

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



**HG445PSGI-NMO**

**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
- O-ring seal for waterproof construction
- Durable Xenoy™ base with TPV over mold dust seal and grip ring

**Applications**

- Service Vehicles
- Public Safety
- Public Transportation
- 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**

Design	Vehicular
Application Band	UHF
Band Type	Wide
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

**Mechanical Specifications**

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 WideBand Poly Spring Vehicular Antenna 440-480 MHz NMO Mount Connector HG445PSGI-NMO](#)

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

## HG445PSGI-NMO



---

Base Material	Xenoy™ w/TPV over mold grip
Whip Material	17-7 SS
Whip Finish	Black Chrome
Mounting Application	¾ inch thru-hole NMO Mount
Spring Material	Black Molded Polymer Alloy
<b>Size</b>	
Length	31.25 in [793.75 mm]

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

**HG445PSGI-NMO**



**Installation Instructions**

**HG445PSGI-NMO  
3 dB GROUND PLANE INDEPENDENT ANTENNA  
(440-480 MHz)**

*Congratulations on your selection of another quality antenna product from L-COM.  
L-COM is committed to continually provide the greatest antenna VALUE for your wireless applications.*

**Designed and Optimized for Wide Band Fixed Length  
“No Ground Plane” Installations**

**Note: CAREFULLY READ ALL INSTRUCTIONS BEFORE INSTALLING**

**1. Parts (Figure 1):**

Verify all parts are included with the Antenna as shown in Figure 1.

- A. Antenna Whip
- B. Spring Assembly  
(SS or e/m-Flex™ Polymer Type)
- C. NMO Base Adapter
- D. O-Ring

**2. Tools:**

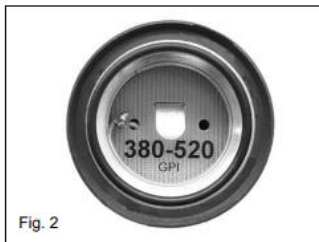
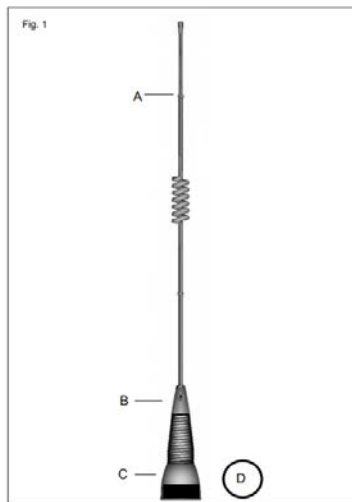
- A. None required for installation to standard NMO Type Mount.

**3. Pre-Installation (Figure 2):**

- A. **Optimal Performance:** The Antenna is designed for installation to an NMO mount using a small metal L-Bracket or non-metallic surfaces.
- B. Ensure O-ring is properly seated within O-ring groove as shown in Figure 2.
- C. **IMPORTANT: NO TUNNING OR CUTTING REQUIRED.**

**4. Tuning and Installation (Figure 3):**

- A. Verify contact spring is completely extended. If necessary, adjust by pulling the contact outward.
- B. Thread Antenna onto the NMO mount. Tighten by hand until O-Ring is completely seated.
- C. **No Tuning or Cutting Required**
- D. Verify VSWR.



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



**HG445PSGI-NMO**

**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

Humidity

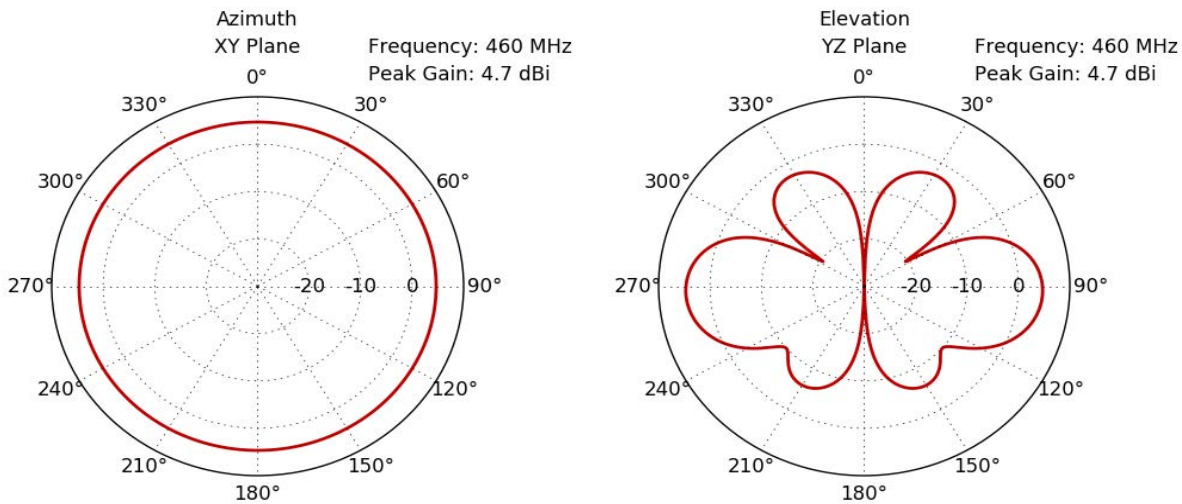
95%

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**Typical Radiation Pattern**



3 dBd Ground Independent WideBand Poly Spring Vehicular Antenna 440-480 MHz NMO Mount Connector from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within 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 impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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

## L-com CAD Drawing

