



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

520/806-960MHz

PART NUMBER: NMO150/450/800SF

Features:

- Omnidirectional antenna
- Tri Band Monopole:
- VHF:150-174 MHz
- UHF: 430-520 MHz
- 800: 806-960 MHz
- Flexible Spring, Impact Resistant
- Connector NMO (Pogo contact)
- IP67
- RoHS Compliant

Applications:

- Motorola APX-8500
- · Harris Unity mobile



Issue: 2036

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

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden. For more information:

Pulse Worldwide Headquarters 15255 Innovation Drive #100 San Diego, CA 92128 USA Tel:1-858-674-8100 Pulse/Larsen Antennas 18110 SE 34th St Bldg 2 Suite 250 Vancouver, WA 98683 USA 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

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

520/806-960MHz

PART NUMBER: NMO150/450/800SF

ELECTRICAL SPECIFICATIONS

Antenna type* Tri Band Monopole

Frequency 150-174/430-520/806-960 MHz

Nominal Impedance 50 Ω

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

800: 806-960 MHz <2:1

Gain 0/5/5 dBi

Efficiency 60/70/80 %

Radiation Pattern Omni
Polarization Vertical
Power withstanding 100 W

Connector type NMO (Pogo contact)

MECHANICAL SPECIFICATIONS

Color/Material Black / S.S Whip

Weight 183 g

Overall Length 448.8 mm (17.67")

ENVIRONMENTAL SPECIFICATIONS

Operating temperature -40 ~ +85° C

RoHS Compliant Yes

Issue: 2036

^{*}Measured on Ø52" (1.32m) Ground plane

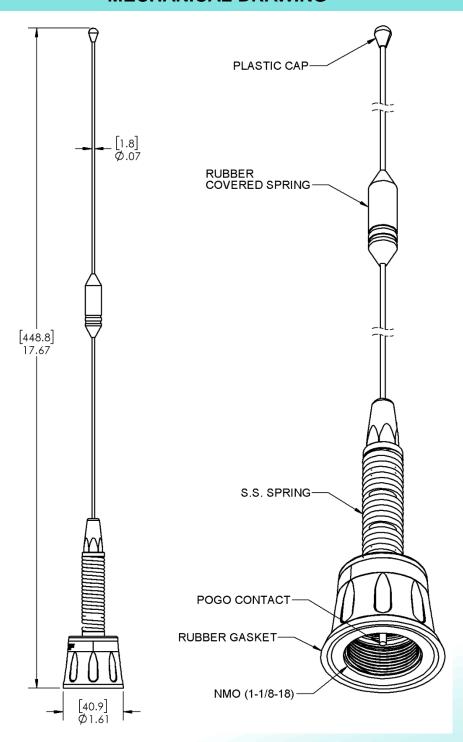




Description: NMO, Tri Band 150-174/430-520/806-960MHz

PART NUMBER: NMO150/450/800SF

MECHANICAL DRAWING



All dimensions are in mm

Issue: 2036





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

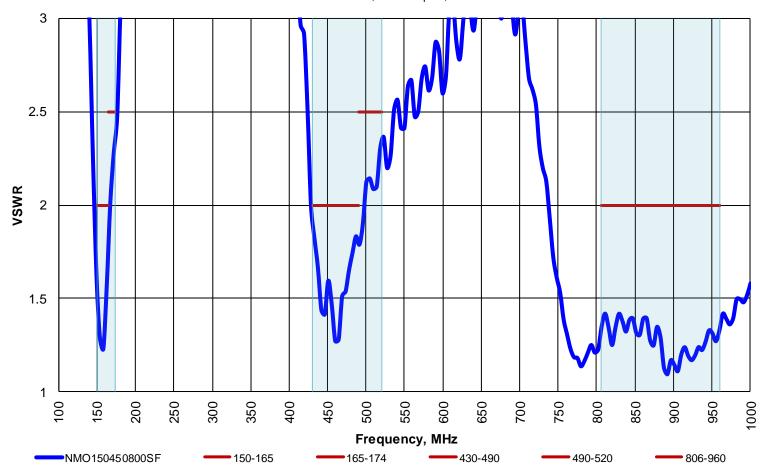
520/806-960MHz

PART NUMBER: NMO150/450/800SF

CHARTS

VSWR vs Frequency NMO150/450/800SF Measured with 17ft cable on Ø52" GP

Measured at Pulse, USA - Sep 04, 2020









Measured with 6" (152mm) cable

Description: NMO, Tri Band 150-174/430-520/806-960MHz

PART NUMBER: NMO150/450/800SF

CHARTS

Peak Gain vs Frequency NMO150/450/800SF

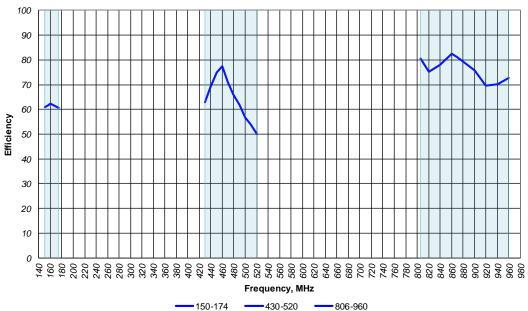
Measured at Pulse, USA - Sep 04, 2020



Efficiency vs Frequency NMO150/450/800SF

150-174

-430-520



Issue: 2036

Measured with 6"

(152mm) cable





Description: NMO, Tri Band 150-174/430-520/806-960MHz

PART NUMBER: NMO150/450/800SF

CHARTS XY plane 0 330 160 300 Avg (dBi) = -1.29Peak (dBi) = -1.24 -20 Avg -3 (deg) = 360160MHz 270 90 -85 Measured with 6" (152mm) cable 120 240 210 **-**160 Phi Angle (°) 180 ZX plane 0 330 30 160 300 Avg (dBi) = -2.99Peak (dBi) = -0.04Avg -3 (deg) = 95160MHz Gain (dBi) Measured with 6" 270 90 -85 (152mm) cable 240 120 210 150 **-**160 Theta Angle (°)

Issue: 2036

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

180





Description: NMO, Tri Band 150-174/430-520/806-960MHz

PART NUMBER: NMO150/450/800SF

CHARTS XY plane 0 330 460 300 Avg (dBi) = -6.09Peak (dBi) = -5.13-20 Avg -3 (deg) = 360Gain (dBi) 460MHz 270 90 Measured with 6" -85 (152mm) cable 120 240 150 210 460 Phi Angle (°) 180 ZX plane 0 330 30 460 300 Avg (dBi) = -1.67Peak (dBi) = 4.23-20 Avg -3 (deg) = 37460MHz Measured with 6" 270 90 (152mm) cable 240 120 210 150 460 Theta Angle (°)

Issue: 2036

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



180





Description: NMO, Tri Band 150-174/430-520/806-960MHz

120

840

150

Theta Angle (°)

PART NUMBER: NMO150/450/800SF

CHARTS XY plane 330 840 300 Avg (dBi) = -0.44Peak (dBi) = -0.15-20 Avg - 3 (deg) = 360840MHz 270 90 Measured with 6" -85 (152mm) cable 120 240 210 840 Phi Angle (°) 180 ZX plane 0 330 30 840 Avg (dBi) = -1.82Peak (dBi) = 3.63 Avg -3 (deg) = 36 840MHz Measured with 6" 270 90 (152mm) cable

Issue: 2036

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

240

210

ROHS

180



TECHNICAL DATA SHEET

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

520/806-960MHz

PART NUMBER: NMO150/450/800SF

Series: Tri Band Whip

PACKAGING

Pack each Antenna and instruction in PE bag.