

## Antennas Technical Data Sheet

#### **Features**

- Design Incorporates Expanded Frequency Range and Reduced Height
- Compactive Coupled Design Optimizes LTE Signal Performance while Maintaining Low-Profile Tapered Form Factor

### **Applications**

- Service Vehicles
- Public Safety

- Public Transportation
- Mining & Construction

#### Description

This compact multi-band 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.

tions

#### Configuration

Design Band Type Radiation Pattern Polarization Ground Plane Connector Type Housing Material and Plating Vehicular Multi Omni Directional Linear, Vertical Required NMO Mount Brass, Black Chrome

### **Electrical Specifications**

Description	Minimum Typical		Maximum	Units			
Frequency Range	698		2,700	MHz			
Input VSWR		1.5:1	2:1				
Impedance		50					
Horizontal (Azimuth) Beam Width		Omnidirectional					
Vertical (Elevation) Beam Width		70		Degrees			
Input Power			100	Watts			

### Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	698-960	1,710-2,150	2,150-2,700			MHz
Gain	2	3	5			dBi

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2/3/5 dBi Poly Flex Vehicular Antenna 698-960/1710-2700 MHz NMO Mount Connector PE51MP1010

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

Sales@Pasternack.com • Techsupport@Pasternack.com



• Dust and O-Ring Seals for Reliable High Pressure Car

Speed Impact and Damage from low hanging obstruc-

Flexible Elastomeric Polymer Housing Resist High

Wash & Waterproof Performance (IP66)

### PE51MP1010



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### Mechanical Specifications

Radome Material Housing Material Housing Plating/Color Mounting Application Base Diameter Height



### **PE51MP1010**

Elastomeric Polymer Brass Black Chrome NMO Mount 1.6 in [40.64 mm] 3.63 in [92.2 mm]

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PE51MP1010

### Installation Instructions PE51MP1010 (698-960/1710-2700 MHz) LTE POLY PRO LOW PROFILE MULTI-BAND NMO MOUNT 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 B 14" (355mm) Fig. 1 Fig. 2 2. Pre-Installation (Fig. 2) A. The PE51MP1010 antenna is designed for installation to a high quality, low loss NMO mount (sold separately, see Fig.3). For best performance, the metallic ground-plane installation surface should be approximately 14" (335mm) diameter Β. 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. CAR WASH REMOVAL (Fig. 4): Using one hand, hold the antenna at the base adapter with a firm grip. Using the C. 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. NMO Mount (sold separately) Car Wash Removal (Upper Section Only) O-ring Fig. 3 Base Adapte Fig. 4 Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2/3/5 dBi Poly Flex Vehicular Antenna 698-960/1710-2700 MHz NMO Mount Connector

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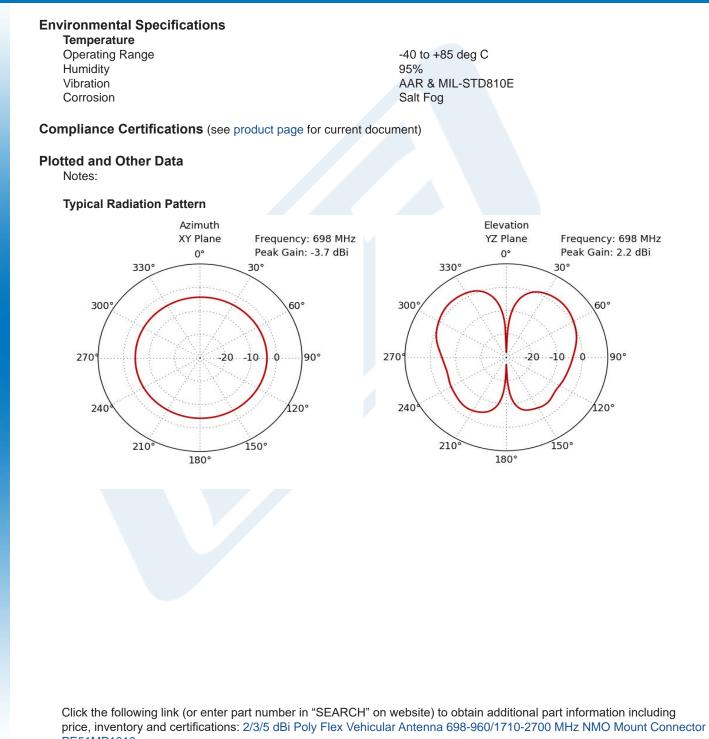


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## PE51MP1010



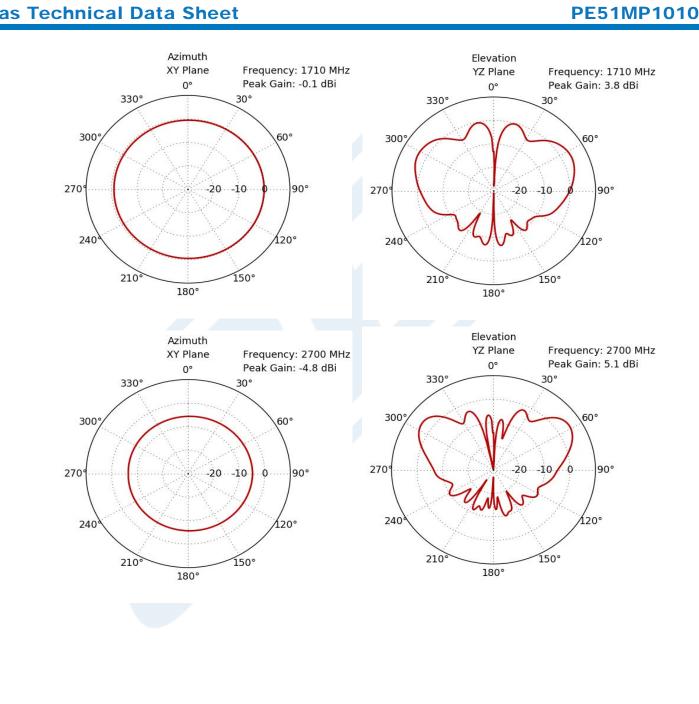
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## **Antennas Technical Data Sheet**

## PE51MP1010

2/3/5 dBi Poly Flex Vehicular Antenna 698-960/1710-2700 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-698-mhz-2.7-ghz-0-gain-nmo-mount-pe51mp1010-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.

# PE51MP1010 CAD Drawing

2/3/5 dBi Poly Flex Vehicular Antenna 698-960/1710-2700 MHz NMO Mount Connector

