IP67 Active 6 Band GPS Antenna

Pulse Part Number W4120 Family





The W4120 family offers a multi-band, active GPS antenna combining compact size with the ability to support most international wireless services. The active GPS antenna provides exact location-based information which can be communicated using the 3G frequencies. The low profile housing is compatible with IP67 allowing for outdoor use.

Features

- Active GPS & 3G functionality
- IP 67 rated Product
- Adhesive Mounting
- Other cable and connector variations available
- RoHS Compliant Product

Applications

- Navigation and location
- Fleet management
- Intelligent vehicle safety
- Asset tracking
- Pay-as-you-drive insurance

P/N	Cable Length	Connector
W4120GG3000	9.8' (3 m)	3G - SMA Male GPS - SMA Male
W4120EG5000	16.4' (5 m)	3G - SMA Male GPS - MMCX
W4120ER5000	16.4' (5 m)	3G - MCX GPS - MMCX
W4120GG5000	16.4' (5 m)	3G - SMA Male GPS - SMA Male
W4120GL5000	16.4' (5 m)	3G - FME GPS - SMA Male

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Electrical Specifications

Frequency 1 [MHz]		806-960
Frequency 2 [MHz]		1710-2170
Frequency 3 [MHz]		1574.4-1576.4
Nominal Impedance [Ω]		50
~	Freq 1	2.5:1
VSWR	Freq 2	2.5:1
>	Freq 3	2.0:1
Gain	Freq 1 [dBi avg]	0
	Freq 2 [dBi avg]	0
Ġ.	Freq 1	Linear Vertical
Polariza- tion	Freq 2	Linear Vertical
Po	Freq 3	RHCP
Cable	Type [Freq 1/2]	RG-174
Cal	Type [GPS]	RG-174

LNA Specifications

Gain at 3V [dBic / dB ± 2)]	5 / 26
Gain at 5V [dBic / dB ± 2]	5 / 25
Noise Figure	1.5 dB max
Current Draw [mA Max]	25
Voltage [V DC]	3 - 5

Environmental Specifications

Operating Temperature [°C]	-40 to +85
Storage Temperature [°C]	-40 to +85
Relative Humidity [%]	100

Mechanical Specifications

Radome Material	PC/PET, UV resistant
Color	Black
Ingress Protection	IP67
Weight [oz/g]	4.7 / 145
Dimensions [Inches/mm]	5.4 x 1.5 x .6 [136 x 37.7 x 13.8]
Mounting	Adhesive Tape

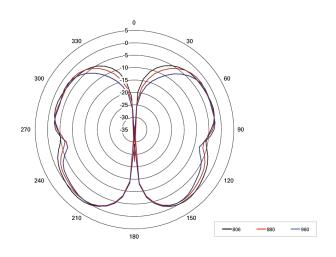


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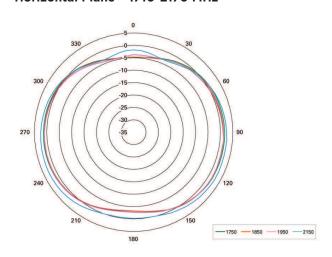
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Radiation Patterns

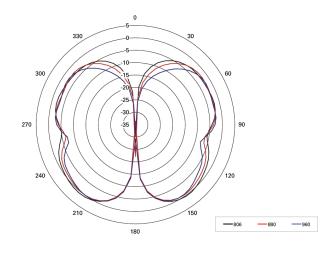
Horizontal Plane - 806-960 MHz



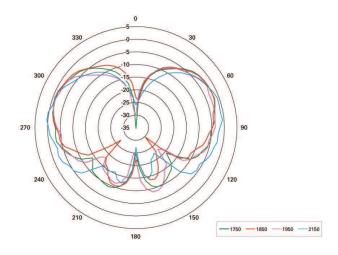
Horizontal Plane - 1710-2170 MHz



Vertical Plane - 806-960 MHz



Vertical Plane - 1710-2170 MHz



For More Information

Tel: 858 674 8100

Fax: 858 674 8262

 Pulse Worldwide Headquarters
 Larsen Brand Antenna:

 12220 World Trade Drive
 3611 NE 112th Avenue

 San Diego, CA 92128
 Vancouver, WA 98682

 U.S.A.
 USA

Tel: 360 944 7551 Tel: 49 7032 7806 0 Fax: 369 944 7556 Fax: 49 7032 7806 135

Europe Headquarters

Pulse GmbH & Do. KG

Zeppelinstrasse 15

Herrenberg

Germany

Asia Headquarters
B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejinan Road, High-Tech Zone
Nanchan District Shanzen DP China 518057

10th Kejinan Road, High-Tech Zone Nanshan District, Shenzen, PR China 518057

Tel: 86 755 33966678 Tel: 886 3 4356768 Fax: 86 755 33966700 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

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Pulse North Asia

Taiwan R. O. C.

3F, No. 198, Zhongyuan Road

Zhongli City, Taoyuan County 320