IP67 Active 6 Band GPS Antenna

Pulse Part Number GPSSB800/2170 Family



The GPSSB800/2170 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
GPSSB800/2170FS	16'4" (5 m)	3G - FME Female 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 ± 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

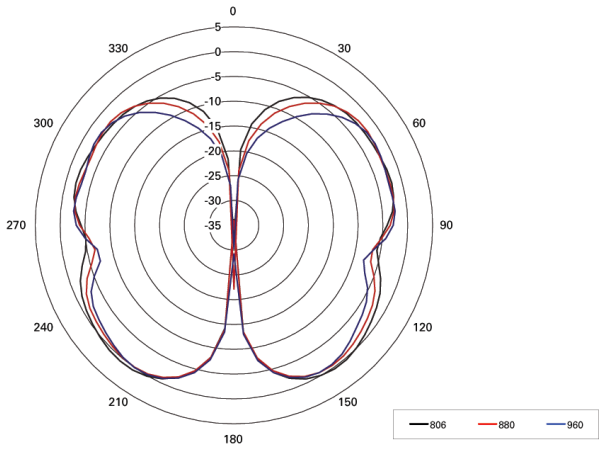
Radome Material	PC/PET, UV resistant
Color	Black
Ingress Protection	IP67
Weight [oz/g]	4.7 / 145
Dimensions [Inches/mm]	5.4 x 1.5 x .6 [136 x 37.7 x 13.8]
Mounting	Adhesive Tape

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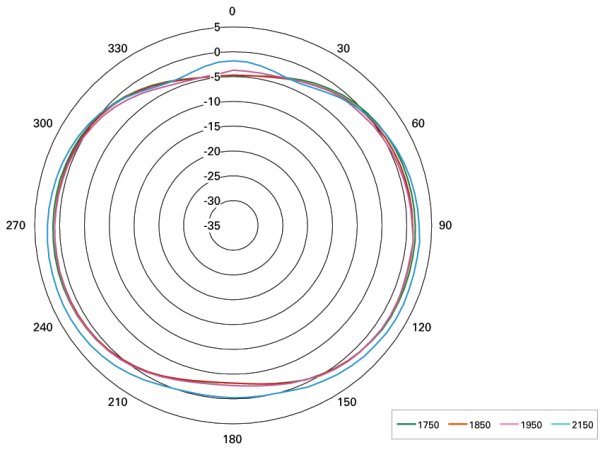
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Radiation Patterns

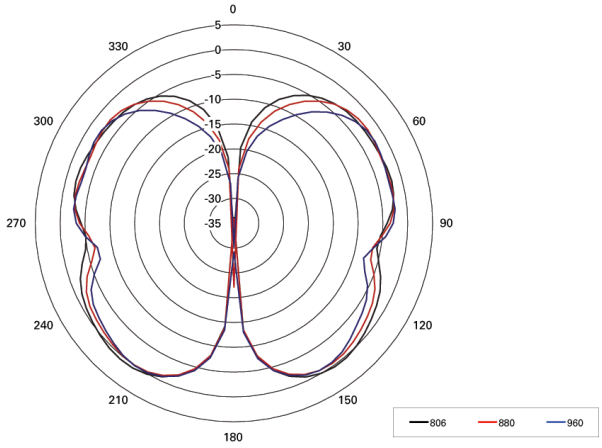
Horizontal Plane – 806-960 MHz



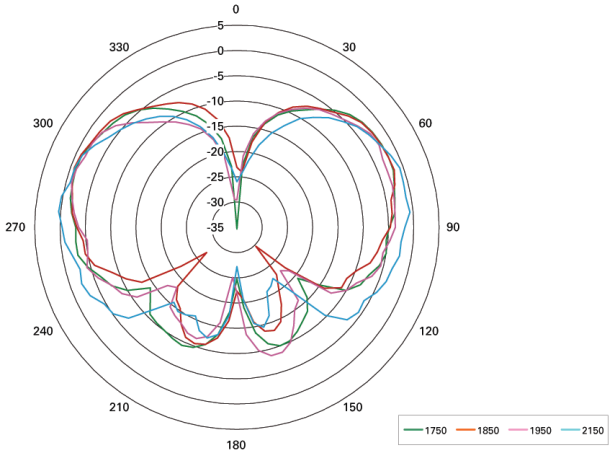
Horizontal Plane – 1710-2170 MHz



Vertical Plane – 806-960 MHz



Vertical Plane – 1710-2170 MHz



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