

### **Antennas Technical Data Sheet**

#### **Features**

- Wide band performance; no tuning required
- NMO Mount, Black Chrome Finish
- · One-piece 17-7 Stainless steel open coil whip
- Flexible Black Polymer Alloy Spring

#### **Applications**

- Service Vehicles
- Public Safety

- Public Transportation
  Mining & Construction
- Mining & Construction

#### Description

This ground plane independent 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

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Design	Vehicular
Application Band	UHF
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Linear, Vertical
Ground Plane	Independent
Connector Type	NMO Mount

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	440		480	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		3		dBd
Horizontal (Azimuth) Beam Width		Omnidirectional		
Vertical (Elevation) Beam Width		35		Degrees
Input Power			150	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 3 dBd Ground Independent Poly Spring Vehicular Antenna 440-480 MHz NMO Mount Connector PE51MP1008

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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· O-ring seal for waterproof construction

and grip ring

• Durable Xenoy<sup>™</sup> base with TPV over mold dust seal



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### **Mechanical Specifications**

Base Material Whip Material Whip Finish Mounting Application Spring Material

Size Overall Length Xenoy™ w/TPV over mold grip 17-7 SS Black Chrome ¾ inch thru-hole NMO Mount Black Molded Polymer Alloy

31.25 in [793.75 mm]

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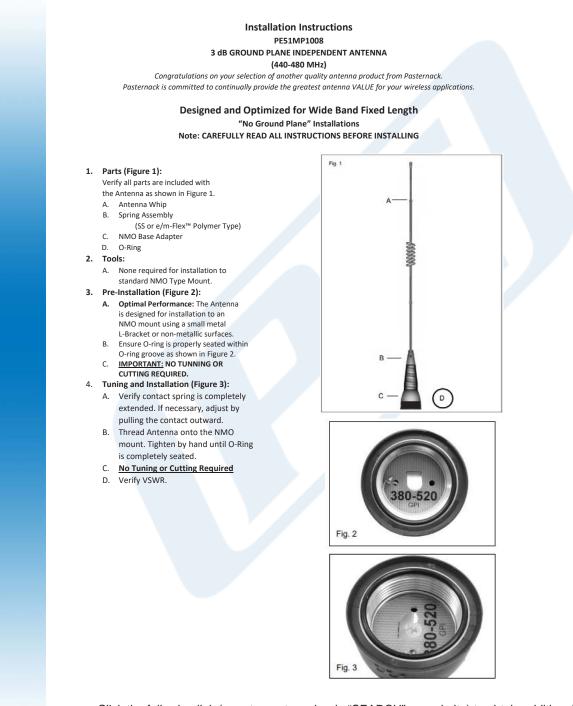
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#### **Antennas Technical Data Sheet Environmental Specifications** Temperature **Operating Range** -40 to +85 deg C Humidity 95% Corrosion Salt Fog Compliance Certifications (see product page for current document) **Plotted and Other Data** Notes: **Typical Radiation Pattern** Azimuth Elevation Frequency: 460 MHz Frequency: 460 MHz **XY Plane** YZ Plane Peak Gain: 4.7 dBi Peak Gain: 4.7 dBi 0° 0° 330° 30° 330° 30° 300 60° 300 60° 90° 90° -20 -- 10 ---0 270 -20 -10 0 270 120° 120° 240 240 150° 210 150° 210 180° 180° Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 3 dBd Ground Independent Poly Spring Vehicular Antenna 440-480 MHz NMO Mount Connector PE51MP1008

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3 dBd Ground Independent Poly Spring Vehicular Antenna 440-480 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/single-antenna-440-480-mhz-3-dbd-gain-nmo-mount-pe51mp1008-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.

# PE51MP1008 CAD Drawing

3 dBd Ground Independent Poly Spring Vehicular Antenna 440-480 MHz NMO Mount Connector

