Exposed Dipole Antenna with 400 to 470 MHz, 3 dBi, N Female, Vertical Polarization, 1 Port, 1.5 VSWR

PEANED1015

Features

- Frequency coverage for 400 MHz to 470 MHz with Type N Female connector and gain 3 dBi / 0.85 dBd antennas
- Multiple exposed 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
- UHF 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 PEANED1014 3 dBi Exposed dipole antenna, with N female connector, is an economical yet high-performance antenna designed for high-power applications. The Exposed 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 Exposed dipole antenna can output frequencies from 400 to 470 MHz, which is useful for military communications, trunking, public safety, industrial communication, and amateur radio applications.

Pasternack's Exposed 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 Exposed dipole antenna has 1 port to connect an external circuit with 100W maximum input power per port.

This Pasternack's 400 to 470 MHz VHF/UHF antenna is one of the simplest and most widely used antenna producing radiation patterns like that of an electric dipole. PEANED1014 Exposed 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.

PEANED1014 antenna with a 3 dBi maximum gain is ideal for LMR, military, airports, construction, mining, commercial applications, and radio users. This PEANED1014 Exposed dipole antenna from Pasternack comes in compact packaging for lower shipping costs. Pasternack's 400 to 470 MHz, 3 dBi Exposed 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	400		470	MHz
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain			3	
Input Power			100	Watts

Mechanical Specifications

Radome Material	Aluminum Alloy
Size	
Length	12.5 in [317.5 mm]
Width	12 in [304.8 mm]
Height	2 in [50.8 mm]
Weight	10.56 lbs [4.79 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.

Exposed Dipole Antenna with 400 to 470 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: Exposed Dipole Antenna with 400 to 470 MHz, 3 dBi, N Female, Vertical Polarization, 1 Port, 1.5 VSWR PEANED1015

URL: https://www.pasternack.com/antenna-400-470-mhz-n-type-female-connector-peaned1015.html

PEANED1015 CAD Drawing

Exposed Dipole Antenna with 400 to 470 MHz, 3 dBi, N Female, Vertical Polarization, 1 Port, 1.5 VSWR