

# 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 [ $\Omega$ ]	50
VSWR	Freq 1	2.5:1
	Freq 2	2.5:1
	Freq 3	2.0:1
Gain	Freq 1 [dBi avg]	0
	Freq 2 [dBi avg]	0
Polarization	Freq 1	Linear Vertical
	Freq 2	Linear Vertical
	Freq 3	RHCP
Cable	Type [Freq 1/2]	RG-174
	Type [GPS]	RG-174

## LNA Specifications

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

## Environmental Specifications

Operating Temperature [ $^{\circ}$ C]	-40 to +85
Storage Temperature [ $^{\circ}$ C]	-40 to +85
Relative Humidity [%]	100

## Mechanical Specifications

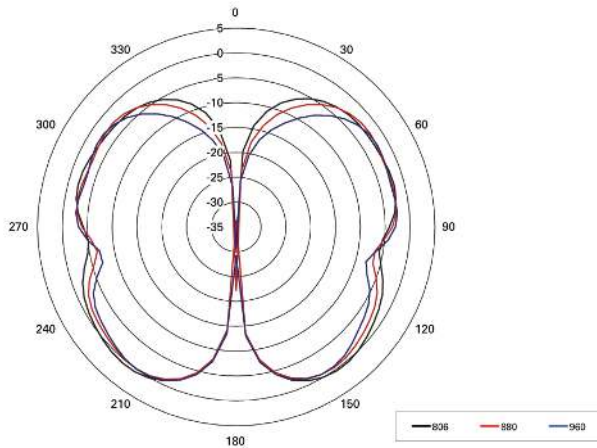
Radome Material	PC/PET, UV resistant
Color	Black
Ingress Protection	IP67
Weight [oz/g]	4.7 / 145
Dimensions [Inches/mm]	5.4 x 1.5 x .6 [136 x 37.7 x 13.8]
Mounting	Adhesive Tape

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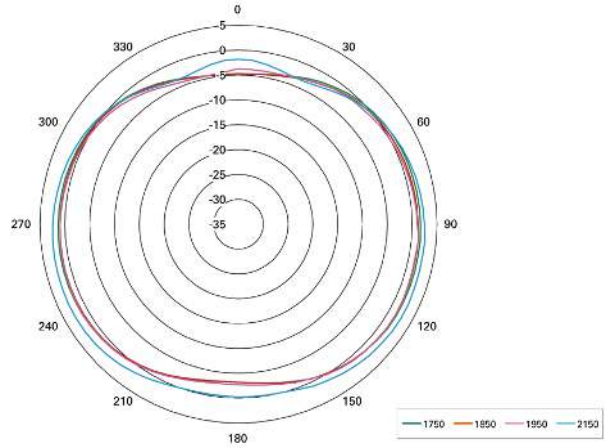
Pulse Part Number W4120 Family

## Radiation Patterns

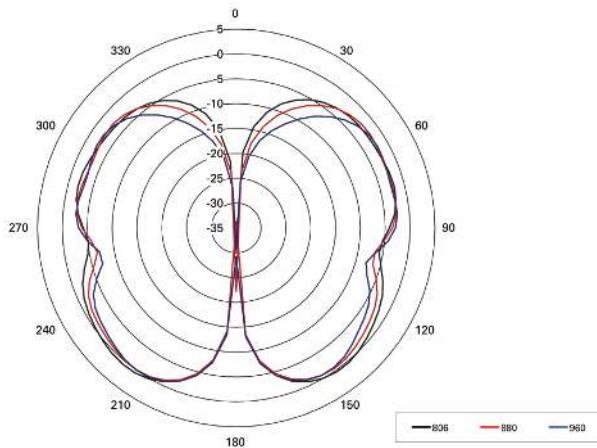
Horizontal Plane - 806-960 MHz



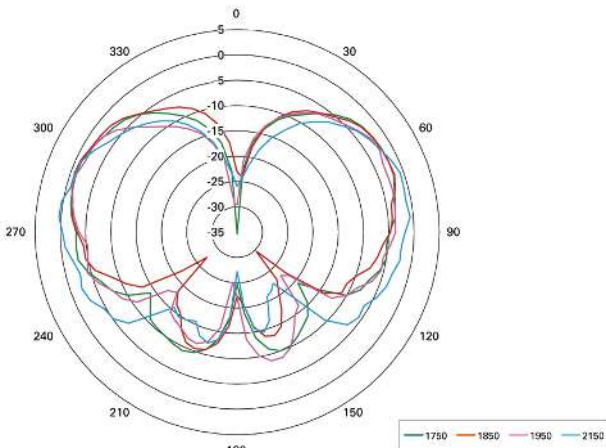
Horizontal Plane - 1710-2170 MHz



Vertical Plane - 806-960 MHz



Vertical Plane - 1710-2170 MHz



## For More Information

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