



Features:

- 3-Feeds (4G, WiFi, GNSS)
- GNSS Active Antenna
 - LNA gain 30dB
 - Pre and post LNA filtering
- Direct mount
- Connector SMA Male
- Cable 17 feet
- RoHS compliant

Applications:

- 4G LTE 698-2700MHz
- WiFi dualband 2.4/5GHz
- DSRC 5850-5925GHz
- GNSS (Beidou, GPS, Galileo, Glonass)
- Vehicular mounting
- Asset Tracking, Navigation, Fleet Management
- Mobile and Fixed broadband

All dimensions are in mm / inches

Issue: 1709

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

For more information:

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel: 1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Co, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg, 4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



Series: SharkFin
Description: 4G/WiFi/Active GNSS Direct Mount Antenna
PART NUMBER: GNSSDM700/5800SSS
ELECTRICAL SPECIFICATIONS

Frequency(LTE Cable)	698-960/1710-2170/2300-2700	MHz
Frequency(WiFi cable)	2400-2485/5150-5925	MHz
Frequency(GNSS cable)	1561.098±2.046/ 1575.42±1.023/ 1602.5625±4	MHz
Nominal Impedance	50	Ω
VSWR (LTE)*	2.5:1	Max
VSWR (WiFi/GNSS)*	2:1	Max
Peak Gain (LTE,698-960MHz,Typical)**	3.0	dBi
Peak Gain (LTE,1710-2700MHz,Typical)**	4.5	dBi
Peak Gain (WiFi, 2400-2500MHz,Typical)**	4.1	dBi
Peak Gain (WiFi, 5150-5925MHz,Typical)**	5.9	dBi
Efficiency (LTE,698-960MHz,Typical)**	83	%
Efficiency (LTE,1710-2700MHz,Typical)**	82	%
Efficiency (WiFi,2400-2500MHz,Typical)**	82	%
Efficiency (WiFi,5150-5925MHz,Typical)**	54	%
HPBW / Horizontal Plane (LTE/WiFi)**	Omni	
HPBW / Vertical Plane (LTE, 698-960MHz, Typical)**	52°	
HPBW / Vertical Plane (LTE,1710-2700MHz, Typical)**	35°	
HPBW / Vertical Plane (WiFi, 2400-2485MHz, Typical)**	32°	
HPBW / Vertical Plane (WiFi,5150-5925MHz, Typical)**	25°	
Polarization (LTE/WiFi)	Vertical	
Polarization (GNSS)	RHCP	
Power Withstanding (LTE, 698-960MHz)	100	W
Power Withstanding (LTE, 1710-2700MHz)	20	W
Power Withstanding (WiFi, 2400-5925MHz)	20	W

Issue: 1709

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Series: SharkFin

Description: 4G/WiFi/Active GNSS Direct
Mount Antenna

PART NUMBER: GNSSDM700/5800SSS

RHCP Peak Gain (Radiating element, Typical)***	1 dBic
Gain (LNA gain)	30 dB \pm 2 dB
Out of Band Rejection	
698 MHz	>70 dB
960MHz	>65 dB
1710MHz	>60 dB
2170MHz	>65 dB
2400MHz	>65 dB
2700MHz	>65 dB
Noise Figure	<2.4 dB
Operating Voltage	3.3-5 Vdc \pm 0.5V
Current Consumption	9 mA \pm 2 mA

* Tested with 5.18m cable and with 500mm ground plane

**Tested with 200mm cable and with 500mm ground plane

***Tested with 70X70mm ground plane

Issue: 1709

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Series: SharkFin

Description: 4G/WiFi/Active GNSS Direct
Mount Antenna**PART NUMBER:** GNSSDM700/5800SSS**MECHANICAL SPECIFICATIONS**

Overall Length	3.5 H x Ø4.26 /88.3 x Ø108[in/mm]
Weight	470g
Antenna Color	BLACK or WHITE
Connector type	SMA MALE
Cable type	RG58/RG174[GNSS/ LTE&WLAN]
Cable length	17' / 5.18m

ENVIRONMENTAL SPECIFICATIONS

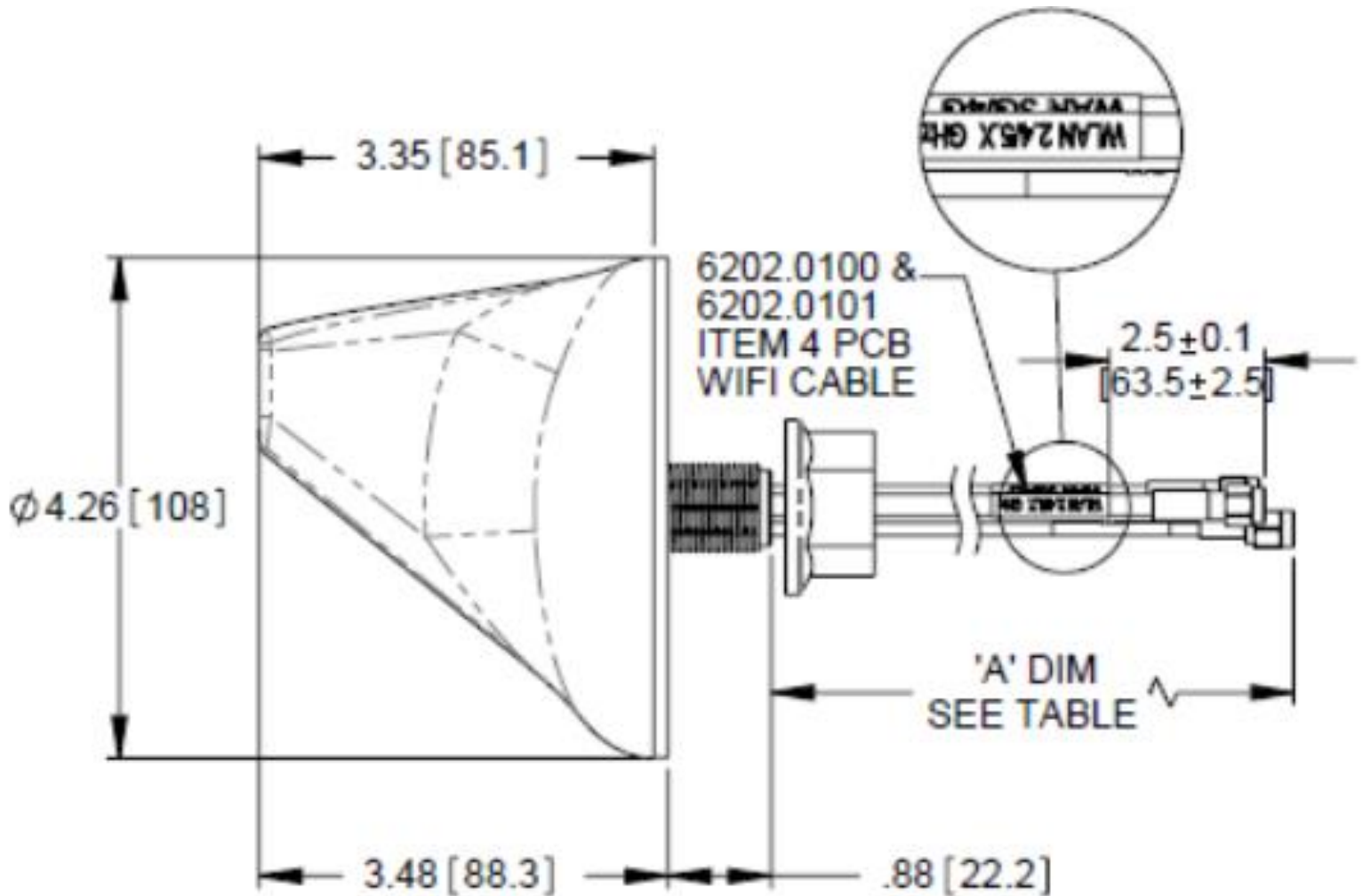
Operating Temperature	-40/+85 ° C
Storage Temperature	-40/+85 ° C
Ingress Protection	IP65
Wind-loading	120km/h
RoHS Compliant	Yes

Series: SharkFin

Description: 4G/WiFi/Active GNSS Direct Mount Antenna

PART NUMBER: GNSSDM700/5800SSS

MECHANICAL DRAWING



Issue: 1709

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Series: SharkFin

Description: 4G/WiFi/Active GNSS Direct
Mount Antenna

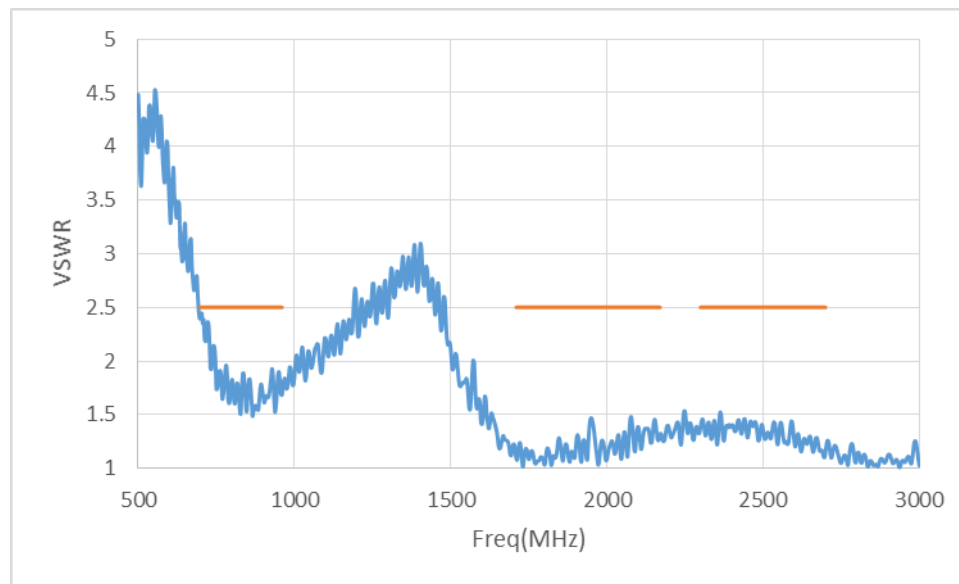
PART NUMBER: GNSSDM700/5800SSS

Test Setup

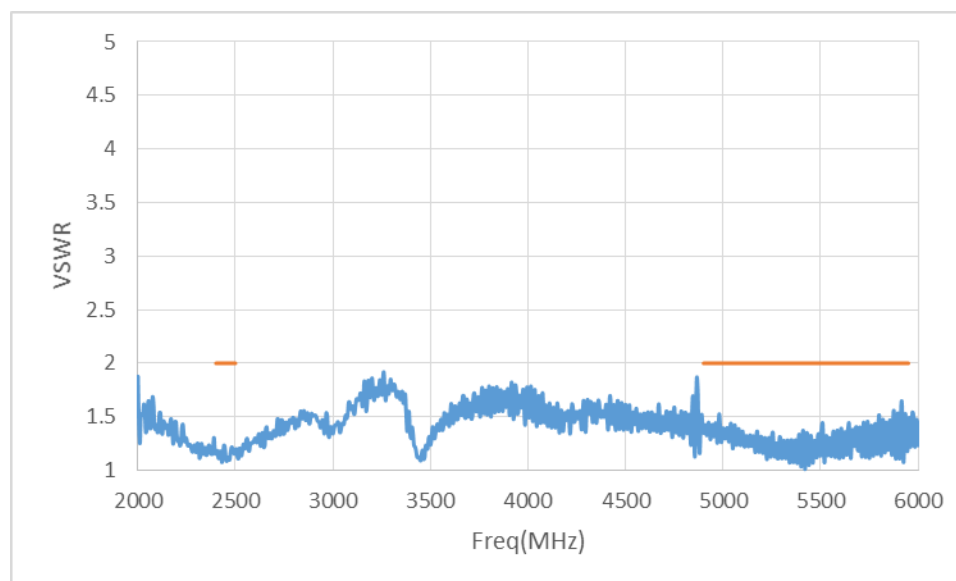
- * VSWR is tested with 5.18m cable and with 500mm ground plane
- **Radiation performance is tested with 200mm cable and with 500mm ground plane
- ***GNSS module is tested with 70X70mm ground plane

CHARTS

VSWR of LTE



VSWR of WiFi



Issue: 1709

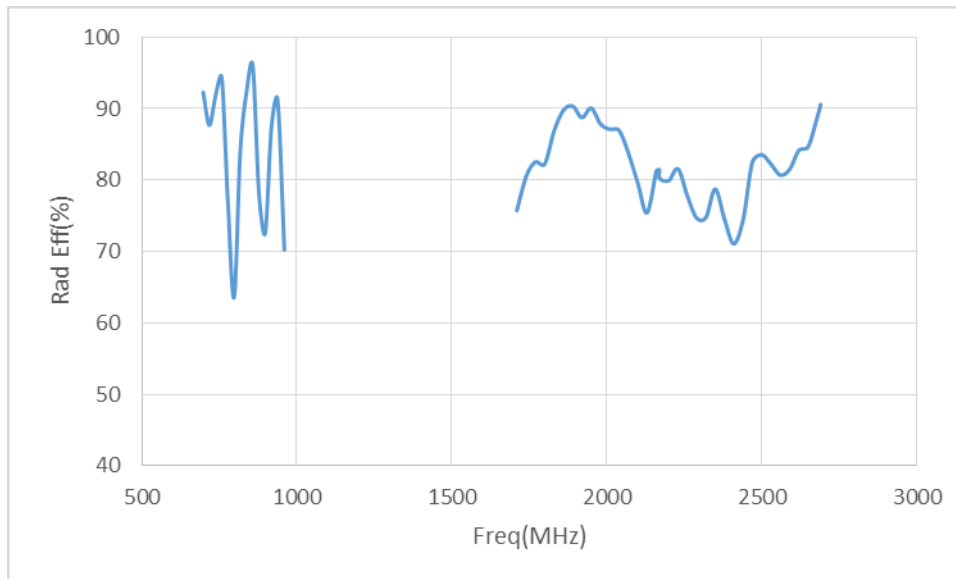
In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

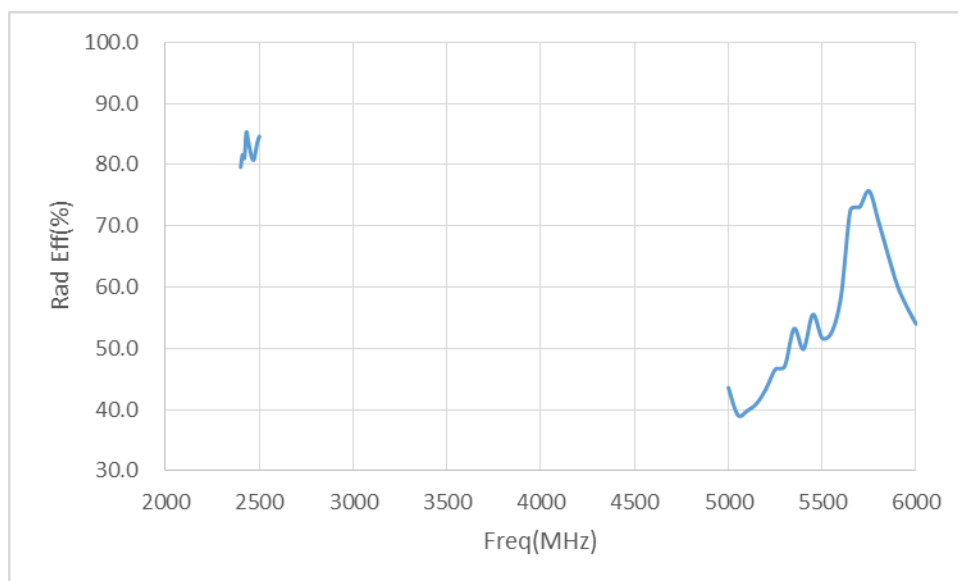
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

CHARTS

Radiation Efficiency of LTE

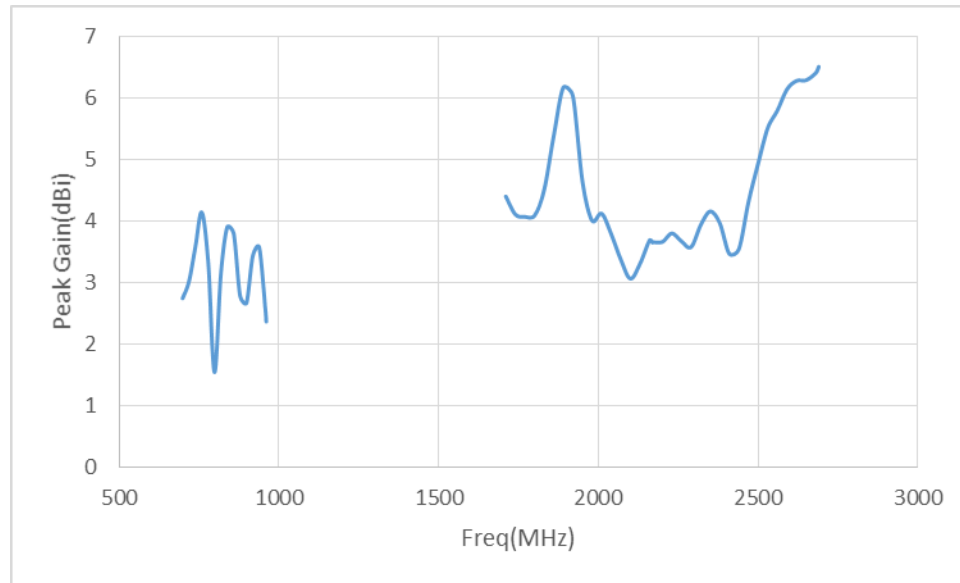


Radiation Efficiency of WiFi

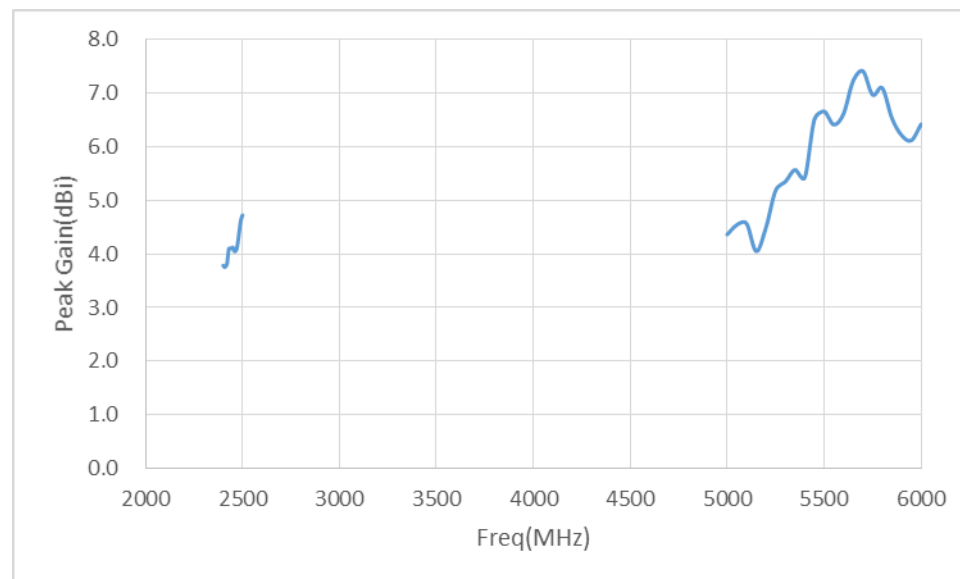


CHARTS

Peak Gain of LTE

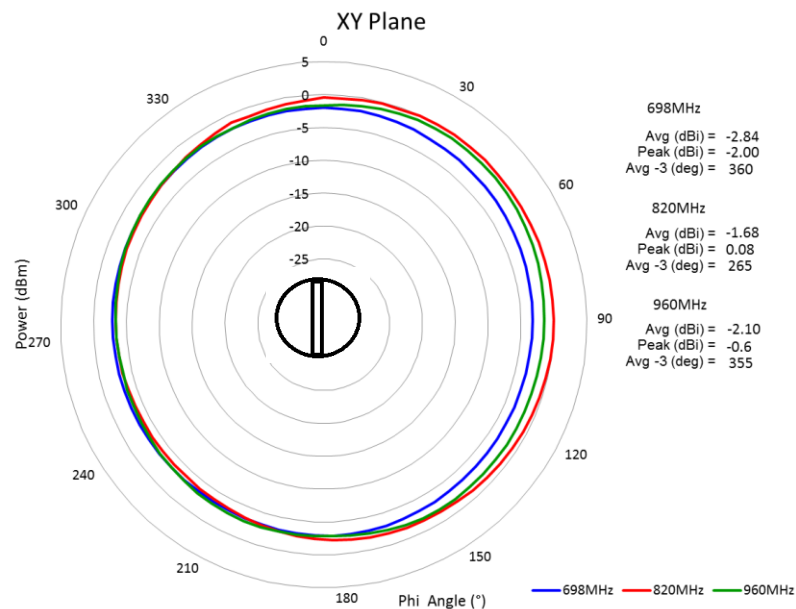


Peak Gain of WiFi

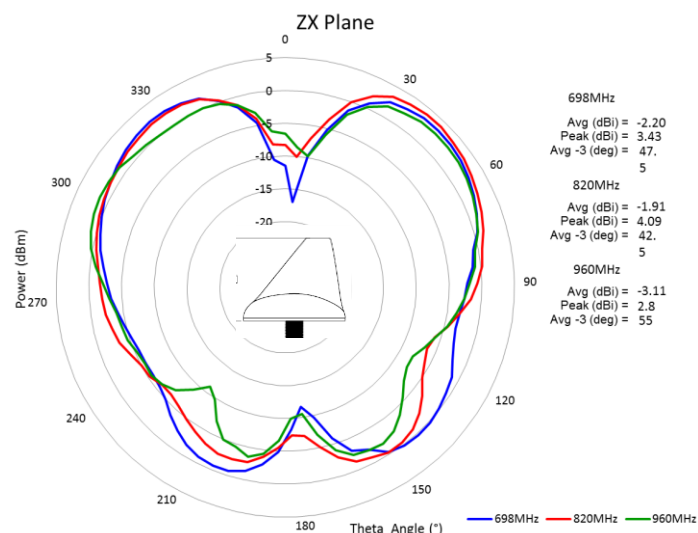


CHARTS

LTE antenna X-Y plane radiation pattern at LTE low band



LTE antenna Z-X plane radiation pattern at LTE low band



Issue: 1709

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

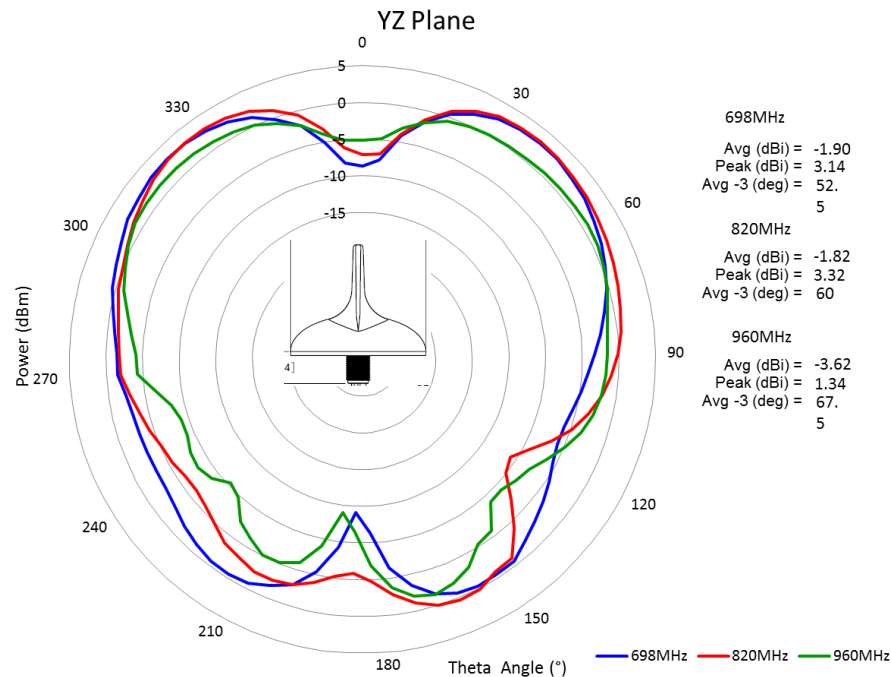
Series: SharkFin

Description: 4G/WiFi/Active GNSS Direct Mount Antenna

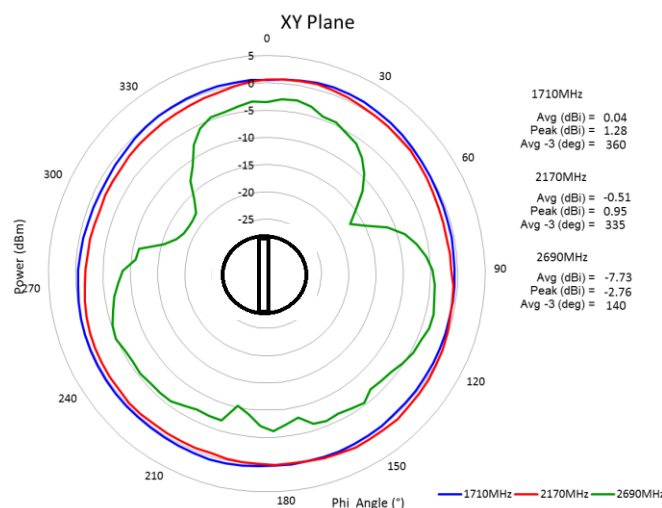
PART NUMBER: GNSSDM700/5800SSS

CHARTS

LTE antenna Y-Z plane radiation pattern at LTE low band



LTE antenna X-Y plane radiation pattern at LTE high band



Issue: 1709

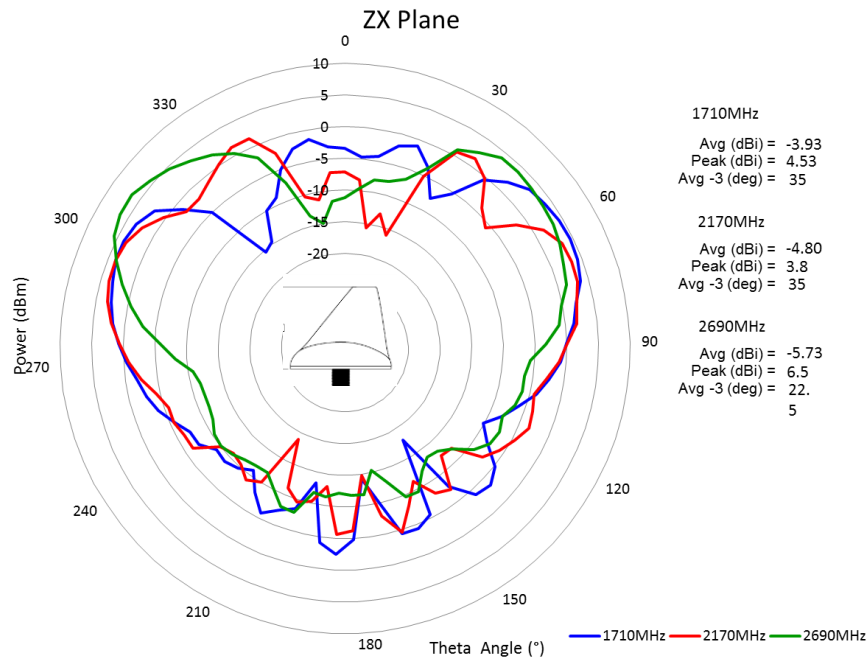
In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

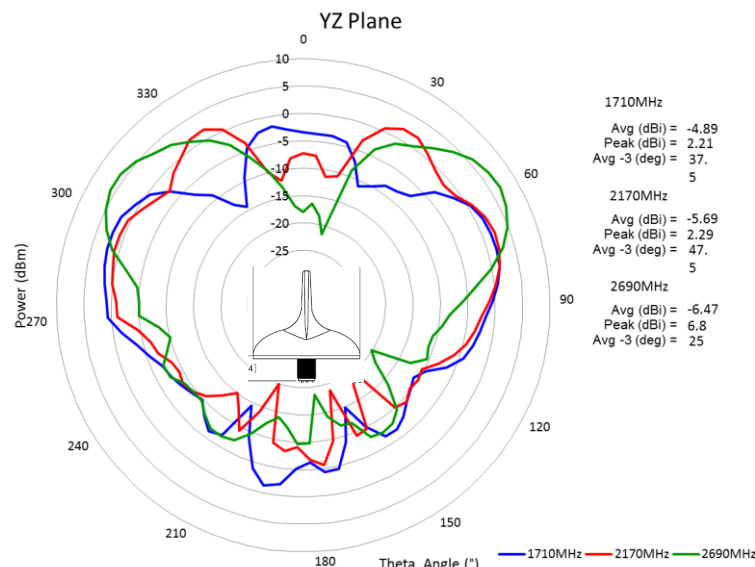
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

CHARTS

LTE antenna Z-X plane radiation pattern at LTE high band



LTE antenna Y-Z plane radiation pattern at LTE high band



Issue: 1709

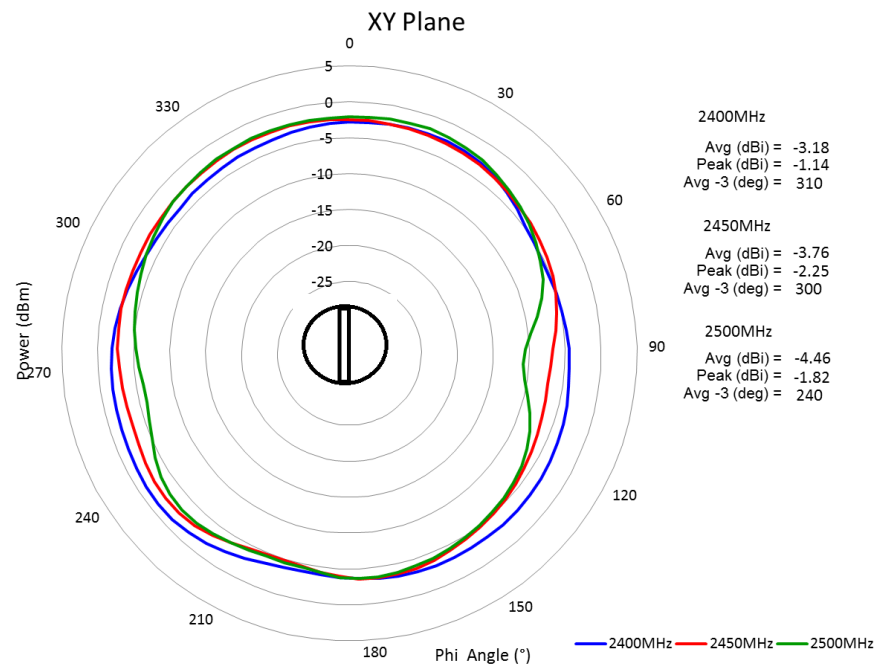
In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

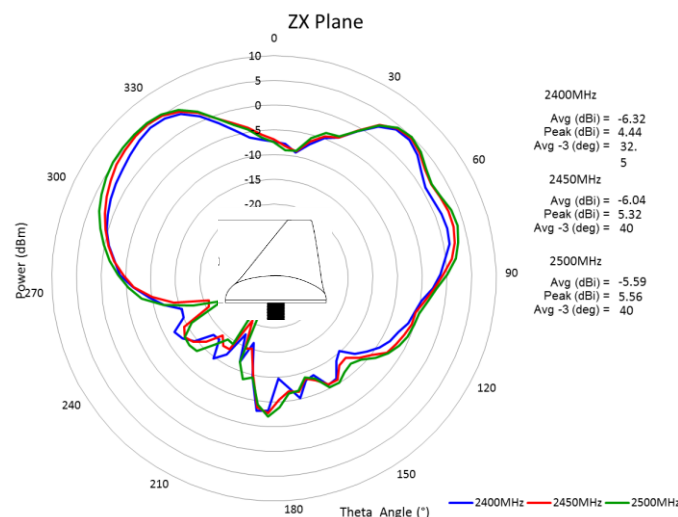
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

CHARTS

WiFi antenna X-Y plane radiation pattern at WiFi low band



WiFi antenna Z-X plane radiation pattern at WiFi low band



Issue: 1709

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

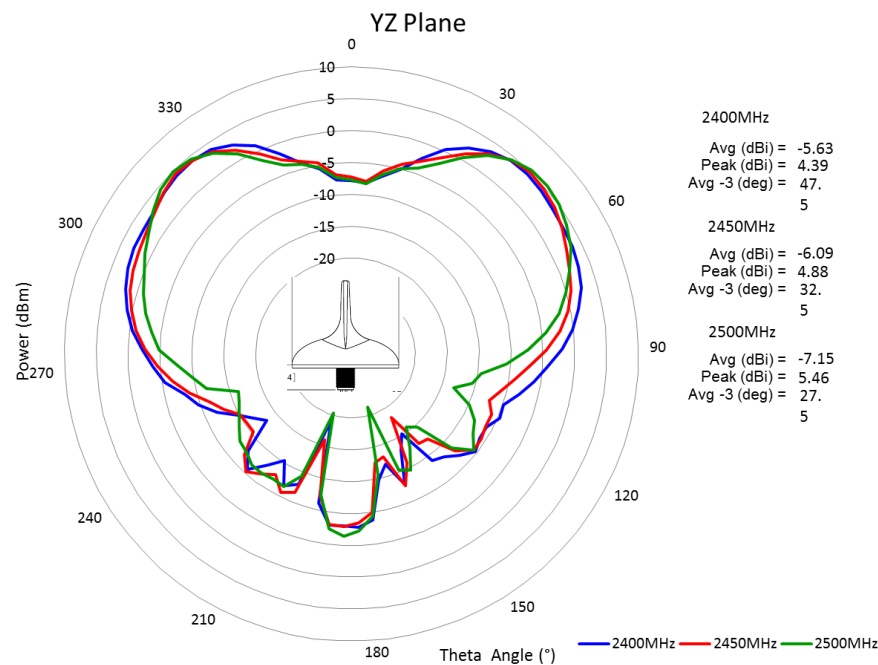
Series: SharkFin

Description: 4G/WiFi/Active GNSS Direct Mount Antenna

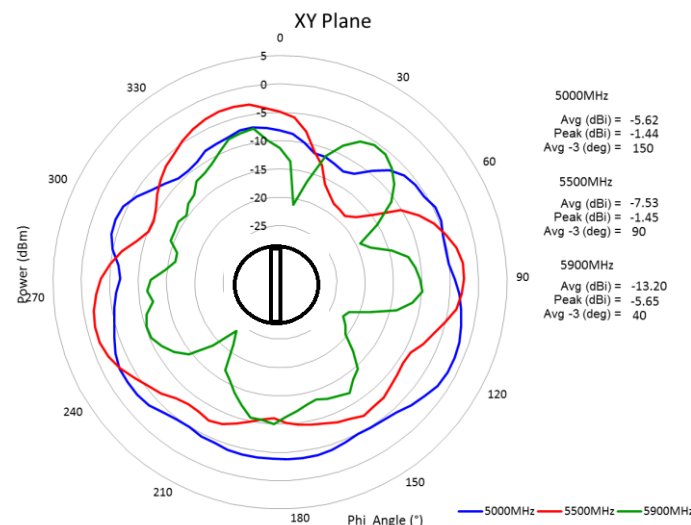
PART NUMBER: GNSSDM700/5800SSS

CHARTS

WiFi antenna Y-Z plane radiation pattern at WiFi low band



WiFi antenna X-Y plane radiation pattern at WiFi high band



Issue: 1709

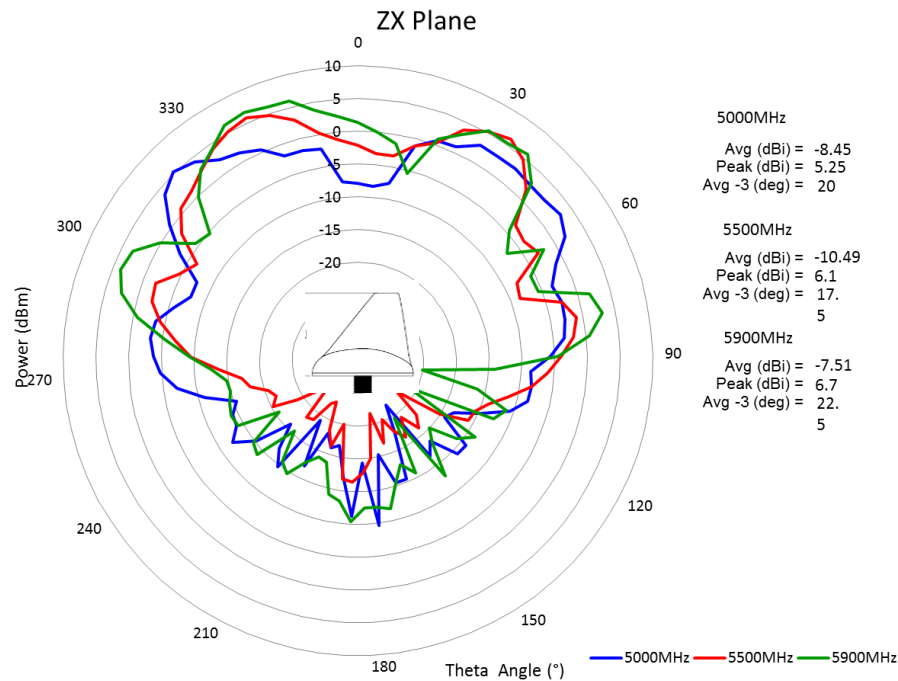
In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

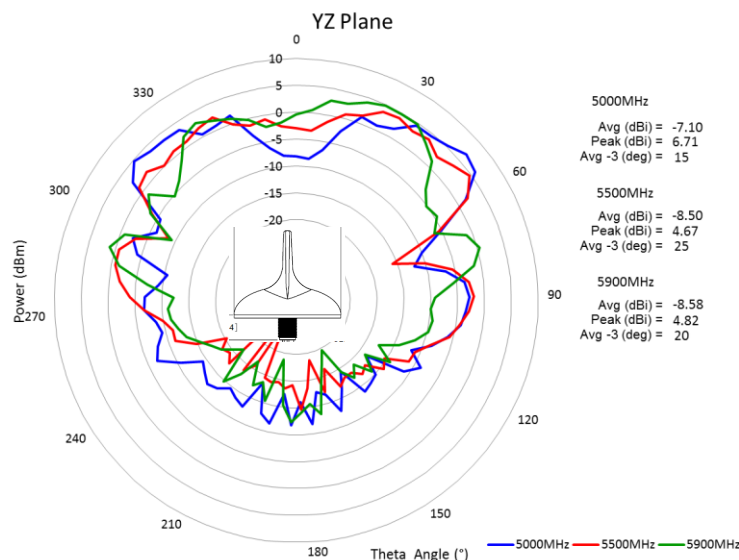
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

CHARTS

WiFi antenna Z-X plane radiation pattern at WiFi high band



WiFi antenna Y-Z plane radiation pattern at WiFi high band



Issue: 1709

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

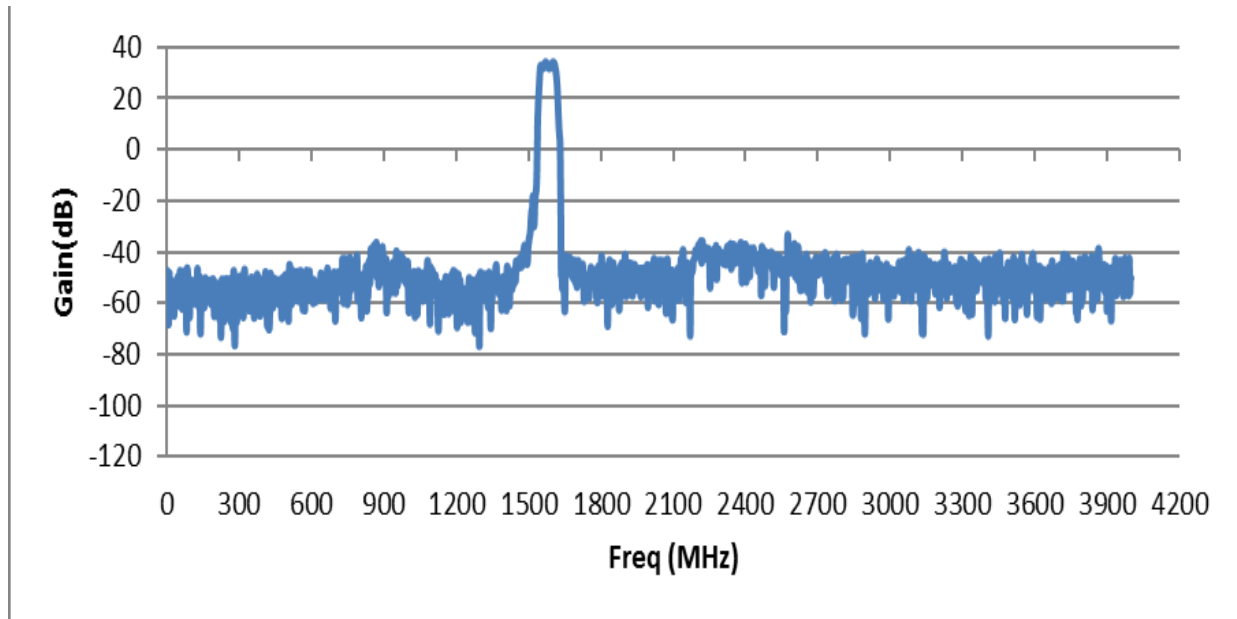
Series: SharkFin

Description: 4G/WiFi/Active GNSS Direct Mount Antenna

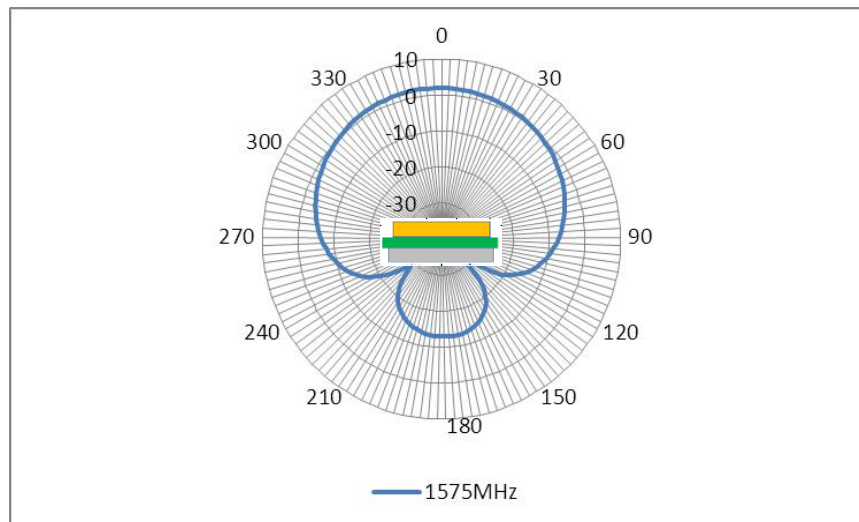
PART NUMBER: GNSSDM700/5800SSS

CHARTS

LNA Gain and out-of-band rejection



Radiation Pattern (70mm x 70mm ground plane) GPS & Galileo



Issue: 1709

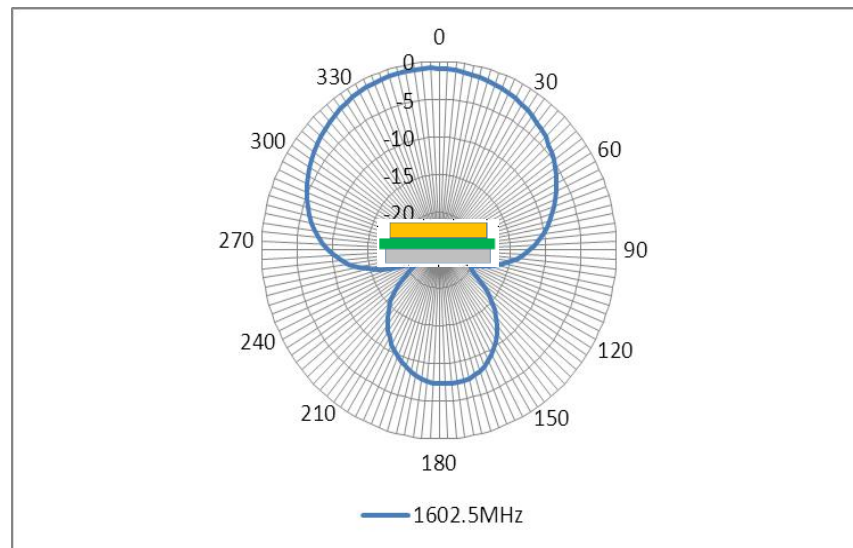
In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

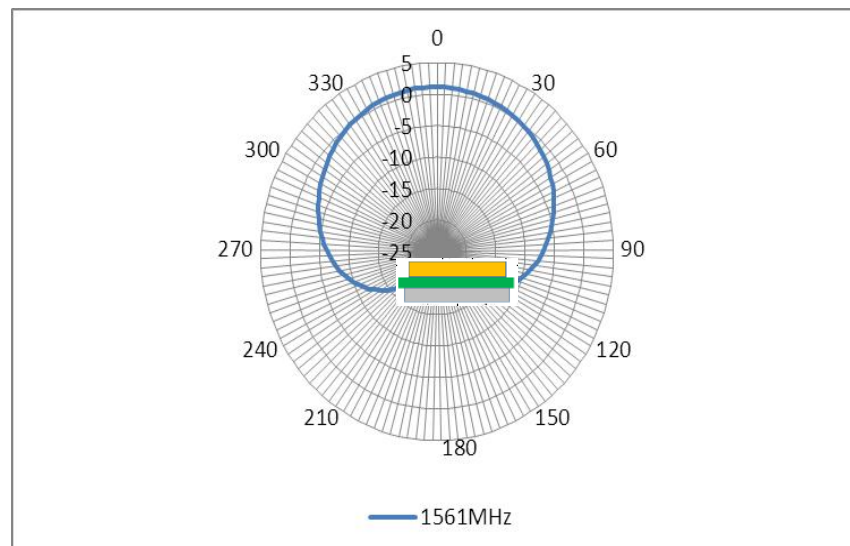
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

CHARTS

Radiation Pattern (70mm x 70mm ground plane) GLONASS



Radiation Pattern (70mm x 70mm ground plane) BD2



Series: SharkFin

Description: 4G/WiFi/Active GNSS Direct
Mount Antenna

PART NUMBER: GNSSDM700/5800SSS

PACKAGING

1pcs antennas per PE bag

12pcs antenna per package box

Package box: 400mm*300mm*30mm

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А