



860 MHz to 870 MHz Antenna, Monopole,
SMA Male Connector, 2 dBi Gain

Antennas Technical Data Sheet

PEANRBD1038

Features

- 860-870 MHz, 2 dBi Gain
- SMA male connector
- Plug and play
- VSWR < 2:1
- Linear polarization
- Monopole antenna

Applications

- Public Safety
- Security, construction sites
- IOT sensors and trackers
- Wireless communications
- Remote control
- Industrial monitoring and tracking
- Amateur radio

Description

The Pasternack PEANRBD1038 antenna is an omni antenna operating from 860 MHz to 870 MHz with 2 dBi gain. Our high-quality rubber duck antenna transmits high power signals, increasing the signal strength, thus providing improved coverage, better broadcast control, and faster speed. The SMA male connector on this monopole antenna enables it to be used vertically or at any angle in between.

This PEANRBD1038 antenna is 0.55 inches wide, 3.82 inches long, and 0.55 inches tall. Pasternack's omnidirectional antenna has a maximum input VSWR of 2:1, which results in the best power transfer and reduced losses. This omnidirectional antenna has a linear polarization, an SMA male connector, and an TPEE/ABS radome material. Our black antenna functions between -40 to 65 degrees C and has 50 Ohm impedance.

The Pasternack antenna is ideal for public safety, security, construction, wireless communications, IOT sensors, IOT trackers, wireless microphones, industrial monitoring and data transmission, remote control, and amateur radio. This monopole antenna has a sturdy design and a high power handling capacity. The PEANRBD1038 single-band antenna has a gain of 2 dBi for the 860 MHz to 870 MHz frequency range.

This 2 dBi gain omni directional antenna is one of the thousands of products available from Pasternack's in-stock inventory with same business day shipment for local, domestic, and international orders. Make your online purchase for our high-quality antennas and take advantage of the same business day shipping services. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the perfect 860 MHz to 870 MHz antenna for your requirement.

Configuration

Design	Rubber Duck
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Linear
Connector Type	SMA Male

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	860		870	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		2		dBi

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [860 MHz to 870 MHz Antenna, Monopole, SMA Male Connector, 2 dBi Gain PEANRBD1038](#)



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Input Power

10

Watts

Mechanical Specifications

Radome Material

TPEE/ABS

Size

Overall Length

3.82 in [97.03 mm]

Width

0.55 in [13.97 mm]

Height

0.55 in [13.97 mm]

Weight

0.0242 lbs [10.98 g]

Environmental Specifications

Temperature

Operating Range

-40 to +65 deg C

Storage Range

-40 to +80 deg C

Environment

Waterproof

Ingress Protection

IPx7

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

Plotted and Other Data

Notes:

860 MHz to 870 MHz Antenna, Monopole, SMA Male Connector, 2 dBi Gain 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.

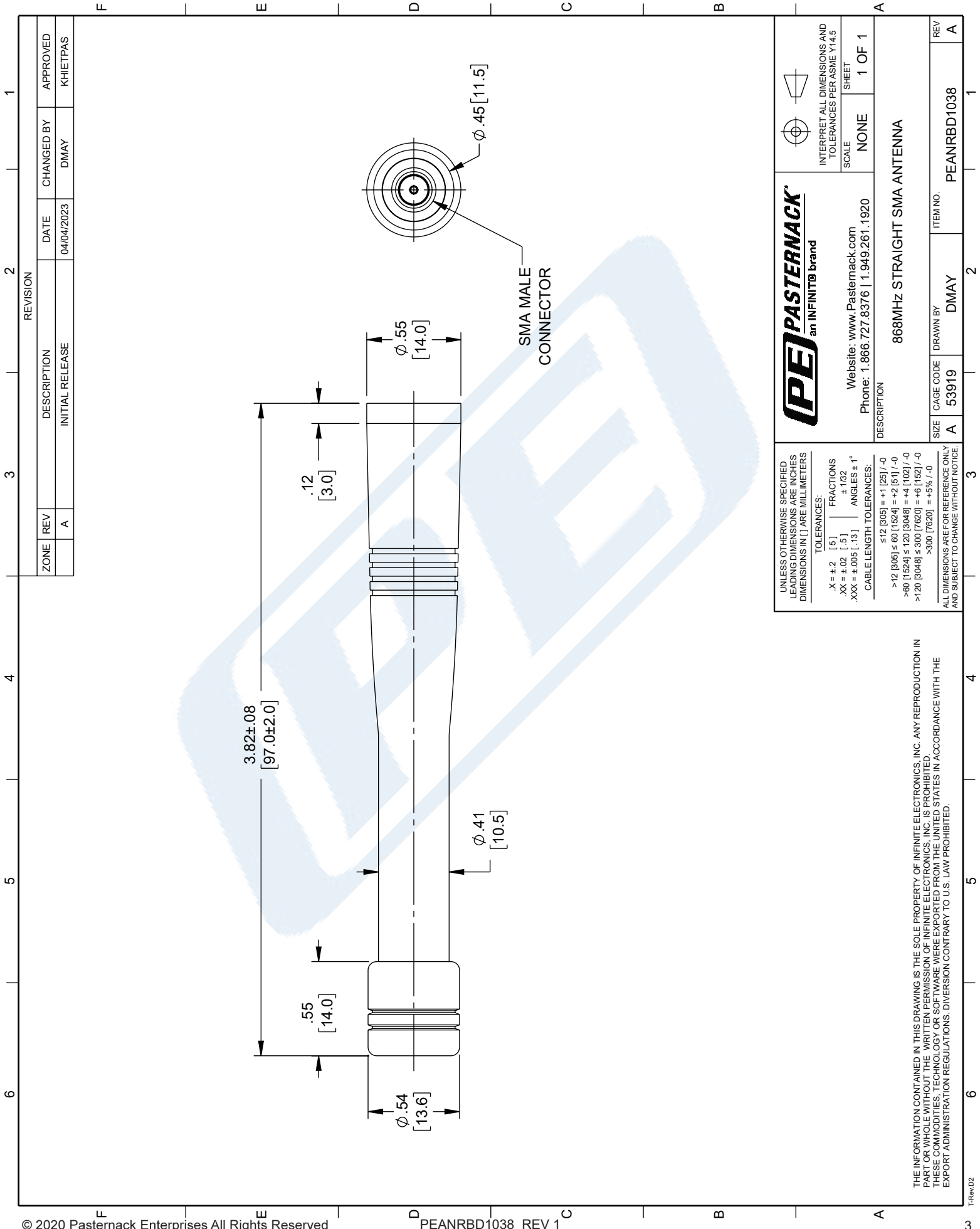
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URL:

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.

PEANRBD1038 CAD Drawing

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	04/04/2023	DMAY	KHIETPAS

PE PASTERNAK an INFINITO brand		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: 868MHz STRAIGHT SMA ANTENNA		REV: A
SIZE: A	CAGE CODE: 53919	ITEM NO.: PEANRBD1038
DRAWN BY: DMAY		1

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ±.2	[.5]	FRACTIONS
.XX = ±.02	[.5]	±.1/32
.XXX = ±.005	[.13]	ANGLES ± 1°

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
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