



Antennas Technical Data Sheet

PE51MP1011

Features

- Compactive Coupled Desing Optimizes LTE Signal Performance while Maintaining Low-Profile Tapered Form Factor
- Flexible Elastomeric Polymer Housing Resist High Speed Impact and Damage from low hanging obstructions
- Dust and O-ring Seals for Reliable High Pressure Car Wash & Waterproof Performance (IP66)
- Design Incorporates Expanded Frequency Range and Reduced Height
- Patented Multi-band Performance to Comply Simultaneously with all LTE Operational Bands

Applications

- · Service Vehicles
- Public Safety

- Public Transportation
- Mining & Construction

Description

This multi-band compact UHF mobile omnidirectional antenna is ideally suited for multipoint mobile applications including service vehicles, public transportation, public safety, mining and construction vehicles, as well numerous other commercial and industrial applications where mobility and wide coverage is desired. This antenna features a flexible Poly Spring base. Unlike the traditional metal spring base, the Poly Spring will not corrode and does not generate electrical noise when flexed during use. It has a standard TAD/NMO Motorola-type mobile base.

Configuration

Design
Application Band
Band Type

Radiation Pattern Polarization Ground Plane Connector Type

Housing Material and Plating

Vehicular UHF Multi

Omni Directional Linear, Vertical Required NMO Mount

Brass, Black Chrome

Electrical Specifications

Description	Minimum	Typical	Maximum	Units		
Frequency Range	450		960	MHz		
Input VSWR		1.5:1	2:1			
Impedance		50		Ohms		
Gain		2		dBi		
Horizontal (Azimuth) Beam Width	Omnidirectional					
Vertical (Elevation) Beam Width		70		Degrees		
Input Power			150	Watts		

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	450-520	746-960				MHz
Gain	2	2	-	-		dBi

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2 dBi Poly Flex Vehicular Antenna 450-520/746-960 MHz NMO Mount Connector PE51MP1011

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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Mechanical Specifications

Radome Material Housing Material Housing Plating/Color Mounting Application Base Diameter Height Xenoy™ Brass Black Chrome NMO Mount 1.6 in [40.64 mm] 4.95 in [125.73 mm]

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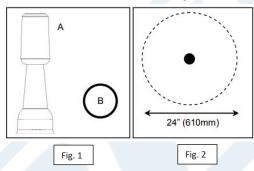
PE51MP1011

Installation Instructions PE51MP1011 (450-520/746-960 MHz) LMR POLY PRO LOW PROFILE MULTI-BAND NMO BAND ANTENNA

Congratulations on your selection of another quality antenna product from Pasternack.

Pasternack is committed to continually provide the greatest antenna VALUE for your wireless applications.

- 1. Parts (Figure 1): Verify all parts are included with the antenna as shown in Fig. 1.
 - A. Antenna
 - B. O-ring

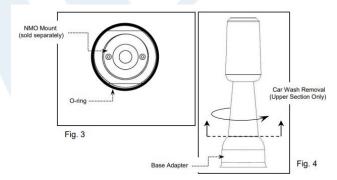


2. Pre-Installation (Fig. 2)

- A. The PE51MP1011 antenna is designed for installation to a high quality, low loss NMO mount (sold separately, see Fig. 3).
- B. For best performance, the metallic ground-plane installation surface should be approximately 24" (610mm) diameter or greater.
- C. Verify that the surface immediately surrounding the NMO mount is flat, properly cleaned and clear of obstructions.

3. Installation

- A. Press O-ring around the base of the NMO antenna mount as shown in Figure 3.
- B. Thread antenna onto NMO mount. Tighten with firm hand torque until O-ring is completely seated against mounting surface.
- C. CAR WASH REMOVAL (Fig. 4): Using one hand, hold the antenna at the base adapter with a firm grip. Using the opposite hand, detach the Poly Spring from the vase by unthreading with a Counter Clockwise (CCW) rotation. Note: Leave the NMO Base adapter attached to the NMO mount to protect the mount from water and debris.



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Environmental Specifications

Temperature

Operating Range

Humidity

Vibration

Corrosion

-40 to +85 deg C

95%

AAR & MIL-STD810E

Salt Fog & Automotive Fluids

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

2 dBi Poly Flex Vehicular Antenna 450-520/746-960 MHz NMO Mount Connector 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: https://www.pasternack.com/multi-antenna-450-960-mhz-2-dbi-gain-nmo-mount-pe51mp1011-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.

PE51MP1011 CAD Drawing

2 dBi Poly Flex Vehicular Antenna 450-520/746-960 MHz NMO Mount Connector

