

TECHNICAL DATA SHEET

Description: 2.4-2.5GHz 1.3dBi IP67 RP-SMA

External Stick Antenna

PART NUMBER: W5039



Features:

- Frequency 2400-2500MHz
- · Quarter wave Dipole
- · Gain 1.3dBi
- Vertical Polarization
- · Omni radiation in Hor plane
- Length 93.79mm
- IP67
- Connector RP-SMA

Applications:

- WiFi, Bluetooth, BLE, ZigBee
- ISM 2.4GHz radios
- Indoor / Outdoor applications
- Video / data transmission
- Security, surveillance, monitoring
- IoT, M2M

Issue: 1637

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 12220 World Trade Drive 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



Frequency

VSWR

Nominal Impedance

TECHNICAL DATA SHEET

Description: 2.4-2.5GHz 1.3dBi IP67 RP-SMA

External Stick Antenna

Series: Stick Antenna PART NUMBER: W5039

2400-2500 MHz 50 Ω 2: 1

Average efficiency 77 %

Peak Gain 1.3 dBi +/- 1 dB

ELECTRICAL SPECIFICATIONS

Polarization: Vertical

Power withstanding 3 W

Connector type RP SMA



Description: 2.4-2.5GHz 1.3dBi IP67 RP-SMA

External Stick Antenna

Series: Stick Antenna PART NUMBER: W5039

MECHANICAL SPECIFICATIONS

Plastic radome TPE DSM CM600

Color Black

Ingress Protection IP67

Weight 11 g

Overall Length [3.7]93.79 [INCHES]MM

Flammability Rating UL94-V2

ENVIRONMENTAL SPECIFICATIONS

Operating temperature -40/+85 ° C

Drop test 1 meter to tile 10 times

Storage Temperature -40°C to +85°C 24 hours

Corrosion Salt Spray 2h+1 week, two cycle

Vibration duration 3x15 minutes 3 planes 45 minutes

Mechanical Shocks 20g / 11mS half-sine

Temperature shock -35°C to +65°C 15 deg.C/min, 3 cycles

Radome Retention >20 lbsf

UV Rating ISO 4892-3 2006

Wind-loading 125 Mph

Product Lifespan Estimate 20 Years

ROHS

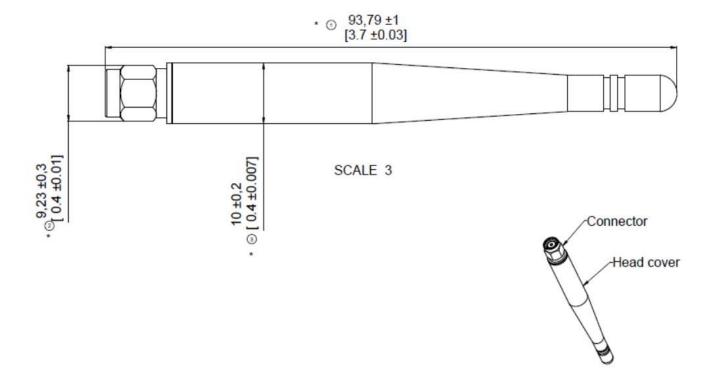


Description: 2.4-2.5GHz 1.3dBi IP67 RP-SMA

External Stick Antenna

Series: Stick Antenna PART NUMBER: W5039

MECHANICAL DRAWING





TECHNICAL DATA SHEET

Description: 2.4-2.5GHz 1.3dBi IP67 RP-SMA

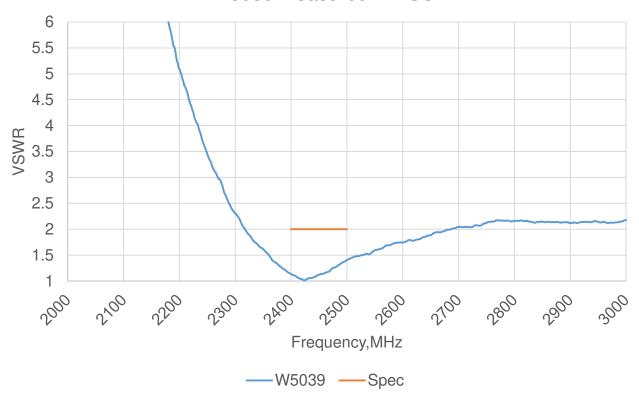
External Stick Antenna

PART NUMBER: W5039

CHARTS

VSWR

VSWR vs Frequency measured in free space W5039 measured in PSU









TECHNICAL DATA SHEET

Description: 2.4-2.5GHz 1.3dBi IP67 RP-SMA

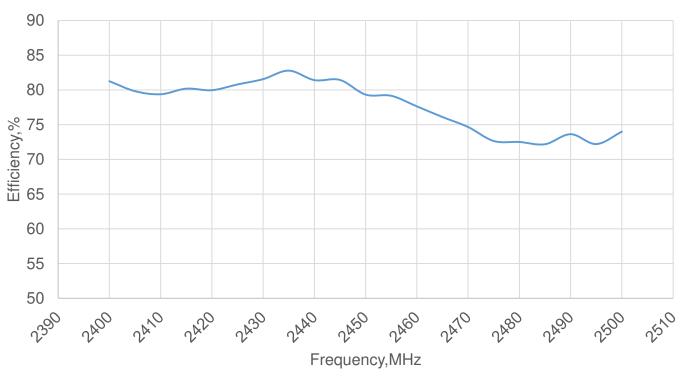
External Stick Antenna

PART NUMBER: W5039

CHARTS

Efficiency

Efficiency vs Frequency measured in free space W5039 measured in PSU



---W5039





TECHNICAL DATA SHEET

Description: 2.4-2.5GHz 1.3dBi IP67 RP-SMA

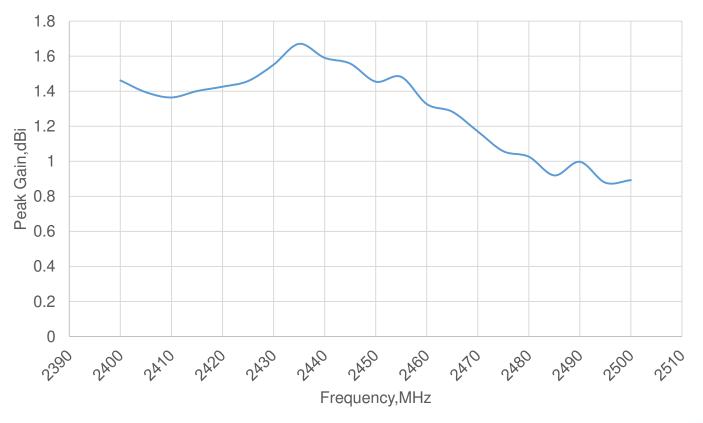
External Stick Antenna

PART NUMBER: W5039

CHARTS

Peak Gain

Peak Gain vs Frequency measured in free space W5039 measured in PSU



----W5039





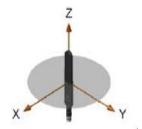


Description: 2.4-2.5GHz 1.3dBi IP67 RP-SMA

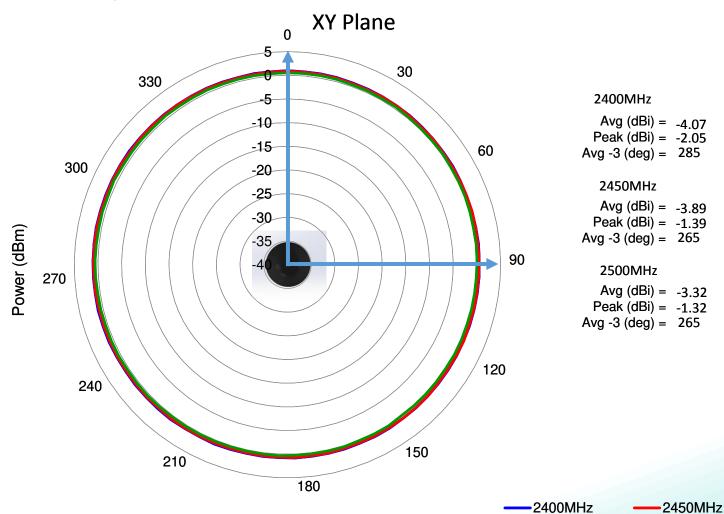
External Stick Antenna

Series: Stick Antenna PART NUMBER: W5039

CHARTS



Gain Plots



Issue: 1637



2500MHz

Phi Angle (°)

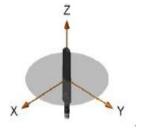


Description: 2.4-2.5GHz 1.3dBi IP67 RP-SMA

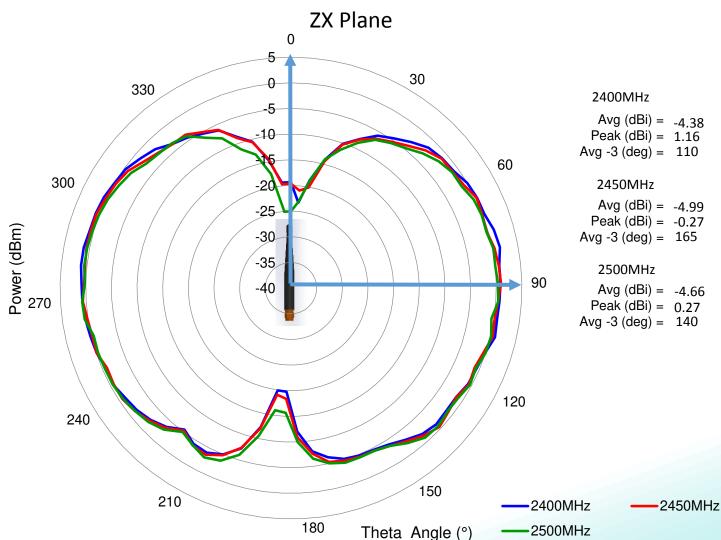
External Stick Antenna

Series: Stick Antenna PART NUMBER: W5039

CHARTS



Gain Plots



Issue: 1637





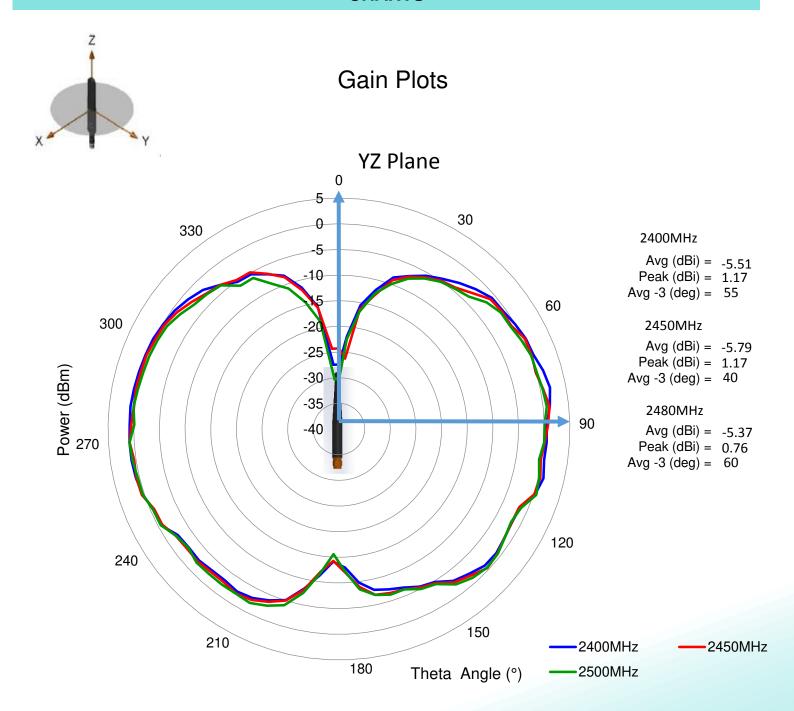
TECHNICAL DATA SHEET

Description: 2.4-2.5GHz 1.3dBi IP67 RP-SMA

External Stick Antenna

PART NUMBER: W5039

CHARTS





TECHNICAL DATA SHEET

Description: 2.4-2.5GHz 1.3dBi IP67 RP-SMA

External Stick Antenna

PART NUMBER: W5039

PACKAGING

Bullet PE bag packing 35PCS/PE bag 20 bags (700PCS)/carton box



