



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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
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

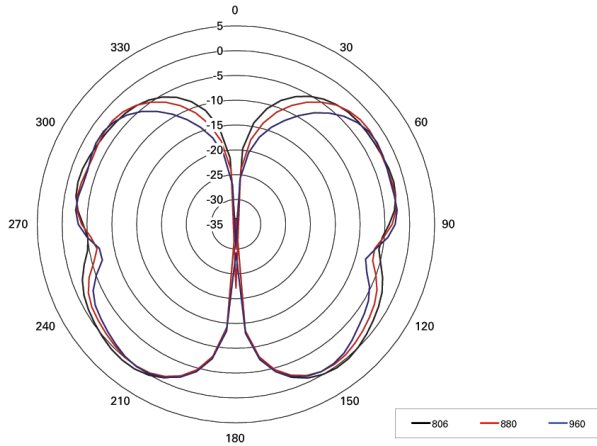
Radome Material	PC/PET, UV resistant
Color	Black
Ingress Protection	IP67
Weight [oz/g]	4.7 / 145
Dimensions [Inches/mm]	5.4 x 1.5 x .6 [136 x 37.7 x 13.8]
Mounting	Adhesive Tape

IP67 Active 6 Band GPS Antenna

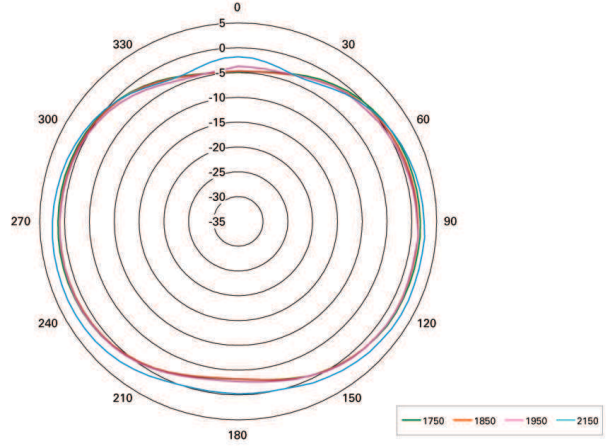
Pulse Part Number W4120 Family

Radiation Patterns

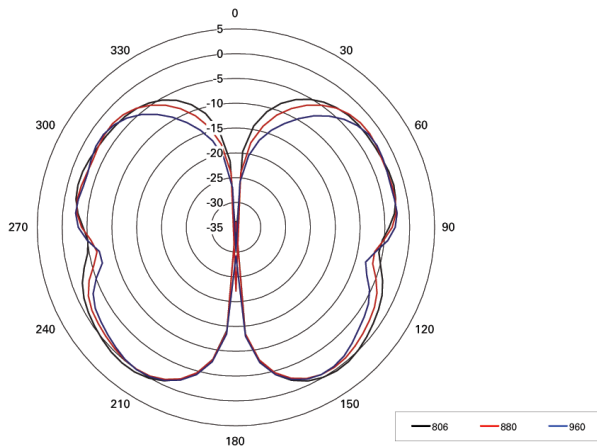
Horizontal Plane - 806-960 MHz



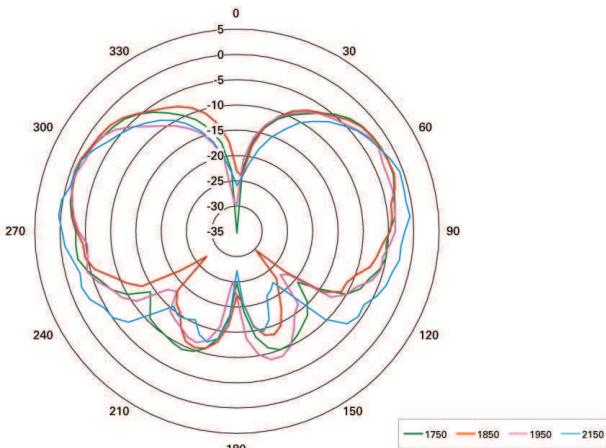
Horizontal Plane - 1710-2170 MHz



Vertical Plane - 806-960 MHz



Vertical Plane - 1710-2170 MHz



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