

Active GPS Antenna

Pulse Part Number W4000 Family



The W4000 family of active GPS ultra thin, oval shaped antennas offer versatility for installation, as they can be positioned on the dash or window without orientation concerns



Features

- 50 percent thinner than standard GPS antennas
- Versatile installation inside the vehicle - no specific installation location or orientation required.
- Glass or dashboard mount
- Offered with a variety of cable lengths and connector options
- RoHS Compliant Product

Applications

- Vehicle tracking
- Fleet management / asset tracking
- In-car infotainment
- "Pay-as-you-drive" insurance applications

P/N	Cable Length (feet / meters)	Connector
W4000D197	16.4 / 5	MMCX Male Straight
W4000G197	16.4 / 5	SMA Male Straight
W4000J197	16.4 / 5	MCX Male Straight
W4000L197	16.4 / 5	FME Male Straight
W4000G059	5 / 1.5	SMA Male Straight

San Diego, CA 858 674 8100

Vancouver, WA 360 944 7551

Europe 49 7032 7806 0

Asia 86 755 33966678

North Asia 886 3 4356768

China 86 512 6807 9998

Active GPS Antenna

Pulse Part Number W4000 Family

Electrical Specifications

Frequency [MHz]	1575.42
Nominal Impedance [Ω]	50
VSWR Max	1.5:1
Gain [dBi Max]	1.5
Radiation Pattern	Omni-directional
Cable Type	RG-174

LNA Specifications

Gain [dB \pm 2]	26
Noise Figure [dBi]	1 Max
Current Draw [mA]	12 typical
Voltage [Dc]	3 - 5 (\pm 10%)

Mechanical Specifications

Radome Material	PC-ABS Plastic Blend
Color	Black
Height [Inches/Meters]	.2 / 5.45
Width [Inches/Meters]	1.18 x 2 / 30 x 50
Mounting	Die cut double-sided tape included

Environmental Specifications

Operating Temperature [$^{\circ}$ C]	-40 to +85
Storage Temperature [$^{\circ}$ C]	-40 to +85
Relative Humidity [%]	20 to 95

San Diego, CA 858 674 8100

Vancouver, WA 360 944 7551

Europe 49 7032 7806 0

Asia 86 755 33966678

North Asia 886 3 4356768

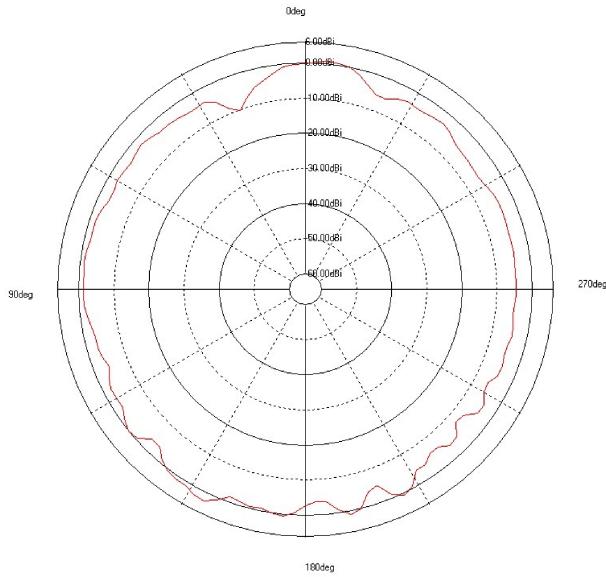
China 86 512 6807 9998

Active GPS Antenna

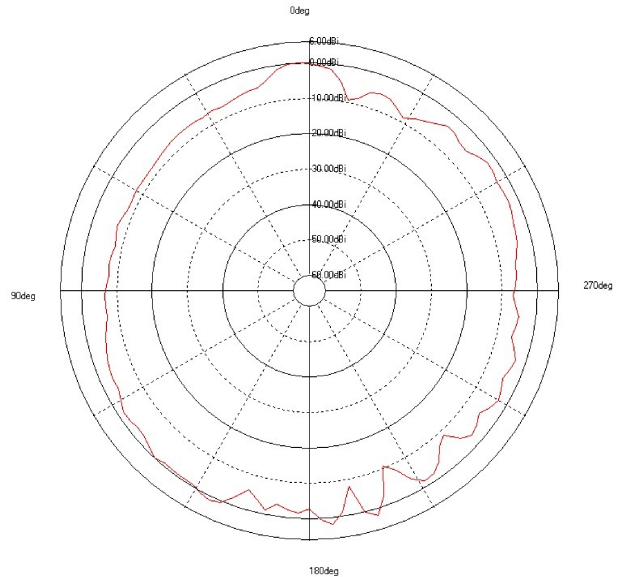
Pulse Part Number W4000 Family

Radiation Patterns

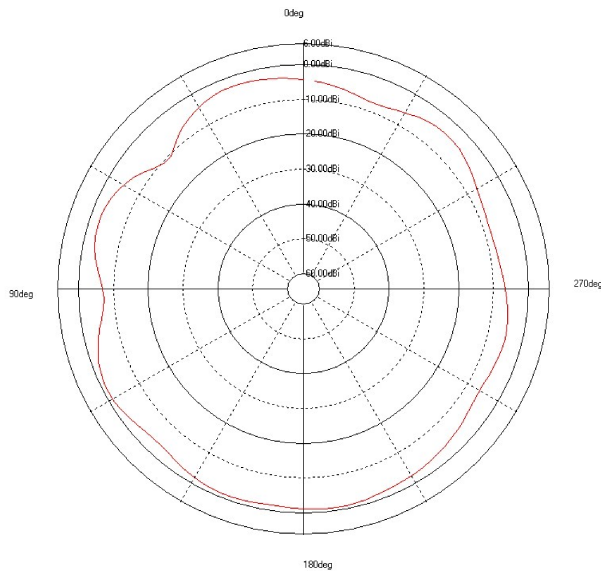
XZ Plane



ZY Plane



XY Plane



For More Information

Pulse Worldwide Headquarters

12220 World Trade Drive
San Diego, CA 92128
U.S.A.

Tel: 858 674 8100
Fax: 858 674 8262

Larsen Brand Antennas

3611 NE 112th Avenue
Vancouver, WA 98682
USA

Tel: 360 944 7551
Fax: 360 944 7556

Europe Headquarters

Pulse GmbH & Co. KG
Zeppelinstrasse 15
Herrenberg
Germany

Tel: 49 7032 7806 0
Fax: 49 7032 7806 135

Asia Headquarters

B402, Shenzhen Academy of
Aerospace Technology Bldg,
10th Kejian Road, High-Tech Zone
Nanshan District, Shenzhen, PR China 518057

Tel: 86 755 33966678
Fax: 86 755 33966700

Pulse North Asia

3F, No. 198, Zhongyuan Road
Zhongli City, Taoyuan County 320
Taiwan R. O. C.

Tel: 886 3 4356768
Fax: 886 3 4356823

Pulse (Suzhou) Wireless Products Co., Inc.

99 Huo Ju Road, (#29 Bldg, 4th Phase)
Suzhou New District
Science & Tech Industrial Park
Jiangsu Province, Suzhou 215009 PR China

Tel: 86 512 6807 9998
Fax: 86 512 6809 8023

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2010, Pulse Electronics, Inc. All rights reserved.