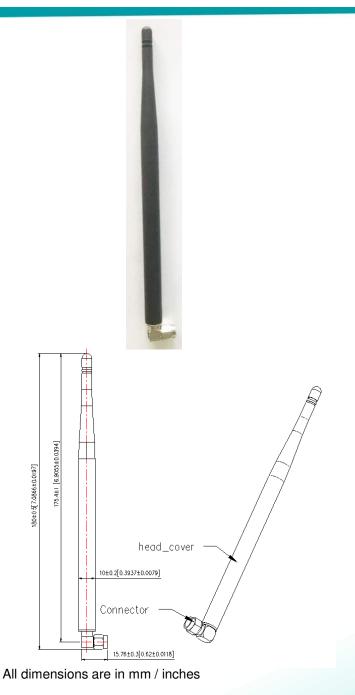


Description: 868-928MHz

# Series: Stick Antenna

PART NUMBER: W5021



# Features:

- <sup>1</sup>/<sub>4</sub> wave dipole antenna
- Length 180mm
- Gain 2.2 dBi
- Connector Right Angle RP SMA
- High Efficiency >70%
- Power rating 1W
- IP65 rated

# **Applications:**

- ISM 868 / 915 MHz radios
- IoT, M2M
- Industry automation
- Remote controls
- Toys, Consumer electronics

# lssue: 1637

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Pulse Worldwide Headquarters 12220 World Trade Drive San Diego, CA 92128 USA Tel:1-858-674-8100

Pulse/Larsen Antennas 3611 NE 112<sup>th</sup> Ave Vancouver, WA 98682 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





Description: 868-928MHz

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# **ELECTRICAL SPECIFICATIONS**

Frequency	868-928	MHz
Nominal Impedance	50	Ω
VSWR	2	Max
Average efficiency	70	%
Peak Gain	2.2	dBi +/- 1 dB
Polarization:	Vertical	
Power withstanding	1	W
Connector type	RP-SMA	

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Description: 868-928MHz

# Series: Stick Antenna

PART NUMBER: W5021

# MECHANICAL SPECIFICATIONSPlastic radomeTPEEColorBlackIngress ProtectionIP65Weight22.8 gOverall Length180mm/7.09Inches

# **ENVIRONMENTAL SPECIFICATIONS**

Operating temperature

-40/+85° C

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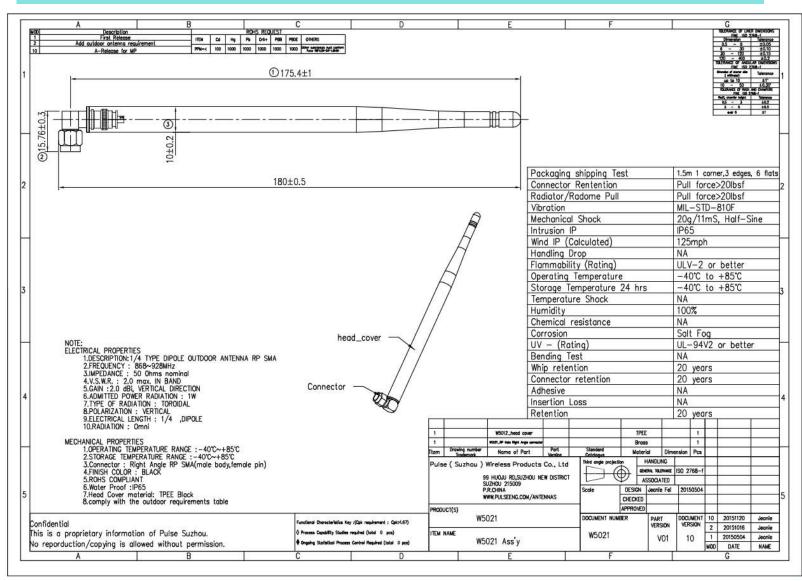


Description: 868-928MHz

# Series: Stick Antenna

PART NUMBER: W5021

## **MECHANICAL DRAWING**



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Description: 868-928MHz

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PART NUMBER: W5021

## CHARTS

# VSWR

VSWR vs Frequency measured in free space W5021 measured in PSU 8 7.5 7 6.5 6 5.5 5 4.5 4 8 1 8 1 3.5 3 2.5 2 1.5 1 off 100 800 ~100 1000 150 050 1050 150 00 Frequency,MHz W5021 --- Spec

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Description: 868-928MHz

**Series: Stick Antenna** 

PART NUMBER: W5021

# CHARTS

# Efficiency

Efficiency vs Frequency measured in free space W5021 measured in PSU 90 80 70 60 Efficiency,% 50 40 30 20 10 0 °10 860 8<sup>80</sup> 000 010 0320 200 030 040 Frequency,MHz -W5021

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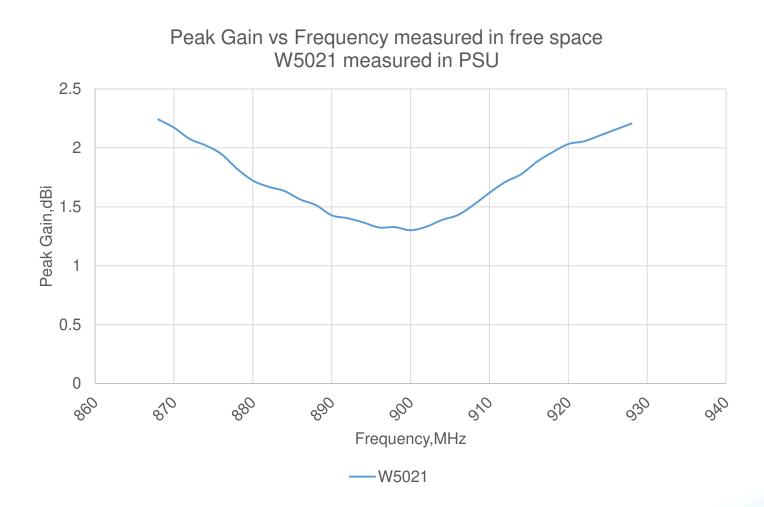
Description: 868-928MHz

Series: Stick Antenna

PART NUMBER: W5021

# CHARTS

# Peak Gain



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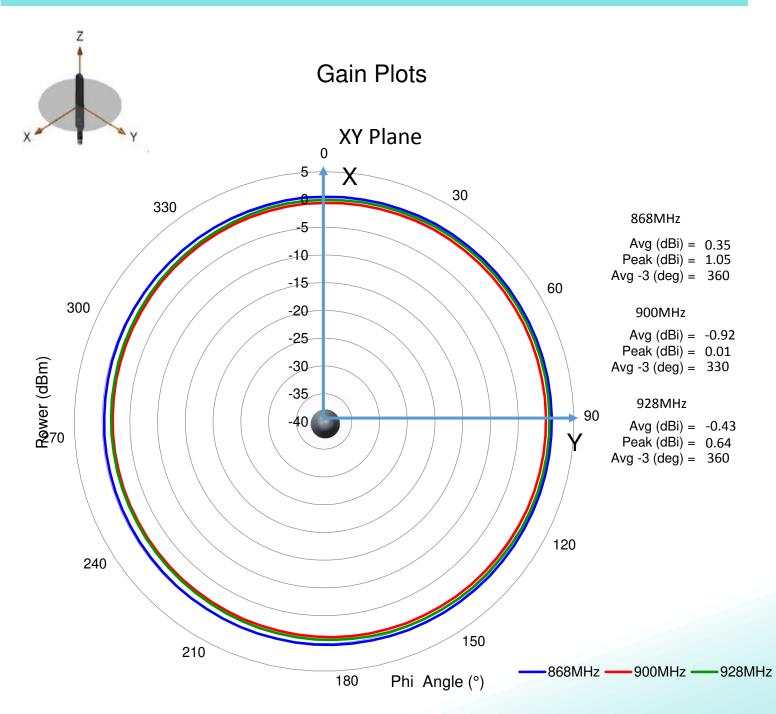


Description: 868-928MHz

# **Series: Stick Antenna**

PART NUMBER: W5021

CHARTS



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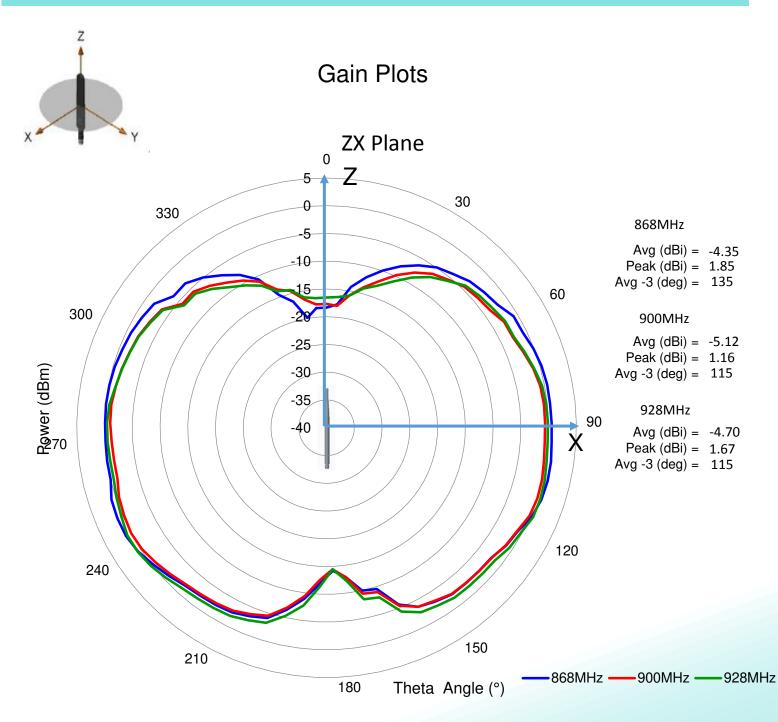


Description: 868-928MHz

# **Series: Stick Antenna**

PART NUMBER: W5021

CHARTS



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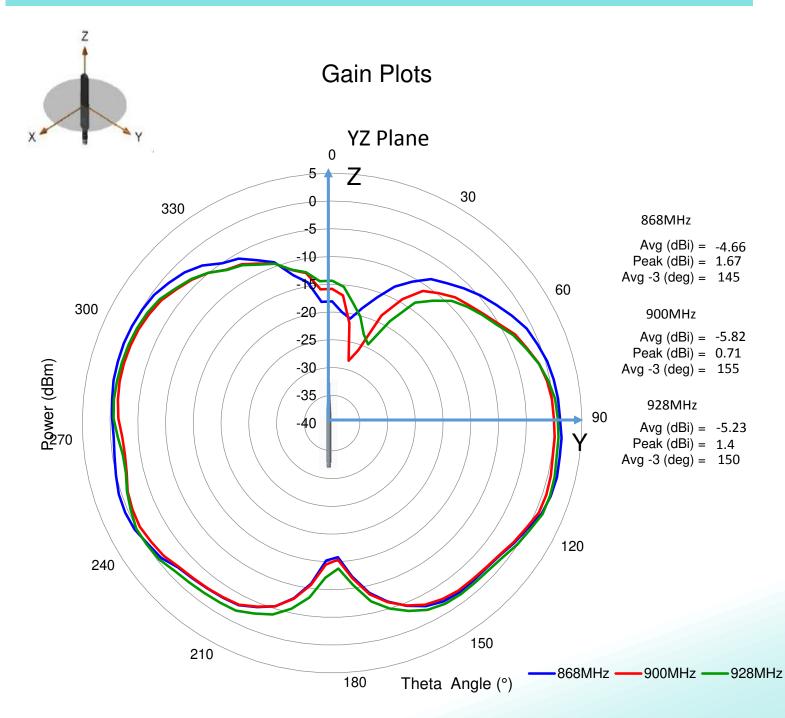


Description: 868-928MHz

# **Series: Stick Antenna**

PART NUMBER: W5021

## CHARTS



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Description: 868-928MHz

Series: Stick Antenna

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# PACKAGING

600PCS/Carton box

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