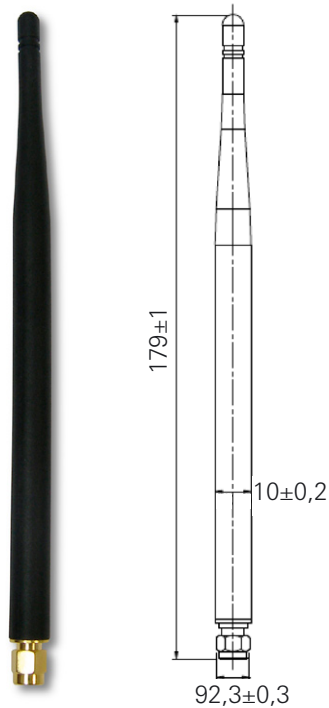


External Outdoor Antenna for 900MHz Application

Pulse Part Number: W5012



Features

- Antenna size: $\varnothing 10 \times 179 \text{ mm}$
- Ingress Protection IP65
- UV protection
- RoHS Compliant Product

Applications

- ISM 900MHz
- Metering, Security, M2M Applications

Part Numbers:

P/N	Connector
W5012	Straight RP-SMA (Male Body, Female Pin)

Electrical specifications @ +25 °C

Typical free space performance

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
868-928	2.0	60	-8.0	50	-40 to +85

Pulse North Asia
 3F, No. 198, Zhongyuan Rd
 Zhongli City (32068)
 Taoyuan Hsien
 Taiwan (R.O.C.)
 TEL: 886 3 4356768
 FAX: 886 3 4356823

Asian Headquarters
 B402, Shenzhen Academy
 of Aerospace Tech Bldg
 Tech-Innovation Internat'l
 10th Kejinan Rd
 High-Tech Zone
 Nanshan District, Shenzhen
 PR China
 TEL: 86 755 33966678
 FAX: 86 755 33966700

Pulse (Suzhou) Wireless Products Co, Ltd
 #99 Huo Ju Rd
 (# 29 Bldg, 4th phase)
 Suzhou New District
 Science & Technology Industrial Park
 Jiangsu Province
 Suzhou 215009, PR China
 TEL: 86 512 6807 9998
 FAX: 86 512 6809 8023

European Headquarters & Automotive Headquarters
 Pulse GmbH & Co. KG
 Zeppelinstrasse 15
 Germany
 TEL: +49 7032 7806 0
 FAX: +49 7032 7806 12

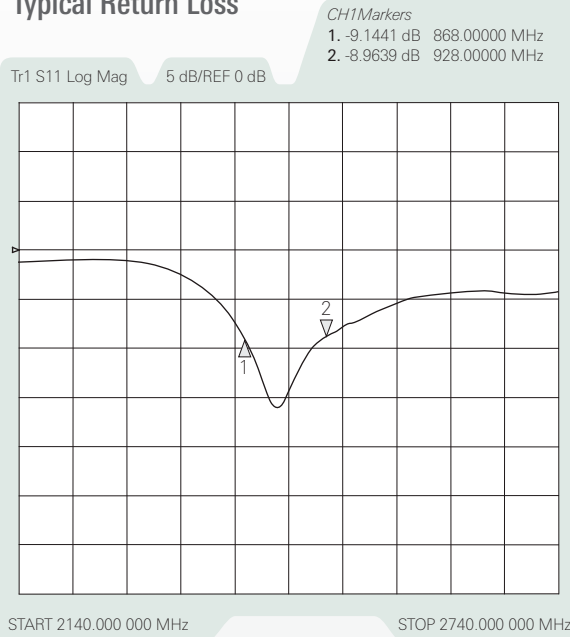
Worldwide Headquarters
 12220 World Trade Drive
 San Diego, CA 92128
 USA
 Map from San Diego Airport
 TEL: 858 674 8100
 FAX: 858 674 8262

Antennas Larsen Brand
 3611 NE 112th Ave
 Vancouver, WA 98682
 United States
 TEL: 800 ANTENNA (USA)
 800 268-3662
 FAX: 800 525 6749

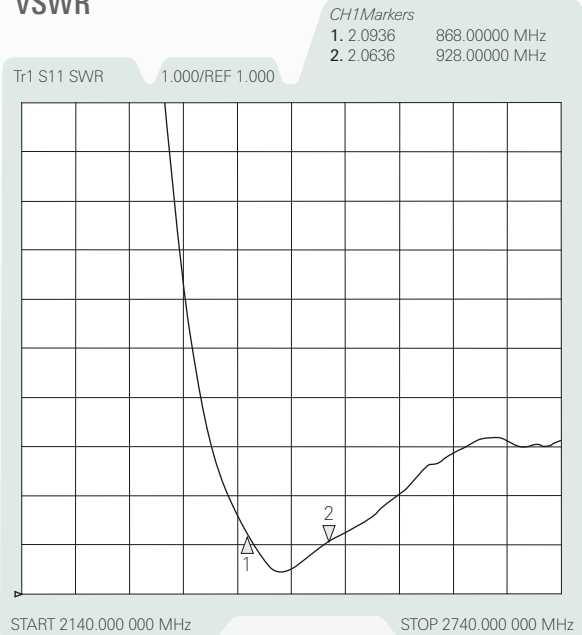
External Outdoor Antenna for 900MHz Application

Pulse Part Number: W5012

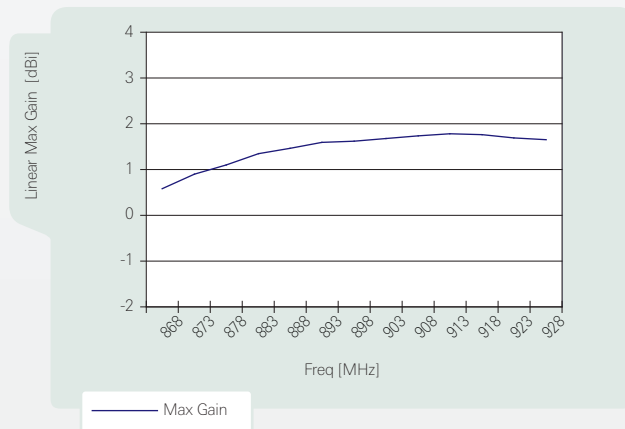
Typical Return Loss



VSWR



Max Gain



Pulse North Asia
 3F, No. 198, Zhongyuan Rd
 Zhongli City (32068)
 Taoyuan Hsien
 Taiwan (R.O.C.)
 TEL: 886 3 4356768
 FAX: 886 3 4356823

Asian Headquarters
 B402, Shenzhen Academy
 of Aerospace Tech Bldg
 Tech-Innovation Internat'l
 10th Kejinan Rd
 High-Tech Zone
 Nanshan District, Shenzhen
 PR China
 TEL: 86 755 33966678
 FAX: 86 755 33966700

**Pulse (Suzhou) Wireless
 Products Co, Ltd**
 #99 Huo Ju Rd
 (# 29 Bldg, 4th phase)
 Suzhou New District
 Science & Technology Industrial Park
 Jiangsu Province
 Suzhou 215009, PR China
 TEL: 86 512 6807 9998
 FAX: 86 512 6809 8023

**European Headquarters &
 Automotive Headquarters**
 Pulse GmbH & Co. KG
 Zeppelinstrasse 15
 Germany
 TEL: +49 7032 7806 0
 FAX: +49 7032 7806 12

Worldwide Headquarters
 12220 World Trade Drive
 San Diego, CA 92128
 USA
 Map from San Diego Airport
 TEL: 858 674 8100
 FAX: 858 674 8262

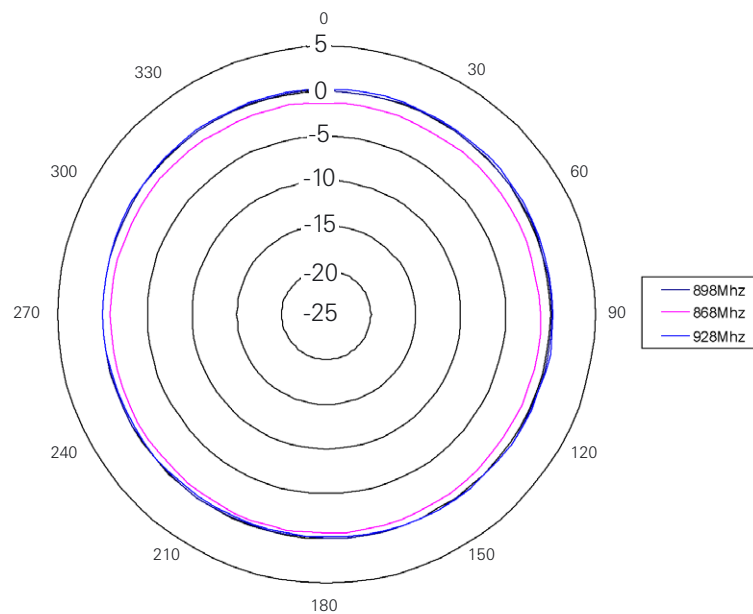
Antennas Larsen Brand
 3611 NE 112th Ave
 Vancouver, WA 98682
 United States
 TEL: 800 ANTENNA (USA)
 800 268-3662
 FAX: 800 525 6749

External Outdoor Antenna for 900MHz Application

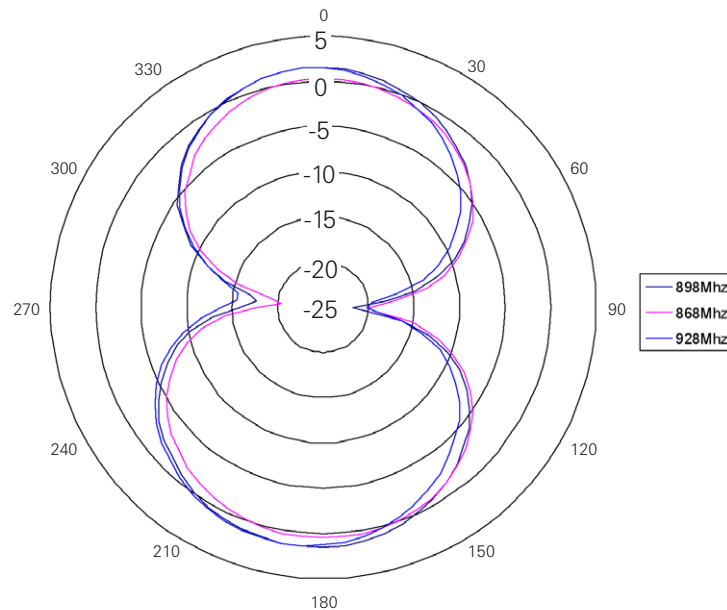
Pulse Part Number: W5012

Typical Free Space Radiation Patterns

Horizontal Plane



Vertical Plane



Pulse North Asia
 3F, No. 198, Zhongyuan Rd
 Zhongli City (32068)
 Taoyuan Hsien
 Taiwan (R.O.C.)
 TEL: 886 3 4356768
 FAX: 886 3 4356823

Asian Headquarters
 B402, Shenzhen Academy
 of Aerospace Tech Bldg
 Tech-Innovation Internat'l
 10th Kejinan Rd
 High-Tech Zone
 Nanshan District, Shenzhen
 PR China
 TEL: 86 755 33966678
 FAX: 86 755 33966700

**Pulse (Suzhou) Wireless
 Products Co, Ltd**
 #99 Huo Ju Rd
 (# 29 Bldg, 4th phase)
 Suzhou New District
 Science & Technology Industrial Park
 Jiangsu Province
 Suzhou 215009, PR China
 TEL: 86 512 6807 9998
 FAX: 86 512 6809 8023

**European Headquarters &
 Automotive Headquarters**
 Pulse GmbH & Co. KG
 Zeppelinstrasse 15
 Germany
 TEL: +49 7032 7806 0
 FAX: +49 7032 7806 12

Worldwide Headquarters
 12220 World Trade Drive
 San Diego, CA 92128
 USA
 Map from San Diego Airport
 TEL: 858 674 8100
 FAX: 858 674 8262

Antennas Larsen Brand
 3611 NE 112th Ave
 Vancouver, WA 98682
 United States
 TEL: 800 ANTENNA (USA)
 800 268-3662
 FAX: 800 525 6749