



3.5 dBi, VHF Rubber Duck Antenna, 139-174 MHz, BNC Connector, Vertical Polarization

Antennas Technical Data Sheet

PEANRBD1013

Features

- 139 MHz to 174 MHz, 3.5 dBi Gain
- BNC connector
- Telescopic radiator
- Plug and play
- 20W power handling
- VSWR < 3:1
- Vertical polarization

Applications

- PtP or PtMP applications
- Trunking for two-way radio comms
- VHF applications
- Public Safety / Emergency services
- Marine / Rail road communications
- P-25 applications exclusively supported
- Land mobile radio (LMR)
- Fixed and mobile services

Description

The PEANRBD1013 rubber duck antenna from Pasternack is part of our extensive line of directional antennas that we offer with global same-day shipping from our facilities certified to ISO 9001:2015. Pasternack's high-quality single-band rubber duck antenna has a 3.5 dBi nominal gain and can be procured with no order limit. This rubber duck single-band 3.5 dBi antenna has a frequency range of 139 MHz to 174 MHz.

We lead the industry in supplying products like this 139 MHz to 174 MHz single-band antenna, along with other RF, microwave, and millimeter wave components. This rubber duck antenna from Pasternack uses a BNC connector and has a maximum input power of 20 watts. Use our single-band rubber duck antenna with vertical polarization for fixed and mobile services, public safety or emergency services, trunking for two-way radio communications, marine or rail road communications, land mobile radio (LMR), PtP or PtMP, and P-25 applications.

Pasternack's rubber duck antenna with 3.5 dBi gain has a BNC-type connector. This BNC-series connectorized omnidirectional antenna is 0.5 inches tall, 0.5 inches wide, and 8.66 inches long. The PEANRBD1013 VHF antenna has 360-degrees of horizontal and 70-degrees of vertical HPBW. Our high-quality antenna has a maximum input VSWR (voltage standing wave ratio) of 3:1.

Pasternack's 50 Ohms impedance antenna can operate at temperatures ranging from -40 °C to 60 °C. This single-band rubber duck antenna is offered with expert technical support, PDF datasheets, and CAD drawings with dimensions and specifications. Order your 3.5 dBi VHF rubber duck antennas now and enjoy our international or domestic same-day shipping.

Configuration

Design	Rubber Duck
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	BNC

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	139		174	MHz
Input VSWR			3:1	
Impedance		50		Ohms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5 dBi, VHF Rubber Duck Antenna, 139-174 MHz, BNC Connector, Vertical Polarization PEANRBD1013](#)



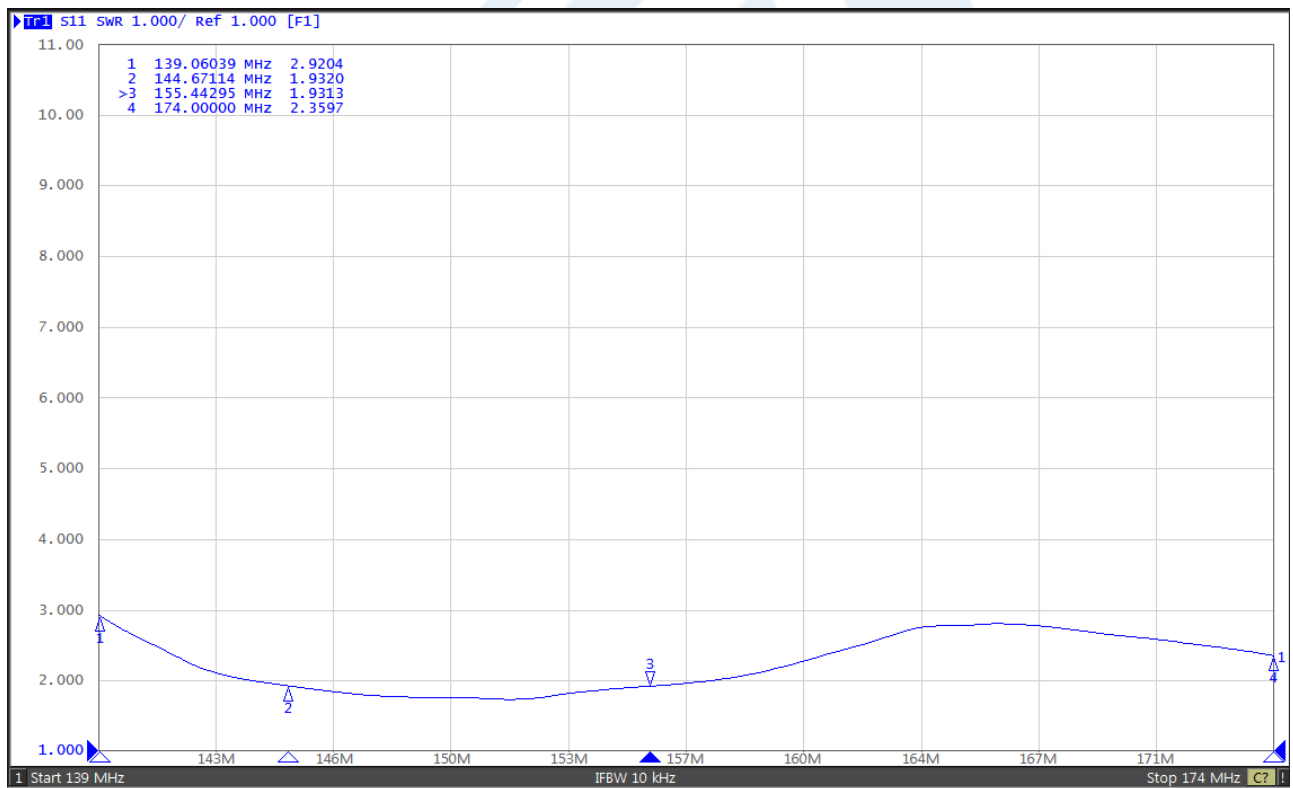
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Gain	3.5	dBi
Horizontal (Azimuth) Beam Width	Omnidirectional	
Vertical (Elevation) Beam Width	70	Degrees
Input Power	20	Watts

VSWR plot:



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Mechanical Specifications

Size

Overall Length	8.66 in [219.96 mm]
Width	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.15 lbs [68.04 g]

Environmental Specifications

Temperature

Operating Range	-40 to +60 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

3.5 dBi, VHF Rubber Duck Antenna, 139-174 MHz, BNC Connector, Vertical Polarization 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.

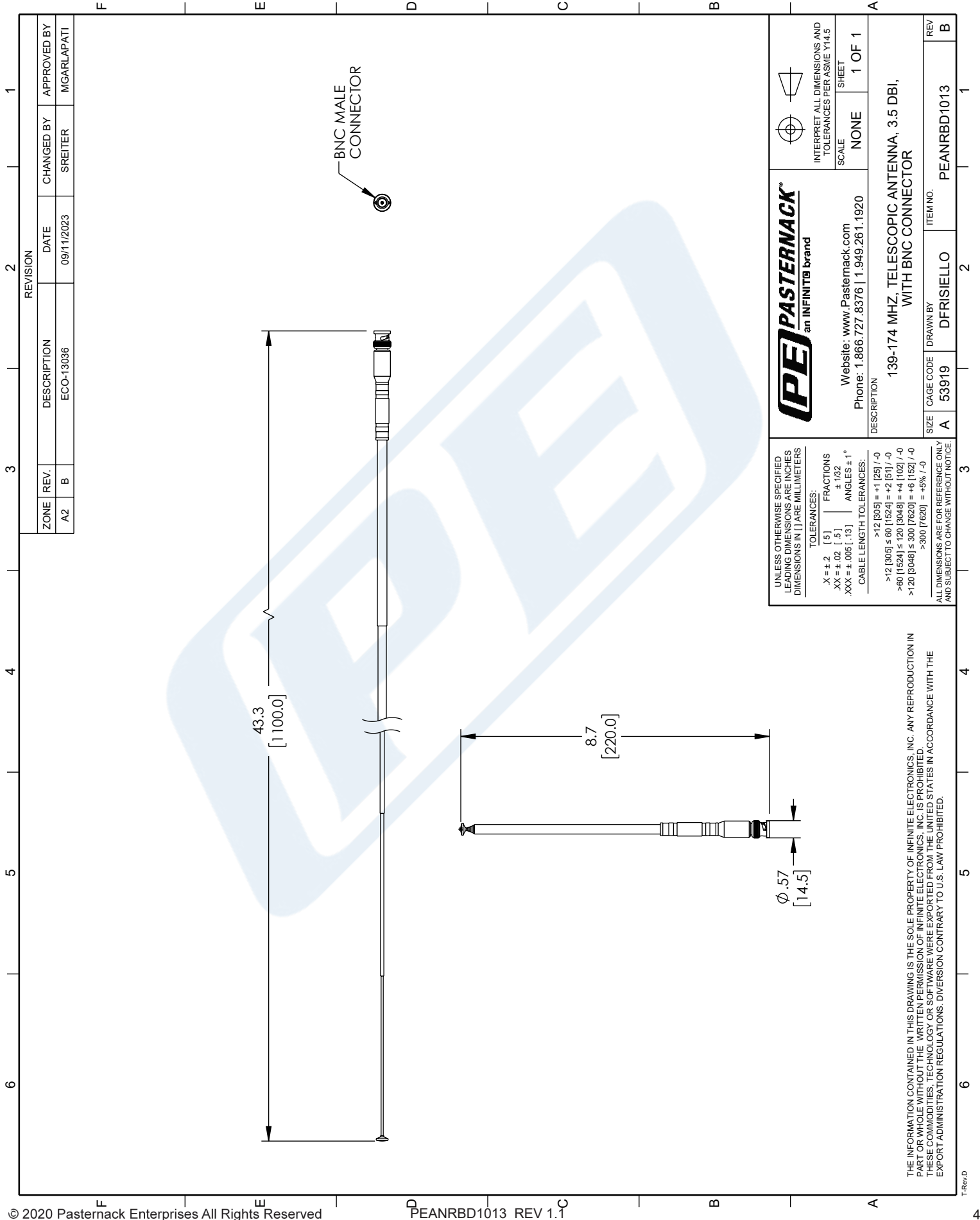
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5 dBi, VHF Rubber Duck Antenna, 139-174 MHz, BNC Connector, Vertical Polarization PEAN-RBD1013](#)

URL: <https://www.pasternack.com/3.5-dbi-vhf-rubber-duck-antenna-139-174-mhz-bnc-connector-vertical-polarization-pean-rbd1013-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.

PEANRBD1013 CAD Drawing

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REVISION			
ZONE	REV.	DESCRIPTION	DATE
A2	B	ECO-13036	09/11/2023
		CHANGED BY	MGARLAPATI
		SREITER	

[PE] PASTERNAK an INFINITE® brand Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION 139-174 MHZ, TELESCOPIC ANTENNA, 3.5 DBI, WITH BNC CONNECTOR		REV B
SIZE A	CAGE CODE 53919	ITEM NO. PEANRBD1013
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] ≤ 60 [1524] = +1 [25] / -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		SIZE A

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