

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

HG4574PF-NMO



Features

- Compact Coupled Design 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	Vehicular
Application Band	UHF
Band Type	Multi
Radiation Pattern	Omni Directional
Polarization	Linear, Vertical
Ground Plane	Required
Connector Type	NMO Mount
Housing Material and Plating	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

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 HG4574PF-NMO](#)

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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

Mechanical Specifications

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

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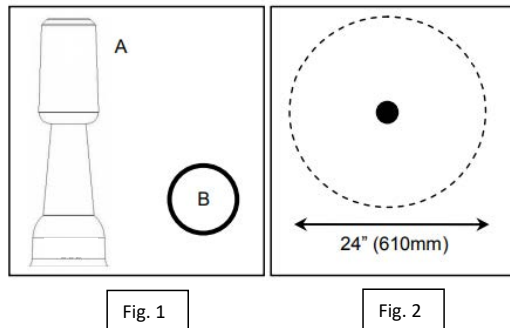


Installation Instructions HG4574PF-NMO (450-520/746-960 MHz) LMR POLY PRO LOW PROFILE MULTI-BAND NMO BAND ANTENNA

*Congratulations on your selection of another quality antenna product from L-COM.
L-COM 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

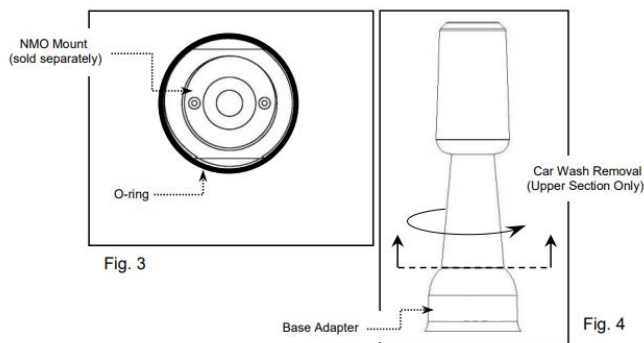


2. Pre-Installation (Fig. 2)

- 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

-40 to +85 deg C

Humidity

95%

Vibration

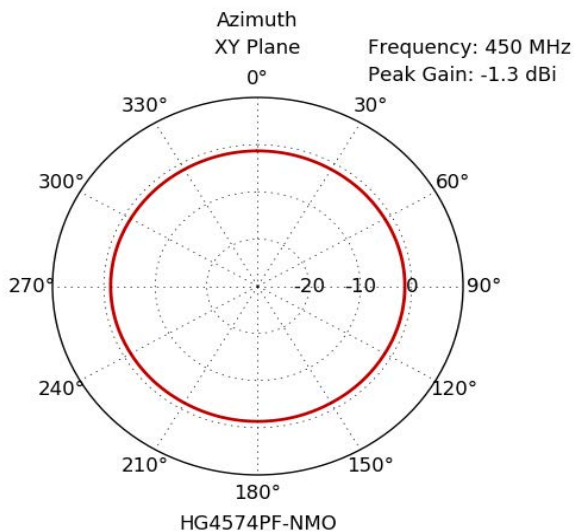
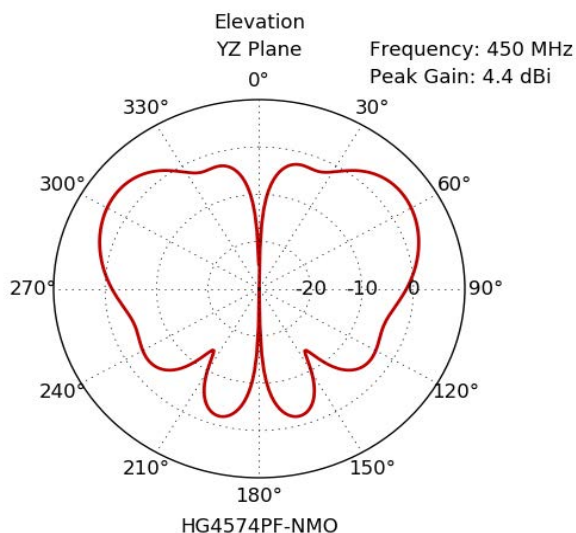
AAR & MIL-STD810E

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

Plotted and Other Data

Notes:

Typical Radiation Pattern



2 dBi Poly Flex Vehicular Antenna 450-520/746-960 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 implement 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.

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L-com CAD Drawing

