

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

Interior Mount GPS & GSM/3G Antenna

Pulse Part Number W4150 Family

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 \pm 2)	26
Noise Figure	1.5 Max
Current Draw	12
Voltage	3 - 5

Environmental Specifications

Operating Temperature [$^{\circ}$ C]	-40 to +85
Storage Temperature [$^{\circ}$ C]	-40 to +85
Relative Humidity [%]	20 to 95

Mechanical Specifications

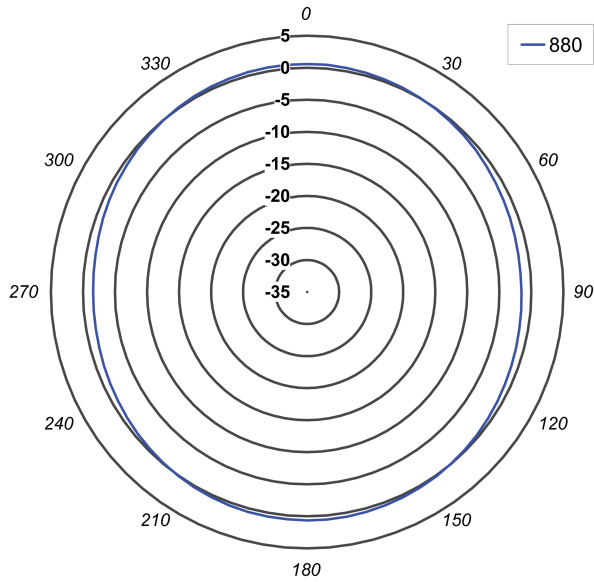
Radome Material	PC/PET [UV Stable]
Color	Black
Weight [lbs/g]	5.4 oz / 168
Dimensions [Inches/Meters]	3.94 x 2 x .3 [100 x 50 x 8]
Mounting	Adhesive Tape

Interior Mount GPS & GSM/3G Antenna

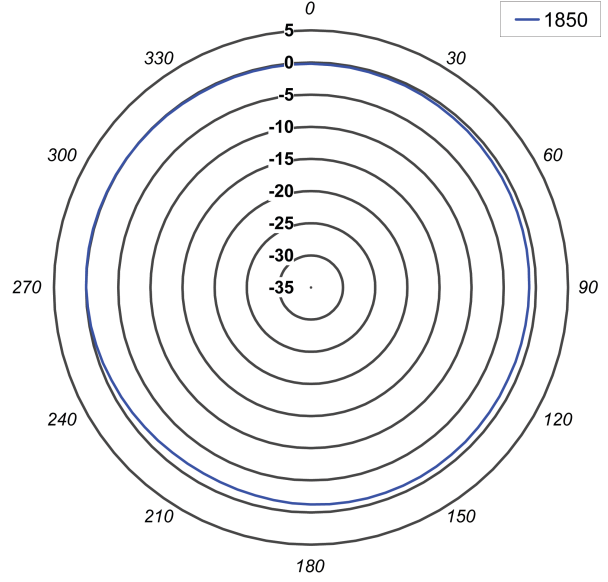
Pulse Part Number W4150 Family

Radiation Patterns

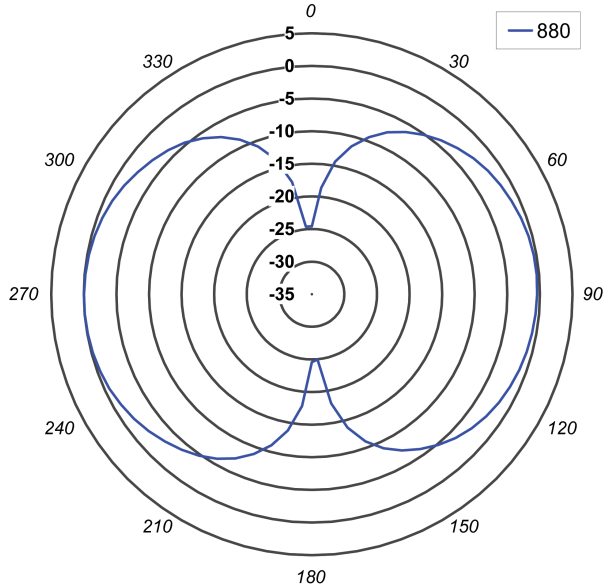
Horizontal Plane - 800 MHz



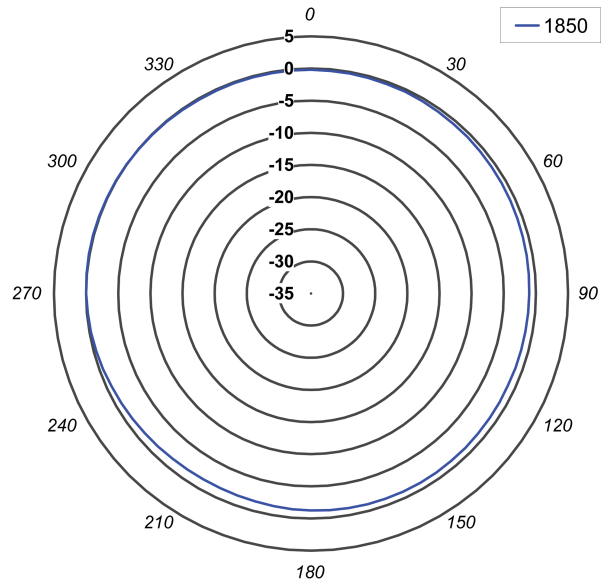
Horizontal Plane - 1900 MHz



Vertical Plane - 800 MHz



Vertical Plane - 1900 MHz



For More Information

Pulse Worldwide Headquarters

12220 World Trade Drive
San Diego, CA 92128
U.S.A.

Larsen Brand Antennas

3611 NE 112th Avenue
Vancouver, WA 98682
USA

Europe Headquarters

Pulse GmbH & Co. KG
Zeppelinstrasse 15
Herrenberg
Germany

Asia Headquarters

B402, Shenzhen Academy of
Aerospace Technology Bldg,
10th Kejian Road, High-Tech Zone
Nanshan District, Shenzhen, PR China 518057

Pulse North Asia

3F, No. 198, Zhongyuan Road
Zhongli City, Taoyuan County 320
Taiwan R. O. C.

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: 858 674 8100
Fax: 858 674 8262

Tel: 360 944 7551
Fax: 360 944 7556

Tel: 49 7032 7806 0
Fax: 49 7032 7806 135

Tel: 86 755 33966678
Fax: 86 755 33966700

Tel: 886 3 4356768
Fax: 886 3 4356823

Tel: 86 512 6807 9998
Fax: 86 512 6809 8023

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2010, Pulse Electronics, Inc. All rights reserved.