

Series: VHF WHIP

**Description:** 217-220 MHz, 5 dBi, 5/8  
Wavelength Whip with Spring on NMO mount

**PART NUMBER:** NMO220CS



### Features:

- 217-220 MHz
- Omnidirectional Antenna
- Polarization: Vertical
- Mount: NMO
- Length: 780 mm. / 30.75 in.
- VSWR: <1.5:1
- Gain: 5 dBi

### Applications:

- Vehicular Mount
- Industrial
- Utility
- Municipal / Transportation
- RoHS Compliant

Issue: 1850

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 34<sup>th</sup> 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,4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



Series: VHF WHIP

Description: 217-220 MHz, 5 dBi, 5/8  
Wavelength Whip with Spring on NMO mount

PART NUMBER: NMO220CS

### ELECTRICAL SPECIFICATIONS

Antenna Type	5/8 $\lambda$ Monopole Whip
Frequency	217-220 MHz
Nominal Impedance	50 $\Omega$
VSWR	<1.5:1
Radiation Pattern	Omn
Gain	5 dBi
Efficiency	85%
Polarization	Vertical
Power Withstanding	200 W

### MECHANICAL SPECIFICATIONS

Overall Length	780 mm. / 30.75 in.
Weight	140 g.
Antenna Color / Material	Chrome / Steel
Connector type	NMO

### ENVIRONMENTAL SPECIFICATIONS

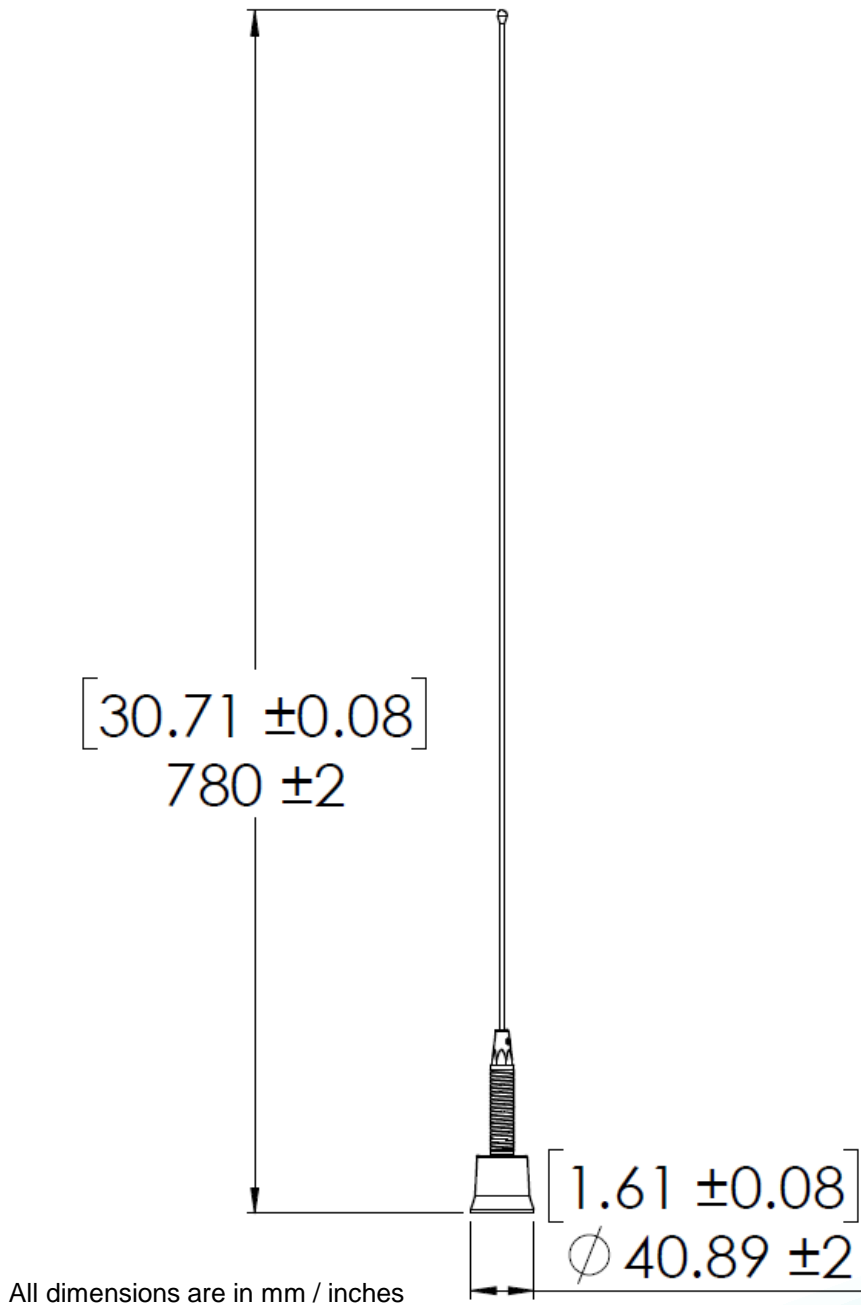
Operating Temperature	-40 to +80 °
RoHS Compliant	Yes

Series: VHF WHIP

Description: 217-220 MHz, 5 dBi, 5/8  
Wavelength Whip with Spring on NMO mount

PART NUMBER: NMO220CS

MECHANICAL DRAWING



Issue: 1850

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.

Series: VHF WHIP

TECHNICAL DATA SHEET

**Description:** 217-220 MHz, 5 dBi, 5/8  
Wavelength Whip with Spring on NMO mount

**PART NUMBER:** NMO220CS

TEST SETUP



Issue: 1850

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

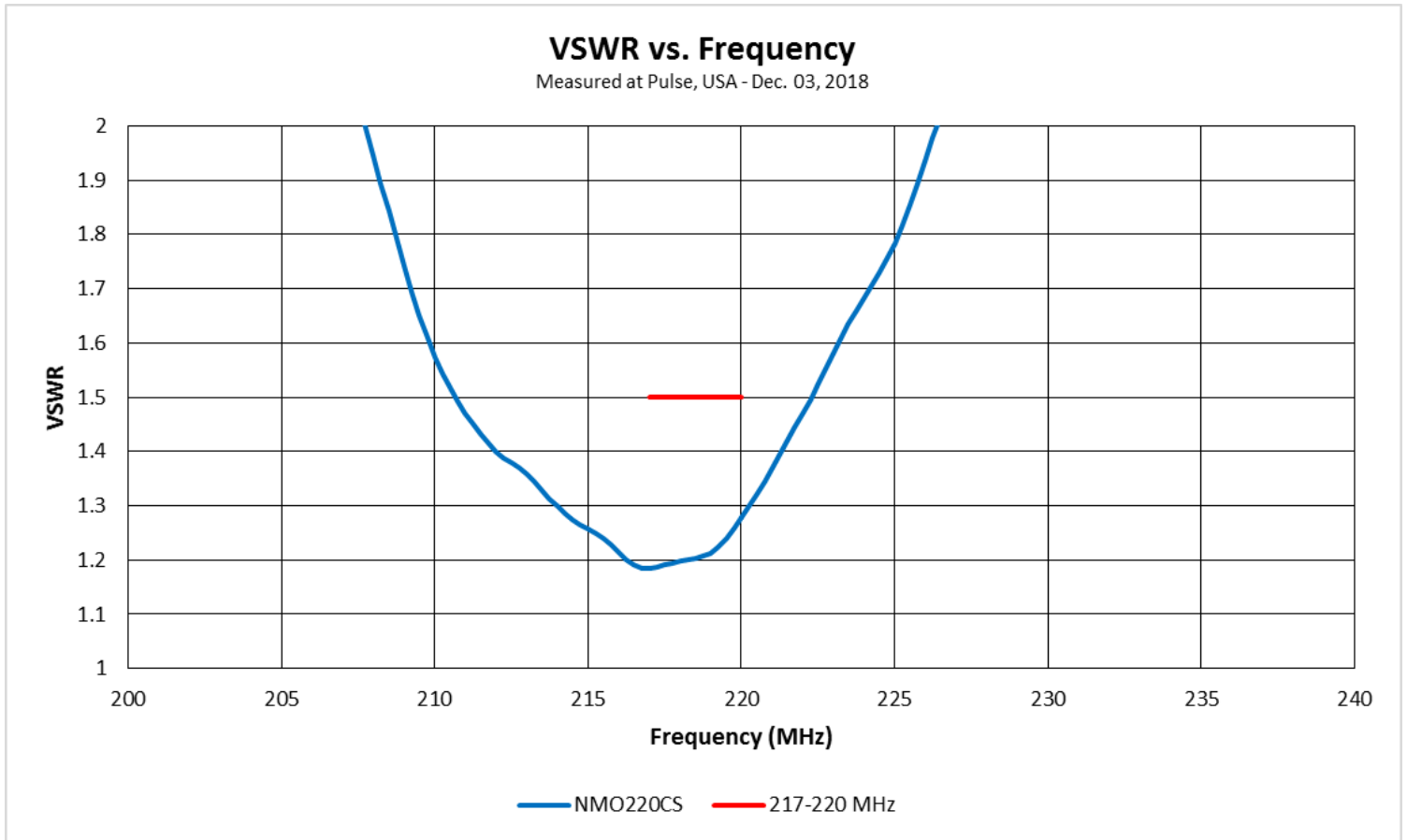
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything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

Series: VHF WHIP

Description: 217-220 MHz, 5 dBi, 5/8  
Wavelength Whip with Spring on NMO mount

PART NUMBER: NMO220CS

CHARTS



Issue: 1850

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

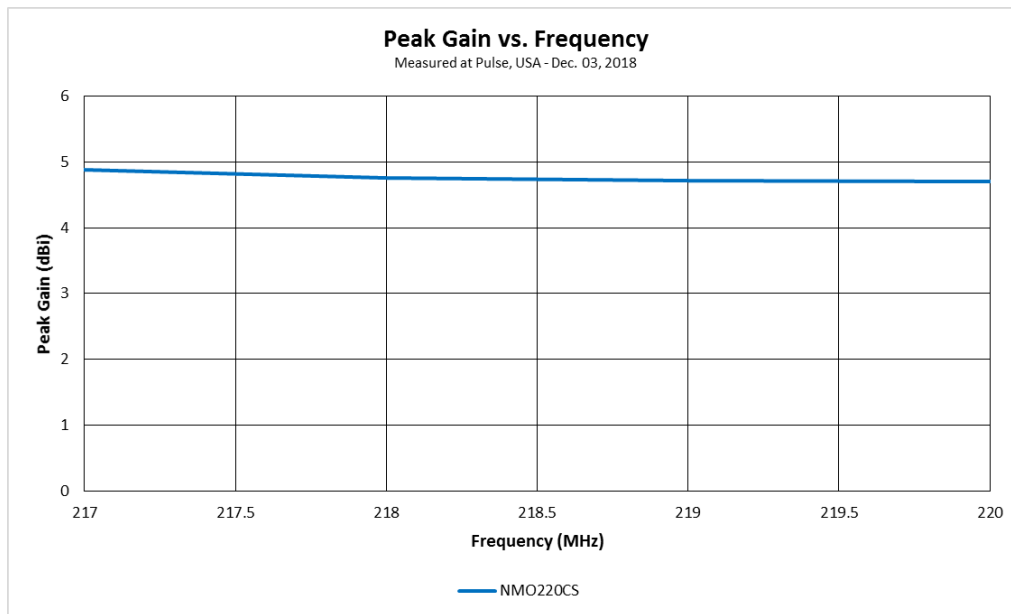
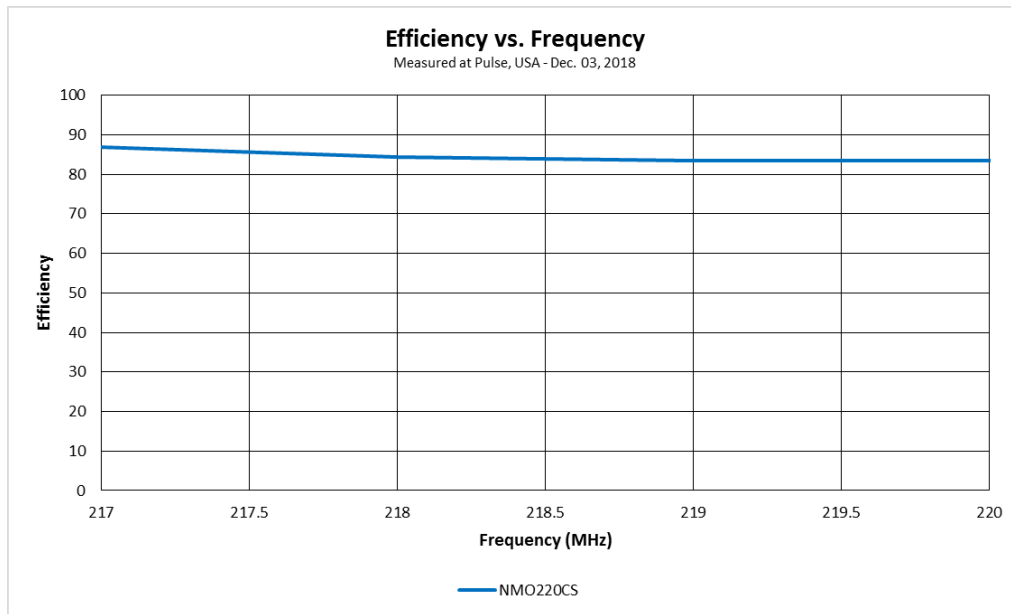
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything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

**Description:** 217-220 MHz, 5 dBi, 5/8 Wavelength Whip with Spring on NMO mount

**Series:** VHF WHIP

**PART NUMBER:** NMO220CS

CHARTS



Issue: 1850

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

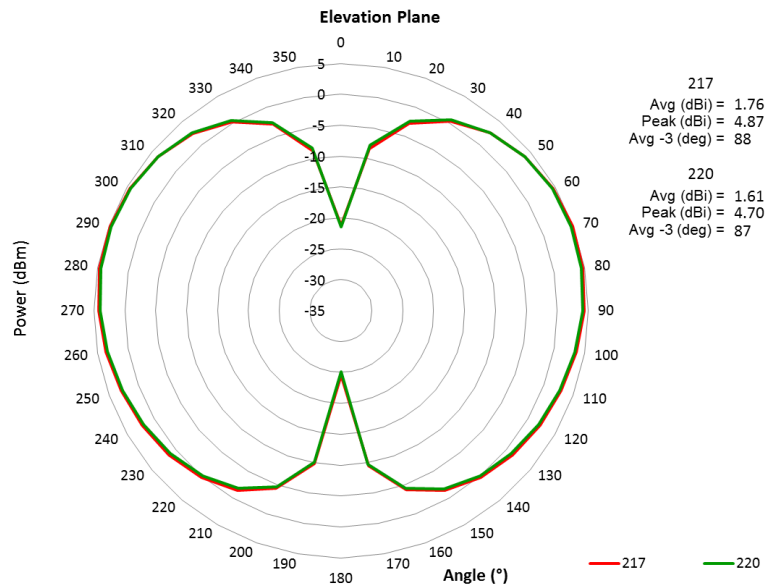
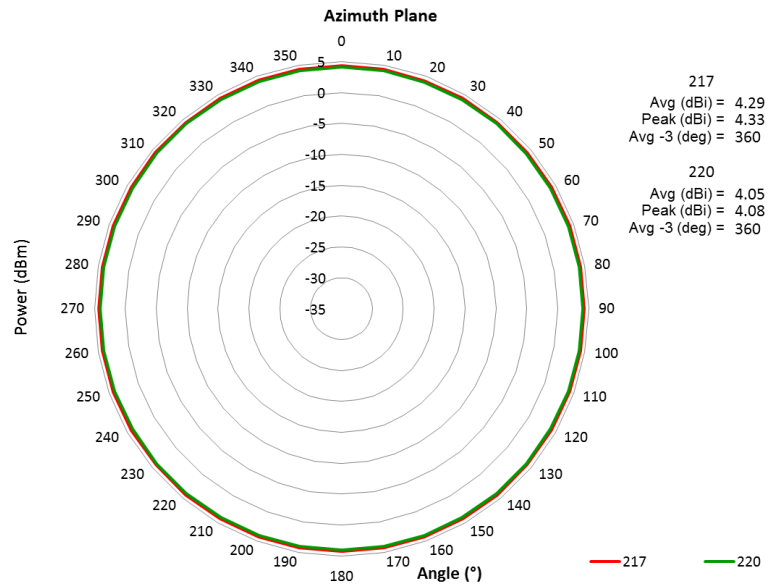
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything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

**Description:** 217-220 MHz, 5 dBi, 5/8 Wavelength Whip with Spring on NMO mount

**Series:** VHF WHIP

**PART NUMBER:** NMO220CS

CHARTS



Issue: 1850

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.

**Series:** VHF WHIP

**Description:** 217-220 MHz, 5 dBi, 5/8  
Wavelength Whip with Spring on NMO mount

**PART NUMBER:** NMO220CS

## PACKAGING

1 plastic bag containing:

- 1 Antenna
- 1 Wrench
- 1 O-ring
- 1 NMO Gasket

1 label on plastic bag with part number, date code.