Folded Dipole Antenna with 136 to 174 MHz, 3 dBi, N Female, Vertical Polarization, 1 Port, 1.5 VSWR

PEANED1012

Features

- Frequency coverage for 136 MHz to 174 MHz with Type N Female connector and gain 3 dBi / 0.85 dBd antenna
- Multiple Folded dipoles can be mouted on a mast for best performance
- Feild adjustable radition patterns with 100W max input power per port
- Easy and quick time to installations with U-Bolt mounts
- Industrially tuned folded dipole allows plug and play
- Weather and corrision free made of high-grade aluminum alloys
- Vertical Polarization

Applications

- Outdoor point-to-point (PtP) or point-to-multipoint (PtMP) applications
- VHF radio applications supported with Trunking for two-way radio communications
- Public Safety / Emergency services / Marine communications / Rail road communications
- Tetra and P-25 Applications exclusively supported
- Land Mobile Radio (LMR) and Private Mobile Radio (PMR)
- Fixed and mobile services for paging/voice/data in full duplex and half duplex mode

Description

Pasternack's PEANED1012 3 dBi folded dipole antenna, with N female connector, is an economical yet high-performance antenna designed for high-power applications. The folded dipole antenna's beamwidth can be adjusted according to applications by fixing dipoles at certain heights and directions. This high gain 3 dBi antenna transmits high-power signals, increasing the signal strength and thus providing improved coverage, better-broadcast control, and faster speed. This folded dipole antenna can output frequencies from 136 to 174 MHz, which is useful for military communications, trunking, public safety, industrial communication, and amateur radio applications.

Pasternack's folded dipole antenna uses vertical polarization to transmit signals, thus reducing interference and performing better at lower heights. All components of this 3 dBi antenna are DC grounded for lightning protection, rugged outdoor design, and have a high-power handling capacity. The folded dipole antenna has 1 port to connect an external circuit with 100W maximum input power per port.

This Pasternack's 136 to 174 MHz VHF/UHF antenna is one of the simplest and most widely used antenna producing radiation patterns like that of an electric dipole. PEANED1012 folded dipole antenna is a dipole stand-alone made of aluminum alloy, and thus packaging, transportation, and installation become easier. It has a 1.5 VSWR that results in the best power transfer and reduced losses. It comes with a threaded and weatherproof N female connector type which ensuring a reliable physical connection and can be fixed on a pole using the U-bolt brackets that come with the antenna.

PEANED1012 antenna with a 3 dBi maximum gain is ideal for LMR, military, airports, construction, mining, commercial applications, and radio users. This PEANED1012 folded dipole antenna from Pasternack comes in compact packaging for lower shipping costs. Pasternack's 136 to 174 MHz, 3 dBi folded dipole antenna with a N female connector is in stock and ready to ship the same day. Contact Pasternack's knowledgeable and friendly technical support and sales staff for your answers on antennas or other products.

Configuration

Design	Dipole
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Ground

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	136		174	MHz
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain			3	
Input Power			100	Watts

Mechanical Specifications

Radome Material	Aluminum Alloy
Size	
Length	35.9 in [911.86 mm]
Width	40.6 in [103.12 cm]
Height	1.3 in [33.02 mm]
Weight	15.84 lbs [7.18 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +80 deg C

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.

Folded Dipole Antenna with 136 to 174 MHz, 3 dBi, N Female, Vertical Polarization, 1 Port, 1.5 VSWR 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: Folded Dipole Antenna with 136 to 174 MHz, 3 dBi, N Female, Vertical Polarization, 1 Port, 1.5 VSWR PEANED1012

URL: https://www.pasternack.com/antenna-136-174-mhz-n-type-female-connector-peaned1012.html

PEANED1012 CAD Drawing

Folded Dipole Antenna with 136 to 174 MHz, 3 dBi, N Female, Vertical Polarization, 1 Port, 1.5 VSWR