Interior Mount GPS & GSM/3G Antenna

Pulse Part Number W4150 Family



Pulse is proud to announce the addition of the W4150 family to the Navigation and Tracking Antenna Product line. This adhesive mount antenna operates at 824-960/ 1710-2170 MHz and GPS band of 1575.42 MHz. It is ideal for voice, mobile data, navigation and tracking applications.

The slim elliptical package is offered in a compact size of 3.94" x 2" x .3" (100 x 50 x 8 mm) and provides an aesthetically pleasing device for mounting to a windshield or dashboard. There are two RG-174 cables to connect to the radio and GPS receivers with SMA connectors. Other connector options and cable lengths are available on request.

Features
- GPS and GSM/3G antenna
- Slim, low profile elliptical package
- Easy double-sided tape mount
- RoHS Compliant Product

Applications
- Navigation Systems
- Asset Tracking
- Emergency Call Systems

P/N	Cable Length	Connector
W4150GG5000	16.4' (5 m)	GSM/3G - SMA Male GPS - SMA Male
W4150GG3000	9.8' (3 m)	GSM/3G - SMA Male GPS - SMA Male

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Electrical Specifications

	Frequency 1 [MHz]	824-960
	Frequency 2 [MHz]	1710-2170
	Frequency 3 [MHz]	1575.42
	Nominal Impedance [Ω]	50
VSWR	Frequency 1	2.5:1
	Frequency 2	2.5:1
	Frequency 3	1.5:1
Gain	Frequency 1 [dBi avg]	2
	Frequency 2 [dBi avg]	4
Radiation Pattern	Horizontal Plane	
	Vertical Plane [Freq 1]	
	Vertical Plane [Freq 2]	
	Vertical Plane [Freq 3]	
	Vertical Plane [Freq 4]	
	Polarization [Freq 1/2]	Linear Vertical
	Polarization [GPS]	Omni Directional
	Power Rating [W]	3

LNA Specifications

Gain (dB ± 2)	26
Noise Figure	1.5 Max
Current Draw	12
Voltage	3 - 5

Environmental Specifications

Operating Temperature [°C]	-40 to +85
Storage Temperature [°C]	-40 to +85
Relative Humidity [%]	20 to 95

Mechanical Specifications

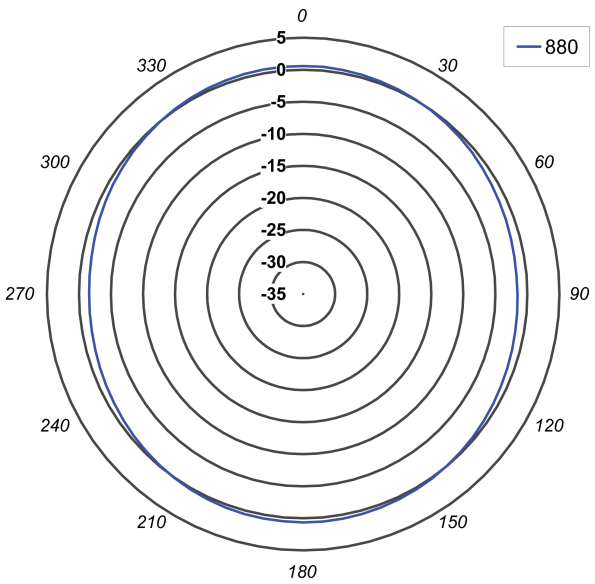
Radome Material	PC/PET [UV Stable]
Color	Black
Weight [lbs/g]	5.4 oz / 168
Dimensions [Inches/Meters]	3.94 x 2 x .3 [100 x 50 x 8]
Mounting	Adhesive Tape

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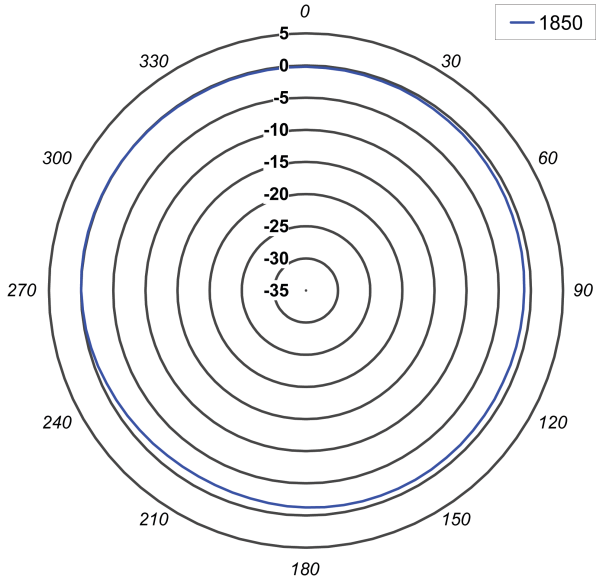
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Radiation Patterns

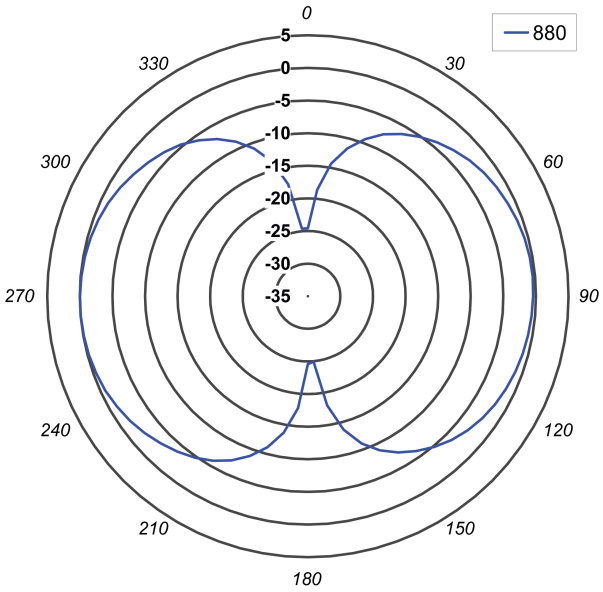
Horizontal Plane - 800 MHz



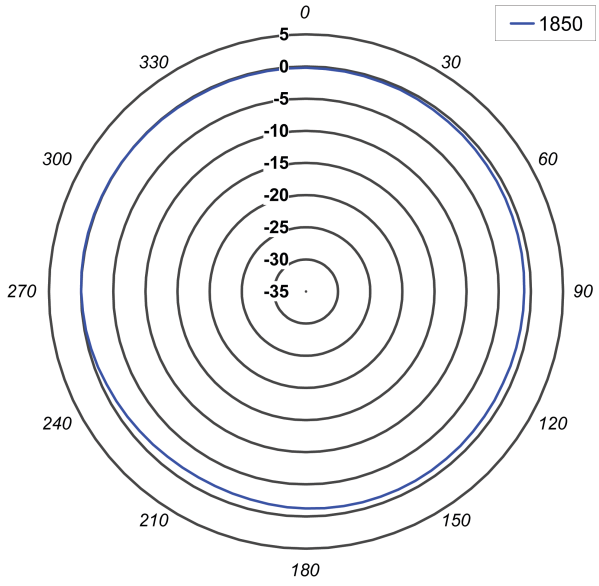
Horizontal Plane - 1900 MHz



Vertical Plane - 800 MHz



Vertical Plane - 1900 MHz



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