



617 to 6000 MHz 4G, 5G, Wi-Fi, GPS Multiband Shark Fin Antenna, SMA Male, RP SMA Male Connectors

Antennas Technical Data Sheet

PEANMOB1000

Features

- Aerodynamic Shark Fin Design
- 600 MHz to 6 GHz
- 2x2 MIMO Cellular, 3x3 MIMO Wi-Fi
- LNA Integrated GPS
- IP69K Rated
- 13ft pig tails
- Auxiliary External Antenna Port

Applications

- Infotainment systems, Routers, Wi-Fi hotspots, HD video transmission, Gateways, Dash cameras, Public transportation
- Connected cars or self-driving cars, Fleet management, Logistics
- Public Safety Networks
- IoT, 4G/5G, Zigbee, Bluetooth, Wi-Fi
- GPS L1, GLONASS G1

Description

The PEANMOB1000 Multiband combination “shark fin” Antenna from Pasternack’s is a high-performance omnidirectional antenna operating from 600 MHz to 6000 MHz and is available to ship same day. It is a UV stabilized, IP69K outdoor rated antenna with black paintable ABS radome. The PEANMOB1000 is ideally suited for vehicle mounted applications where Cellular, Wi-Fi, and GPS bands are needed in a single design.

The Pasternack’s PEANMOB1000 is a mobile antenna providing broad coverage, low latency, increased network capacity and supports 2x2 MIMO (617-960MHz, 1690-6000MHz) and 3x3 MIMO (2400-2500MHz, 4900-6000MHz). This 7-port omnidirectional antenna has multiple connector types all with 13ft cable lengths. This 4G, 5G, Wi-Fi 6, GPS L1, GLONASS G1 combination omni antenna has 3 SMA Male connectors (2 Cellular, 1 GPS) and 3 RPSMA Male connectors (Wi-Fi). PEANMOB1000 also features an auxiliary antenna port with RPSMA Female connector mount with 13ft RG58 cable terminated with RPSMA Male connector. This external port will support an antennas operating from 138 MHz to 6000 MHz with RPSMA Male connector.

Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other Pasternack’s products.

Configuration

Design	Mobile
Application Band	4G 5G Wi-Fi GPS
Band Type	Multi
Radiation Pattern	Omni Directional
Polarization	Vertical
Cable Length	157.5 in [400.05 cm]
Connector Type	SMA Male
Interface 2	SMA Male Reverse Polarity
Number of Ports	7

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	617		6,000	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Noise Figure		2.7		dB

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: [617 to 6000 MHz 4G, 5G, Wi-Fi, GPS Multiband Shark Fin Antenna, SMA Male, RP SMA Male Connectors PEANMOB1000](#)



617 to 6000 MHz 4G, 5G, Wi-Fi, GPS Multiband Shark Fin Antenna, SMA Male, RP SMA Male Connectors

Antennas Technical Data Sheet

PEANMOB1000

Input Power		25	Watts
Operating DC Voltage	3	5	Volts
Current		15	mA

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.617 to 0.96	1.69 to 6	2.4 to 2.5	4.9 to 6	1.562 to 1.612	GHz
Gain	4	6	5	6	26	dBi
VSWR Max	2:1	2:1	2:1	2:1	2:1	

GPS Specifications

Frequency Range	1562 - 1612
VSWR	<2.0:1 ± 4 MHz
LNA Gain	26 dB
Out of band rejection	>40 dB (@ > +/- 100 MHz)
Typical Noise Figure	≤ 2.7 dB
Notch Filter rejection @787MHz	24 dB
Operating Voltage	3 - 5 VDC
Typical Current	15 mA
Cable Type / Length	RG174 / 13 ft [4 m]
Connector Type	SMA Male

Mechanical Specifications

Radome Material	UV Resistant ABS
Size	
Overall Length	11.22 in [284.99 mm]
Width	3.15 in [80.01 mm]
Height	4.33 in [109.98 mm]
Weight	1.89 lbs [857.29 g]
Color	Black

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Humidity	5 to 95
Ingress Protection	IP69K

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [617 to 6000 MHz 4G, 5G, Wi-Fi, GPS Multiband Shark Fin Antenna, SMA Male, RP SMA Male Connectors PEANMOB1000](#)



617 to 6000 MHz 4G, 5G, Wi-Fi, GPS Multiband Shark
Fin Antenna, SMA Male, RP SMA Male Connectors

Antennas Technical Data Sheet

PEANMOB1000

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

Plotted and Other Data

Notes:

617 to 6000 MHz 4G, 5G, Wi-Fi, GPS Multiband Shark Fin Antenna, SMA Male, RP SMA Male Connectors 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: [617 to 6000 MHz 4G, 5G, Wi-Fi, GPS Multiband Shark Fin Antenna, SMA Male, RP SMA Male Connectors PEANMOB1000](#)

URL: <https://www.pasternack.com/617-to-6000-mhz-4g-5g-wi-fi-gps-multiband-shark-fin-antenna-sma-male-rp-sma-male-connectors-peanmob1000-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

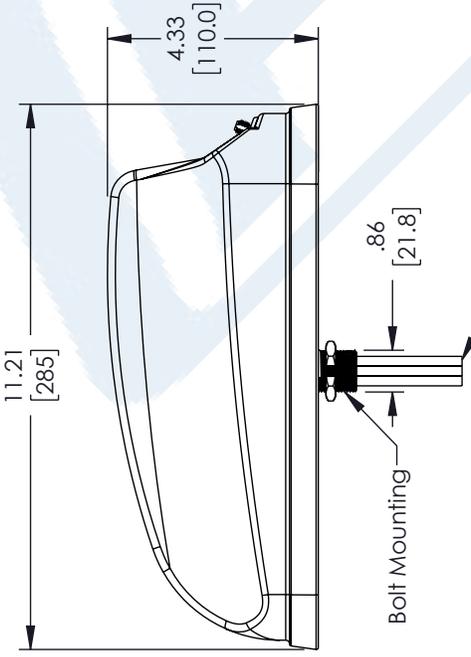
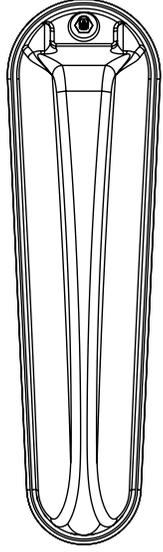
PEANMOB1000 CAD Drawing

617 to 6000 MHz 4G, 5G, Wi-Fi, GPS Multiband Shark Fin Antenna, SMA Male, RP SMA Male Connectors

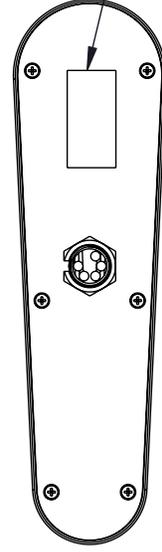
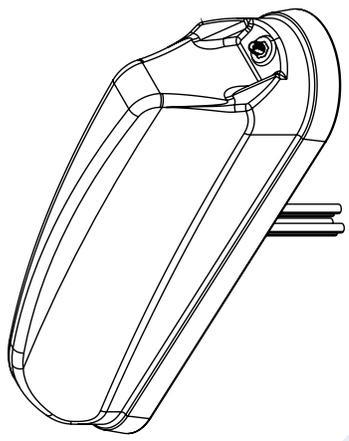
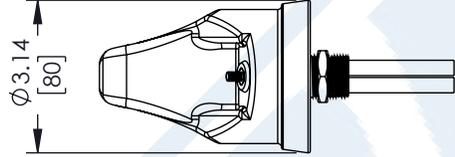
F E D C B A

1 2 3 4 5 6

ZONE		REVISION		CHANGED BY		APPROVED BY	
REV.	DESCRIPTION	DATE					
B	REVISED PER ECO 12479	12/09/2022		PSRINIVAS		KHIETPAS	



- 7 Leads
- 2 x SMA Male - Cellular
- 3 x RPSMA Male - WiFi
- 1 x SMA Male - GPS
- 1 x RPSMA - UHF/VHF/Multiband



NOTES:

1. LABEL PER ILS-100-03 (FOR INTERNAL USE ONLY). LABEL LOCATION SHOWN IS APPROXIMATE.

REGULATORY COMPLIANCE:

EU ROHS DIRECTIVE (MOST RECENT RELEASED VERSION).

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
X = ±.2 [5]	FRACTIONS ± 1/32
XX = ±.02 [.5]	ANGLES ± 1°
XXX = ±.005 [.13]	CABLE LENGTH TOLERANCES:
	≤ 12 [305] = +1 [25] / -0
	> 12 [305] ≤ 60 [1524] = +2 [51] / -0
	> 60 [1524] ≤ 120 [3048] = +4 [102] / -0
	> 120 [3048] ≤ 300 [7620] = +6 [152] / -0
	> 300 [7620] = +5% / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	



Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION
617-6000MHZ WIFI/GPS MULTIBAND SHARK FIN ANTENNA, 7 LEADS

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	SHEET
SCALE	1 OF 1
NONE	

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	PSRINIVAS	PEANMOB1000