	45				Degrees
VSWR Max	4.5:1	2:1				

Mechanical Specifications

Radome Material	PU
Size	
Length	0.39 in [9.91 mm]
Width	0.39 in [9.91 mm]
Height	2.1 in [53.34 mm]
Weight	0.19 lbs [86.18 g]

Environmental Specifications

Temperature	
Operating Range	-20 to +65 deg C
Storage Range	-30 to +70 deg C
Environment	Waterproof
Humidity	95%
Ingress Protection	IP67

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

Plotted and Other Data

Notes:

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Typical Radiation Pattern

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.

3 dBi DualBand Rubber Duck Portable Antenna 698-2700 MHz SMA Connector 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: [3 dBi DualBand Rubber Duck Portable Antenna 698-2700 MHz SMA Connector PE51RD1027](#)

URL: <https://www.pasternack.com/dual-antenna-698-mhz-2.7-ghz-3-dbi-gain-sma-pe51rd1027-p.aspx>

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PE51RD1027 CAD Drawing
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