

1.8 dBi, VHF Rubber Duck Antenna, 139-149 MHz, BNC-Male Connector, Vertical Polarization



PEANRBD1008

Features

- 139 MHz to 149 MHz, 1.8 dBi Gain
- BNC connector
- Heliflex whip antenna
- 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 PEANRBD1008 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 1.8 dBi nominal gain and can be procured with no order limit. This rubber duck single-band 1.8 dBi antenna has a frequency range of 139 MHz to 149 MHz.

We lead the industry in supplying products like this 139 MHz to 149 MHz single-band antenna, along with other RF, microwave, and millimeter wave components. This rubber duck antenna from Pasternack uses a BNC-Male 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 1.8 dBi gain has a BNC-Male-type connector. This BNC-Male-series connectorized omnidirectional antenna is 0.5 inches tall, 0.5 inches wide, and 5.9 inches long. The PEANRBD1008 VHF antenna has 360-degrees of horizontal and 90-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 1.8 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 Male

Electrical Specifications

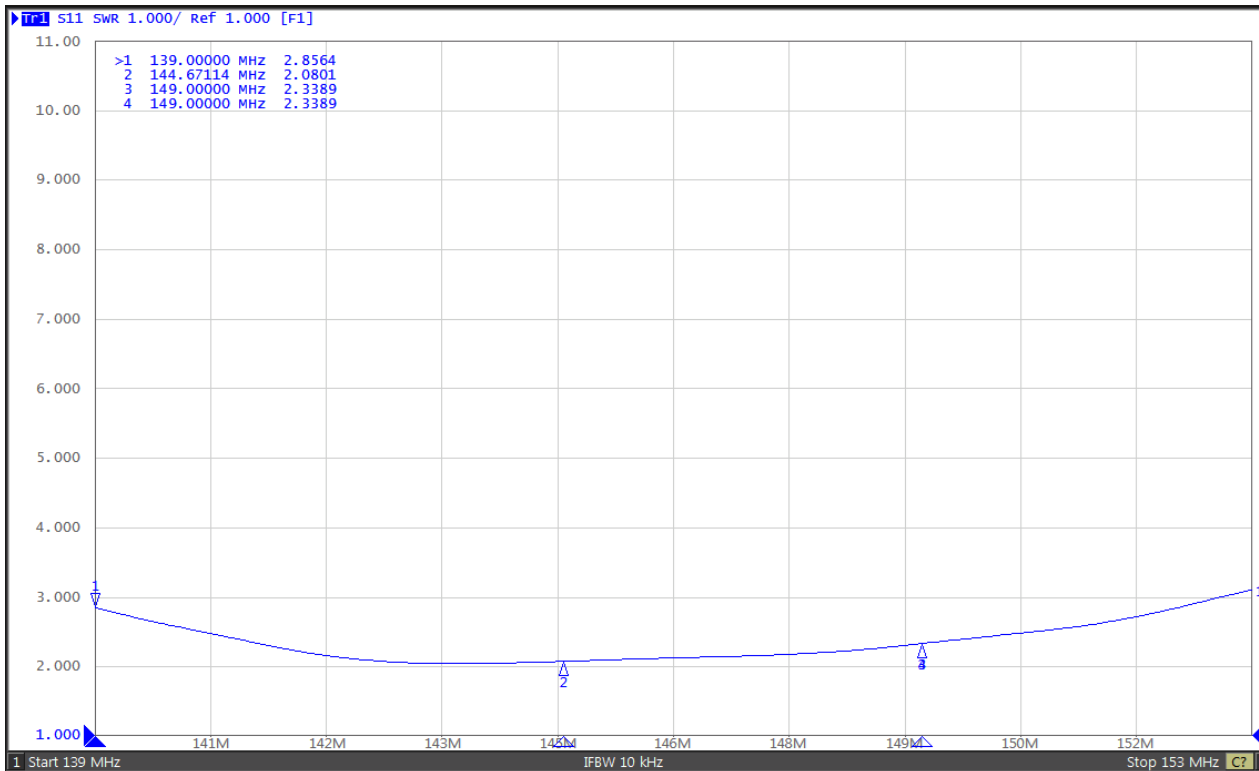
Description	Minimum	Typical	Maximum	Units
Frequency Range	139		149	MHz
Input VSWR			3:1	
Impedance		50		Ohms
Gain		1.8		dBi
Horizontal (Azimuth) HPBW		360		Degrees
Vertical (Elevation) HPBW		90		Degrees
Input Power			20	Watts

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VSWR plot:



Mechanical Specifications

Radome Material	PE
Size	
Length	5.9 in [149.86 mm]
Width	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.05 lbs [22.68 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C

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PEANRBD1008

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

Plotted and Other Data

Notes:

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.

1.8 dBi, VHF Rubber Duck Antenna, 139-149 MHz, BNC-Male 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.

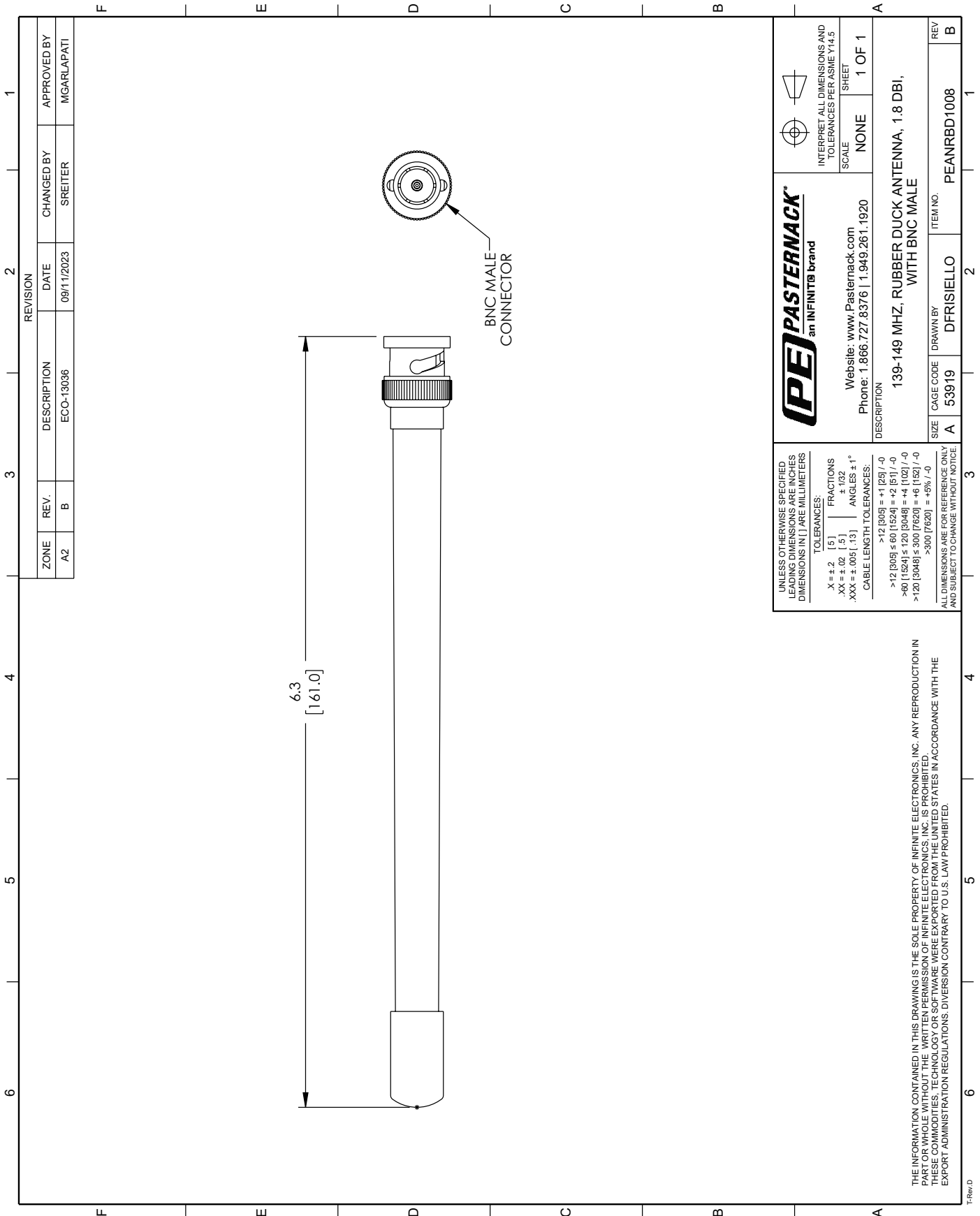
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.8 dBi, VHF Rubber Duck Antenna, 139-149 MHz, BNC-Male Connector, Vertical Polarization PEANRBD1008](#)

URL: <https://www.pasternack.com/1.8-dbi-vhf-rubber-duck-antenna-139-149-mhz-bnc-j-connector-vertical-polarization-peanrbd1008.html>

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PEANRBD1008 CAD Drawing

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

	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
	Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920
DESCRIPTION 139-149 MHZ. RUBBER DUCK ANTENNA, 1.8 DBI, WITH BNC MALE	
SIZE: A CAGE CODE: 53919 DRAWN BY: DFRISIELLO	ITEM NO.: PEANRBD1008

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN 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
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +8% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

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