

**Series: NMO mount  
Low Profile**

**Description: LP, 740-960MHz, 3.7dBi, NMO**

**PART NUMBER: LP78NMO, LP78NMOW (White)**



### Features:

- 740-960MHz
- Omni radiation pattern
- Average peak gain 3.7 dBi
- Power rating 100W
- Size Dia. 113.2mm (4.46")
- Height 32mm (1.26")
- NMO mount

### Applications:

- Public Safety
- FirstNet Band14 Compliant
- LMR
- Transportation
- Vehicular applications

Issue: 1737

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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### ELECTRICAL SPECIFICATIONS

Antenna type	Monopole, Measured on Ø1.02m (40") ground plane
Frequency	740-960 MHz
Nominal Impedance	50 Ω
VSWR	2:1
Average peak gain	3.7 dBi
Average efficiency	75 %
Radiation Pattern	Omni
HPBW / Vertical Plane	37 °
Polarization	Vertical
Power withstanding	100 W

### MECHANICAL SPECIFICATIONS

Diameter / height	113.2 / 35.2mm (4.46" / 1.26")
Weight	153 g (.34lbs)
Antenna Color / Material	Black (W) White / Makroblend®
Connector type	NMO

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40° to +70° C
Ingress Protection	IP65
RoHS Compliant	Yes

### OTHER SPECIFICATIONS

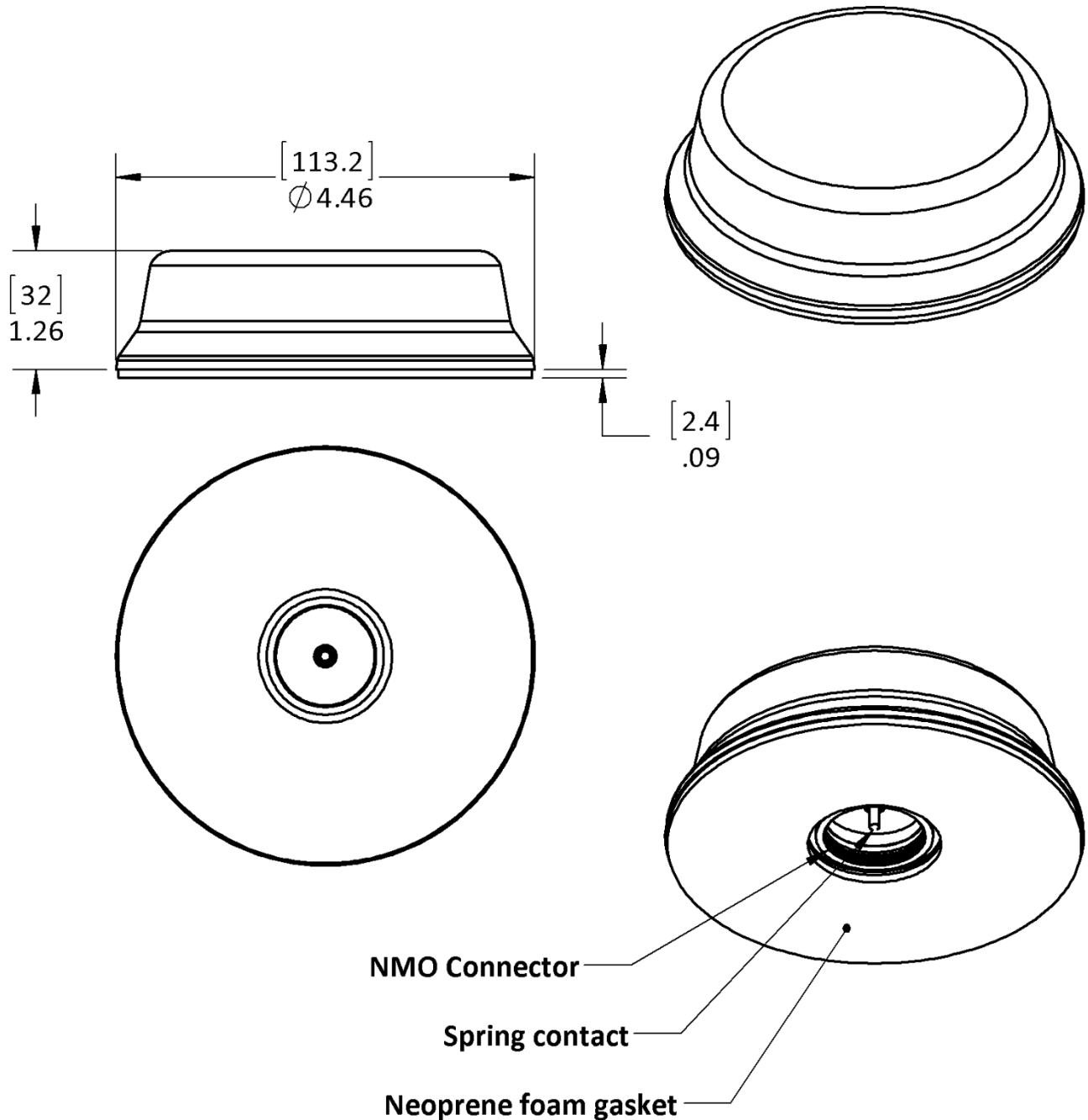
Used on NMO 3/4" HF or STD mounts (NMOKHFUD)	
Typical cable loss for 5.2m (17') RG-58 @ 850MHz	2.4 dB

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MECHANICAL DRAWING



All dimensions are in mm / inches

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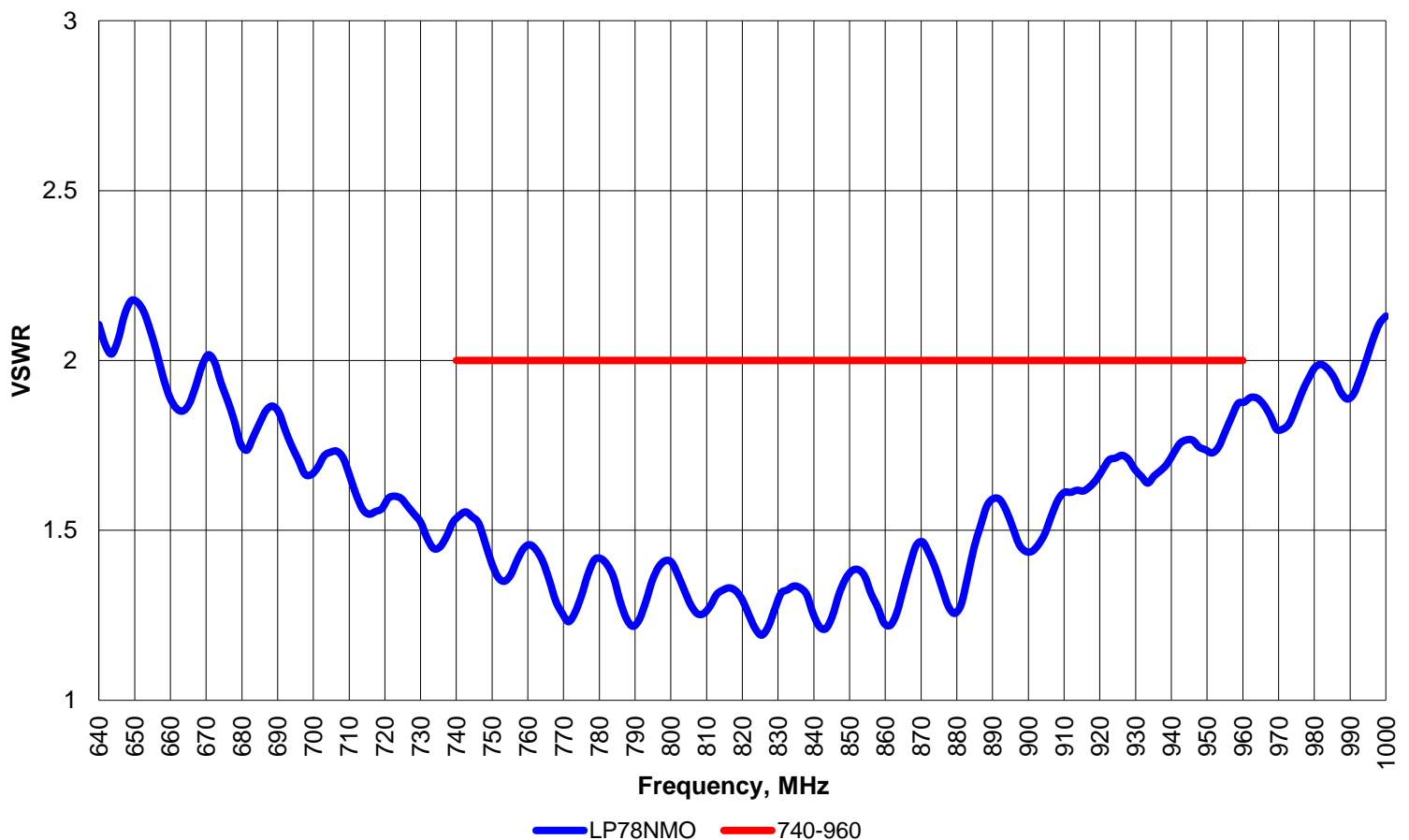
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## CHARTS

Measured with  
5.2m (17') cable

**VSWR vs Frequency**  
**LP78NMO Measured on Ø40" GP**  
Measured at Pulse, USA - July 19, 2017



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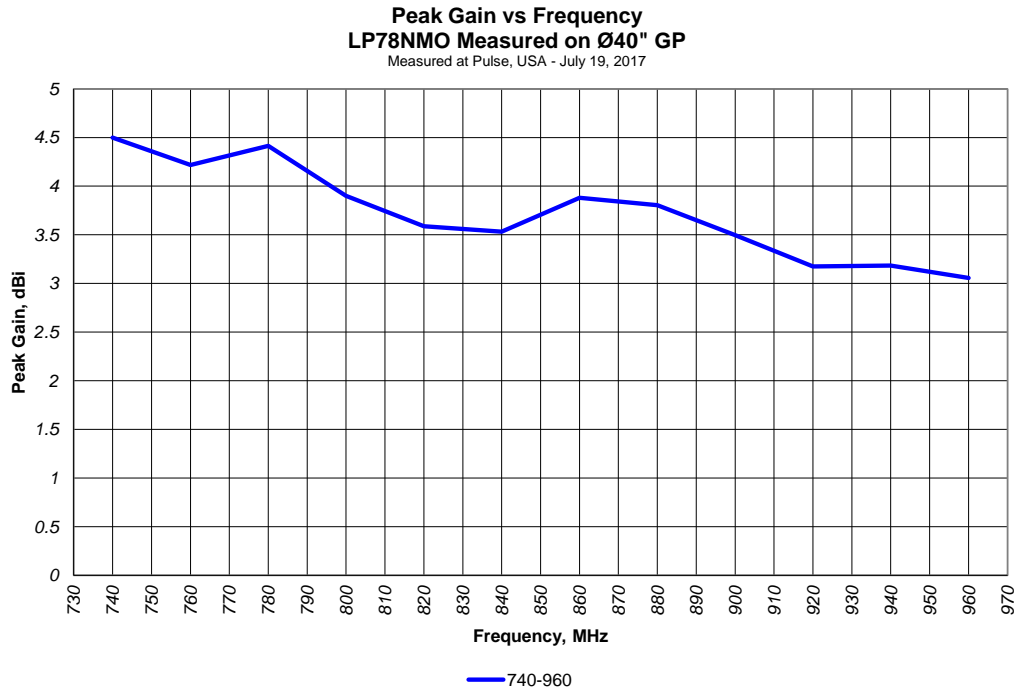
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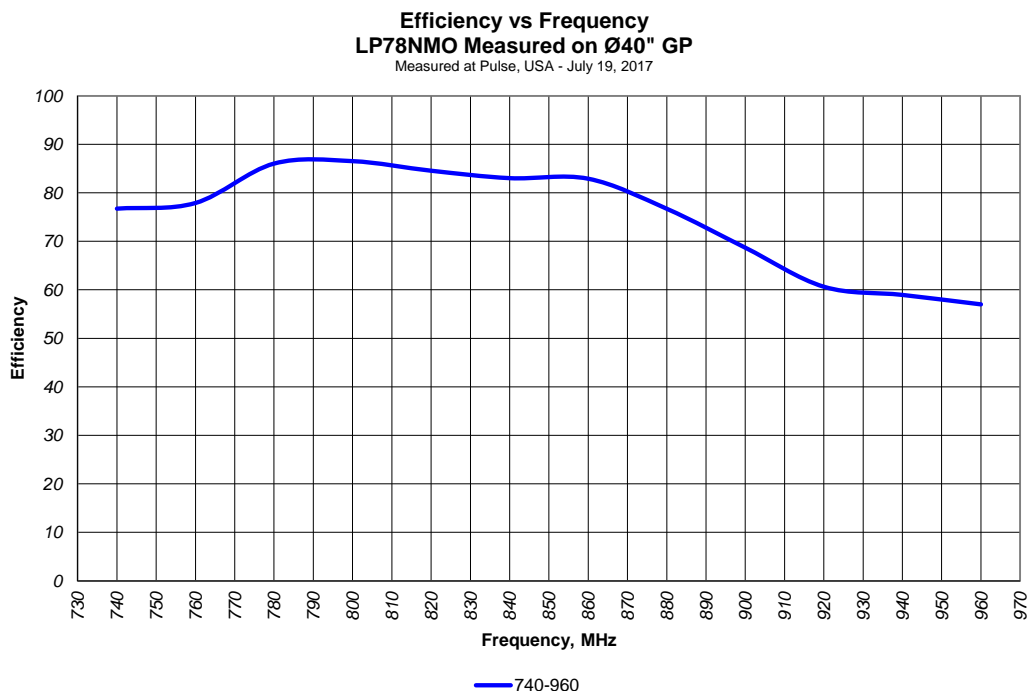
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## CHARTS

Measured  
with 102mm  
(4" cable)



Measured  
with 102mm  
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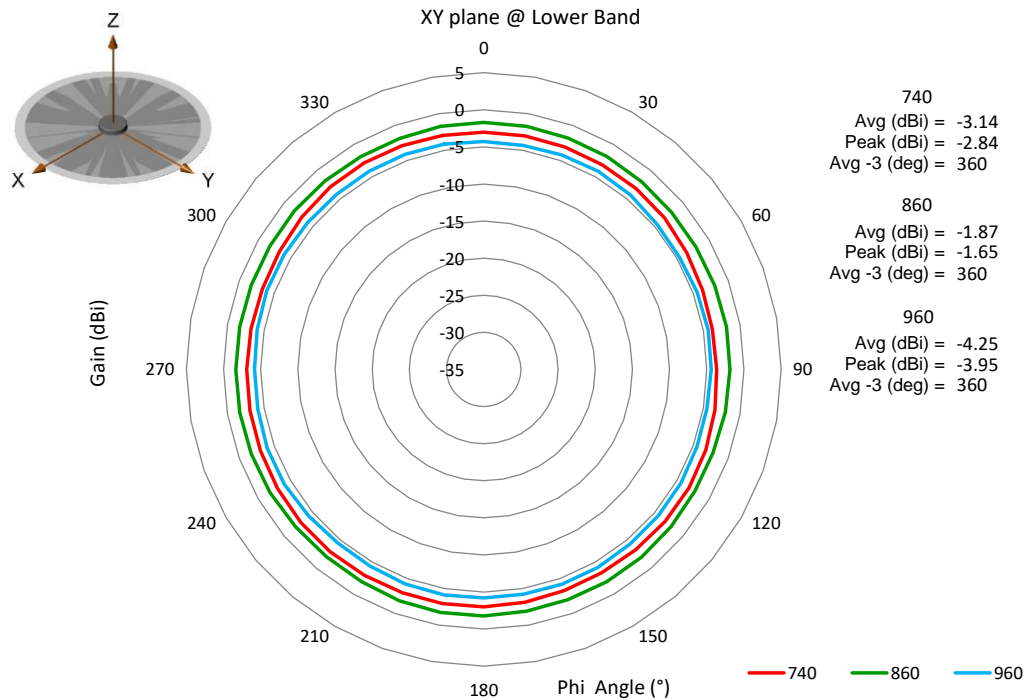
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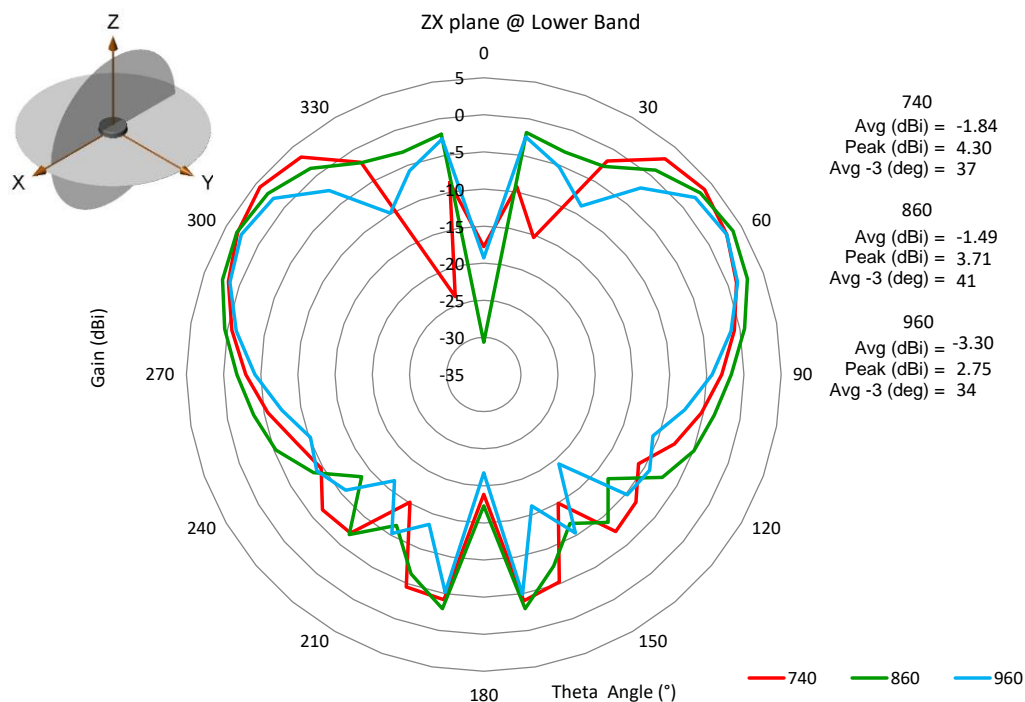
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## PACKAGING

1 antenna packed in a plastic bag

1 label on each plastic with part number, description, date code.

## ASSEMBLY

### ANTENNA MOUNTING



1. A self-adhering foam gasket protects the vehicle mounting surface and excludes water from the antenna. Do not apply sealant in the threaded antenna base.
2. Carefully line up the threads of the antenna with the threads of the base and turn slowly. Once the threads are engaged, turn a minimum of two complete revolutions.
3. Stop when the antenna feels snug or it can no longer be tightened by hand.

# Mouser Electronics

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Pulse:

LP78NMO