



**Series: Tri Band Whip** 

**Patent Pending** 

Description: NMO, Tri Band 150-174/430-520/750-870MHz

PART NUMBER: NMO150/450/758

## Features:

- Omnidirectional antenna
- Tri Band Monopole:
- VHF:150-174 MHz
- UHF: 430-520 MHz
- 7/800: 750-870 MHz
- Flexible Spring, Impact Resistant
- Connector NMO (Pogo contact)
- IP67
- RoHS Compliant

# **Applications:**

- Motorola APX-8500
- Harris Unity mobile

"Recommended pairing:

NMOKHFUDQMAI NMO cable with QMA Installed NMOKHFUDQMA NMO cable with Crimp QMA NMOMMRDSQMA NMO Mag mount assy w/ QMA."

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San Diego, CA 92128 USA

Pulse/Larsen Antennas 18110 SE 34th St Bldg 2 Suite 250 Vancouver, WA 98683 LISA Tel: 1-360-944-7551

Europe Headquarters Pulse GmbH & Do, KG Zeppelinstrasse 15 Herrenberg, Germany Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc. 99 Huo Ju Road(#29 Bldg,4th Phase Suzhou New District Jiangsu Province, Suzhou 215009 PR China Tel: 86 512 6807 9998





#### **TECHNICAL DATA SHEET**

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## **ELECTRICAL SPECIFICATIONS**

Antenna type Tri Band Monopole, Measured on

Ø52" (1.32m) Ground plane

Frequency 150-174/430-520/750-870 MHz

Nominal Impedance 50  $\Omega$ 

VSWR VHF: 150-165 MHz <2:1

VHF: 165-174 MHz <2.5:1 UHF: 430-490 MHz <2:1 UHF: 490-520 MHz <2.5:1

7/800: 750-870 MHz <2:1

Gain 0/5/4 dBi

Efficiency 60/70/70 %

Radiation Pattern Omni
Polarization Vertical

Power withstanding 100 W

Connector type NMO (Pogo contact)

# **MECHANICAL SPECIFICATIONS**

Color/Material Black / S.S Whip

Weight 205 g

Overall Length 452.5 mm

# **ENVIRONMENTAL SPECIFICATIONS**

Operating temperature -40 ~ +85° C

RoHS Compliant Yes





Description: NMO, Tri Band 150-174/430-

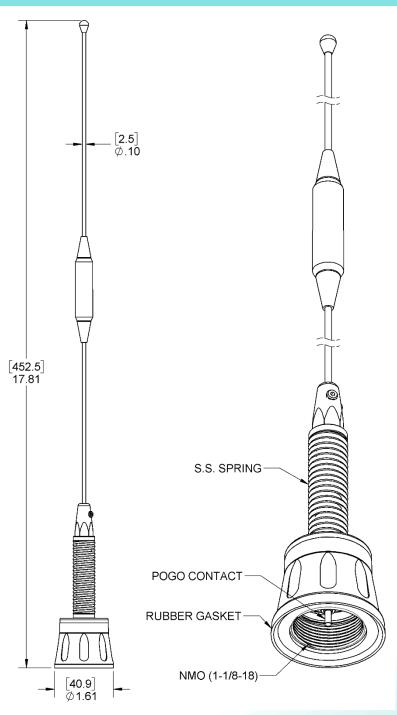
520/750-870MHz

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# **MECHANICAL DRAWING**



All dimensions are in mm / inches

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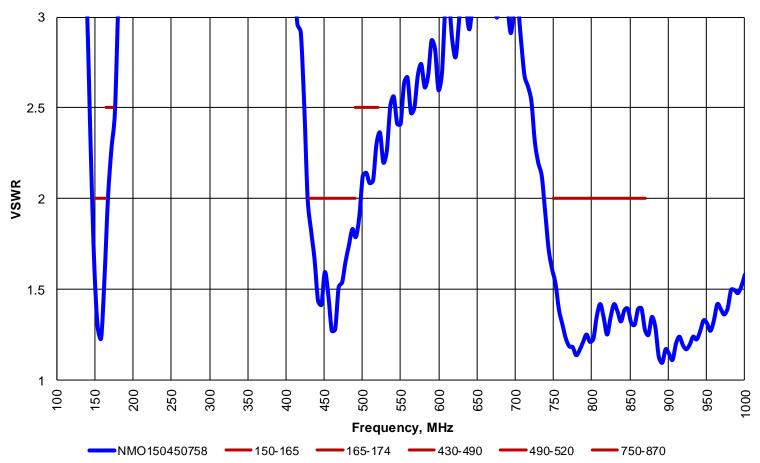
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# **CHARTS**

### VSWR vs Frequency NMO150450758 Measured with 17ft cable on Ø52" GP

Measured at Pulse, USA - June 11, 2018











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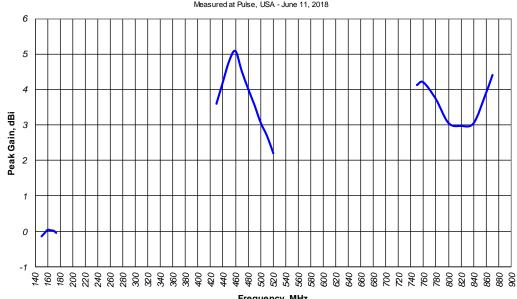
# **Patent Pending**

Measured with 6" (152mm) cable

# **CHARTS**

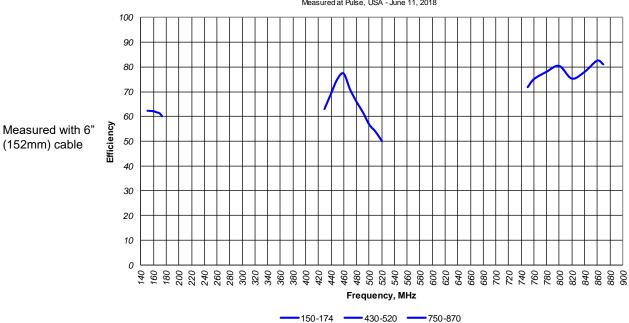
#### Peak Gain vs Frequency NMO150450758

Measured at Pulse, USA - June 11, 2018



Frequency, MHz **—**150-174 **—**430-520 **—**750-870

#### Efficiency vs Frequency NMO150450758



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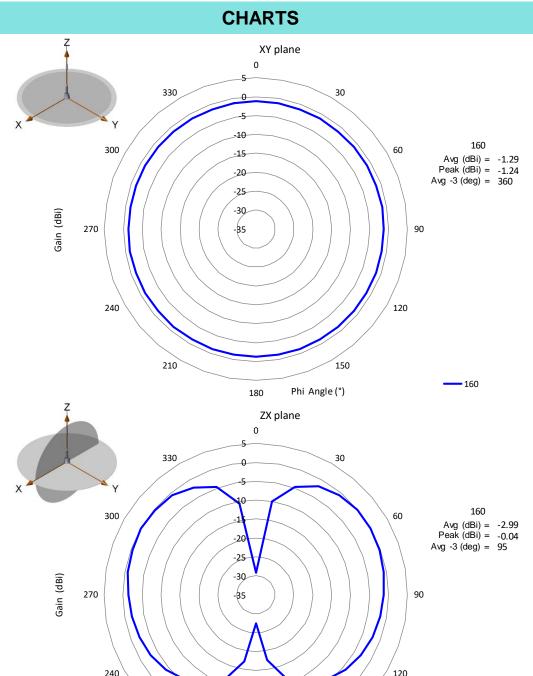




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160MHz Measured with 6" (152mm) cable

160MHz

Measured with 6" (152mm) cable

> 240 120 210 150 **-**160 Theta Angle (°) 180

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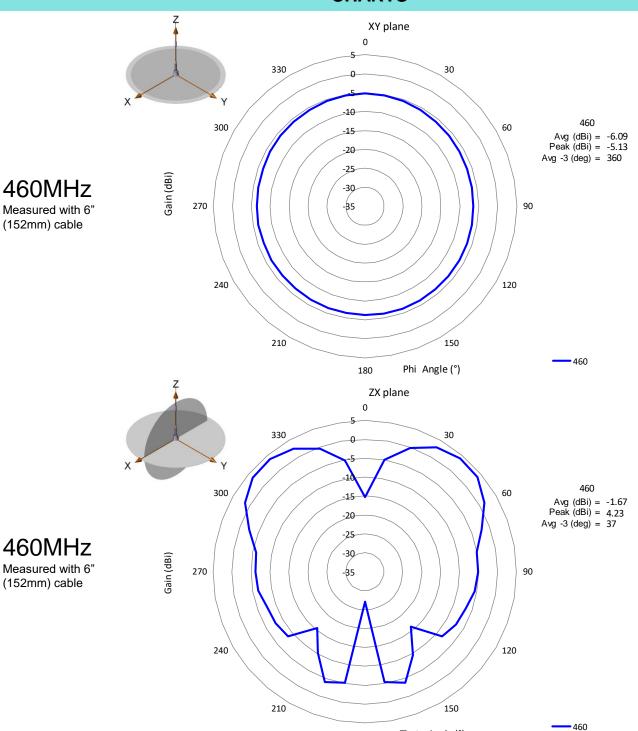
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ROHS

180

Theta Angle (°)





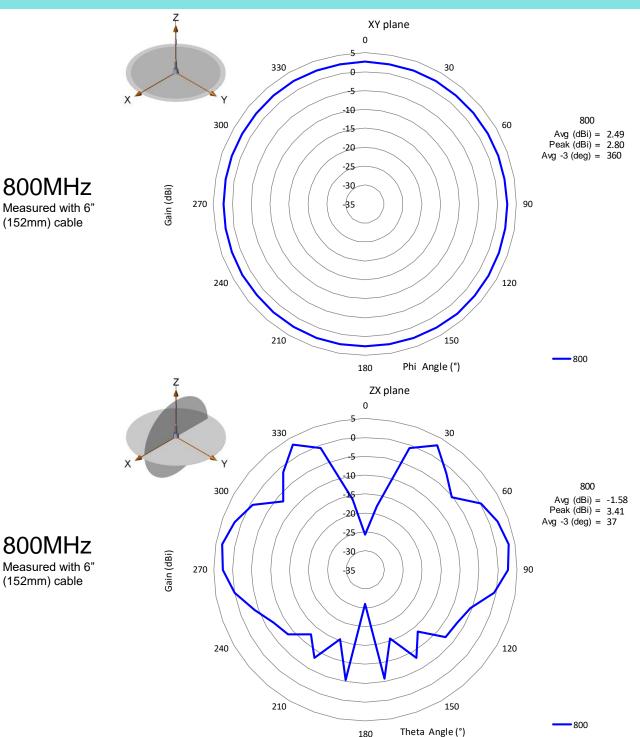
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180