

**Description:** LTE 698-3600MHz FPC Antenna

**Series:** Gemini

**PART NUMBER:** W3907XXXX



## Features:

- 2G / 3G / 4G Div Ant for MiMo
- Used as pair for W3906B0100
- Can be used as Primary antenna
- 698-3600MHz
- Global LTE Bands:
  - B1-B23, B25-B29, B33-B42
  - N.A.; Europe, Asia (incl. Jap.)
- Foldable for tight spaces

## Applications:

- Challenging RF Environments Demanding:
  - Highest Peak Gain
  - Lowest ECC (Envelope Correlation Coeff.).
- Matched to Radio Modules from:
  - Sierra Wireless, Quectel, Telit, Huawei, Gemalto, uBlox, ZTE, and others.
- Security, Video, Graphics
- IoT, SmartGrid, Meters, Remote Monitoring, Sensor Networks

All dimensions are in mm / inches

Issue: 1907

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 34<sup>th</sup> 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, 4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



**Description:** LTE 698-3600MHz FPC Antenna

**Series:** Gemini

**PART NUMBER:** W3907XXXX

**ELECTRICAL SPECIFICATIONS**

P/N	W3907B0100/ W3907B0127/ W3907BD0100	W3907BD0350
Frequency	698-960/1427.9- 1510.9/1559- 1610/1695- 2200/2300- 2700/3400- 3600MHz	698-960/1427.9-1510.9/1559- 1610/1695-2200/2300- 2700/3400-3600MHz
Return Loss(698-960MHz)	-6dB	-6dB
Return Loss(1427.9-1510.9/1559- 1610/1695-2200/2300-2700/3400- 3600MHz)	-7.5dB	-7.5dB
Average Total Efficiency(698-960MHz)	55%	49%
Average Total Efficiency(1427.9- 1510.9MHz)	60%	48%
Average Total Efficiency(1559-1610MHz)	60%	52%
Average Total Efficiency(1695-2200MHz)	65%	48%
Average Total Efficiency(2300-2700MHz)	70%	48%
Average Total Efficiency(3400-3600MHz)	65%	40%

Issue: 1907

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 34<sup>th</sup> 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, 4<sup>th</sup> Phase  
 Suzhou New District  
 Jiangsu Province, Suzhou 215009 PR China  
 Tel: 86 512 6807 9998


**Description:** LTE 698-3600MHz FPC Antenna

**Series:** Gemini

**PART NUMBER:** W3907XXXX

**ELECTRICAL SPECIFICATIONS**

P/N	W3907B0100/ W3907B0127/ W3907BD0100	W3907BD0350
Peak Gain(698-960MHz)	2.9dBi	1.0dBi
Peak Gain(1427.9-1510.9MHz)	1.7dBi	1.1dBi
Peak Gain(1559-1610MHz)	1.8dBi	1.4dBi
Peak Gain(1695-2200MHz)	3.4dBi	2.2dBi
Peak Gain(2300-2700MHz)	3.8dBi	2.0dBi
Peak Gain(3400-3600MHz)	4.2dBi	1.4dBi
Polarization	Linear	Linear
Nominal Impedance	50ohm	50ohm
Power Standing	3W	3W

**Typical free space performance measured on 2mm thickness PC plate**

Issue: 1907

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 34<sup>th</sup> St Bldg 2 Suite 250  
 Vancouver, WA 98683  
 USA  
 Tel: 1-360-944-7551

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

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


**Description:** LTE 698-3600MHz FPC Antenna

**Series:** Gemini

**PART NUMBER:** W3907XXXX

## MECHANICAL SPECIFICATIONS

Overall Length	110.7X20.4mm
Antenna Color / Material	BLACK FPC
Cable type	See table detail
Cable length	See table detail

## ENVIRONMENTAL SPECIFICATIONS

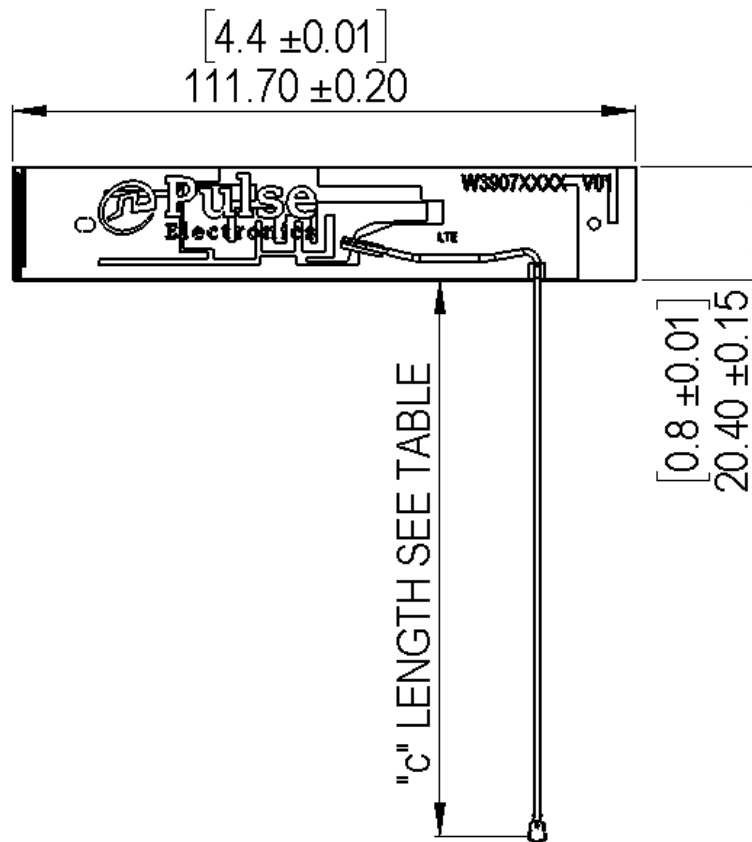
Operating Temperature	-40~+85° C
Storage Temperature	-40~+85° C
RoHS Compliant	Yes

Description: LTE 698-3600MHz FPC Antenna

Series: Gemini

PART NUMBER: W3907XXXX

MECHANICAL DRAWING



P.N	"C" LENGTH	CABEL TYPE	CONNECTOR TYPE
W3907B0100	100MM	AWG#32 1.13MM	Equivalent of I-PEX MHF
W3907BD0100		AWG#36 0.81MM	Equivalent of I-PEX MHF4
W3907B0127	127MM	AWG#32 1.13MM	Equivalent of I-PEX MHF
W3907BD0350	350MM	AWG#36 0.81MM	Equivalent of I-PEX MHF4

Issue: 1907

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.

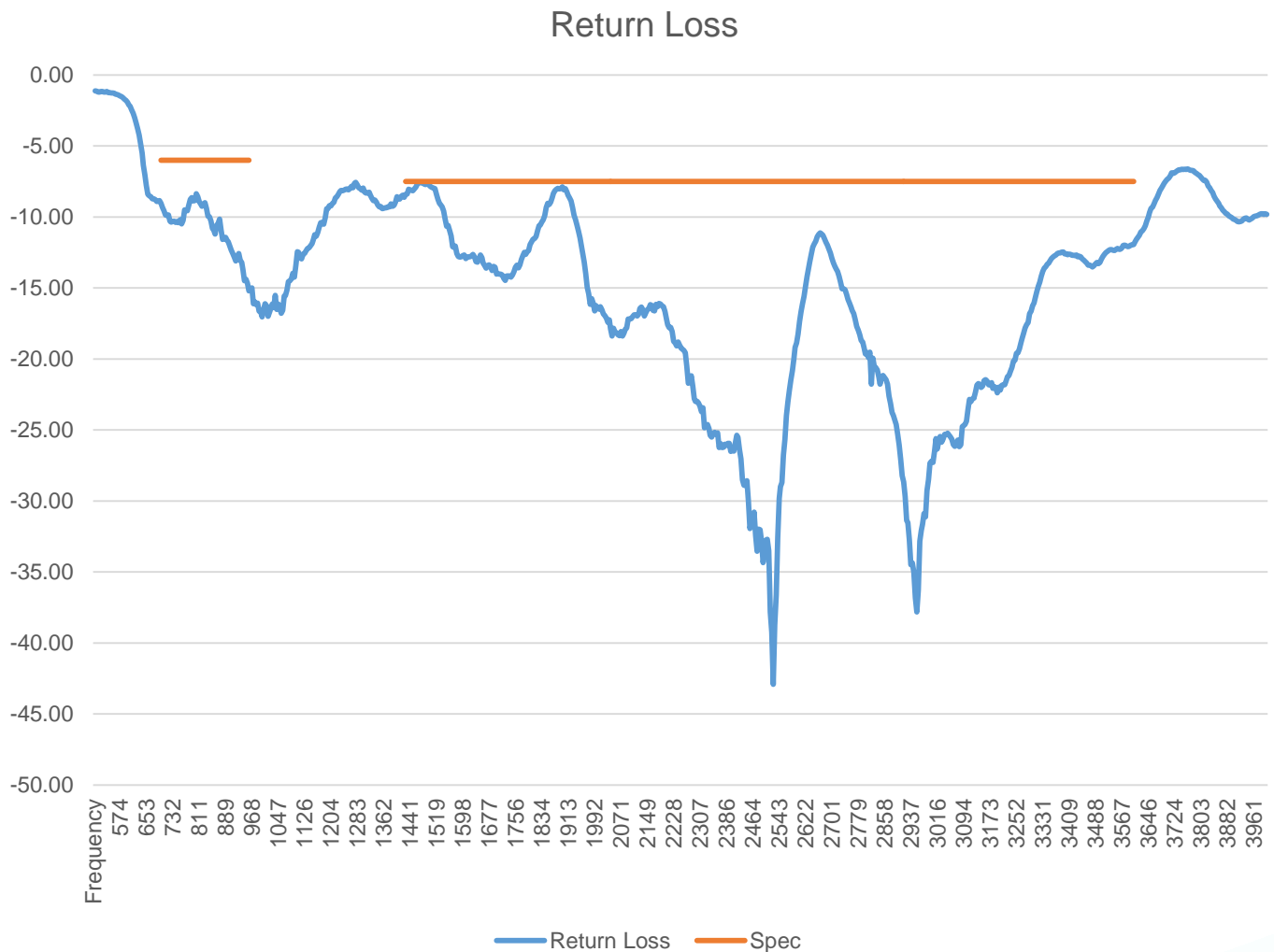
**Description:** LTE 698-3600MHz FPC Antenna

**Series:** Gemini

**PART NUMBER:** W3907XXXX

## CHARTS

### Return Loss



**Note:** Antenna tested on 2mm thickness PC plate with 100mm feed cable

Issue: 1907

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.

**Description:** LTE 698-3600MHz FPC Antenna

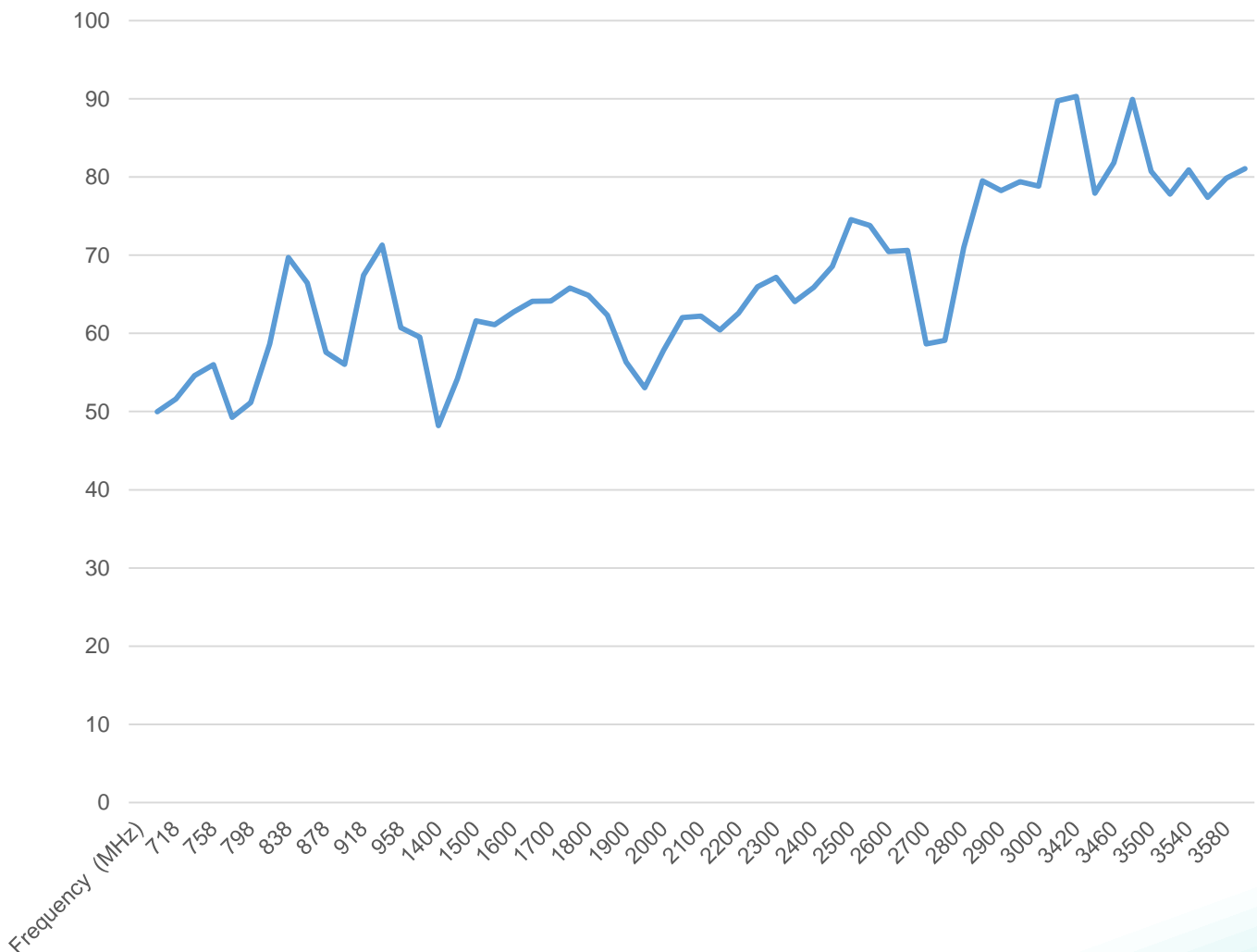
**Series:** Gemini

**PART NUMBER:** W3907XXXX

## CHARTS

### Efficiency

Efficiency(%)



**Note:** Antenna tested on 2mm thickness PC plate with 100mm feed cable

Issue: 1907

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.

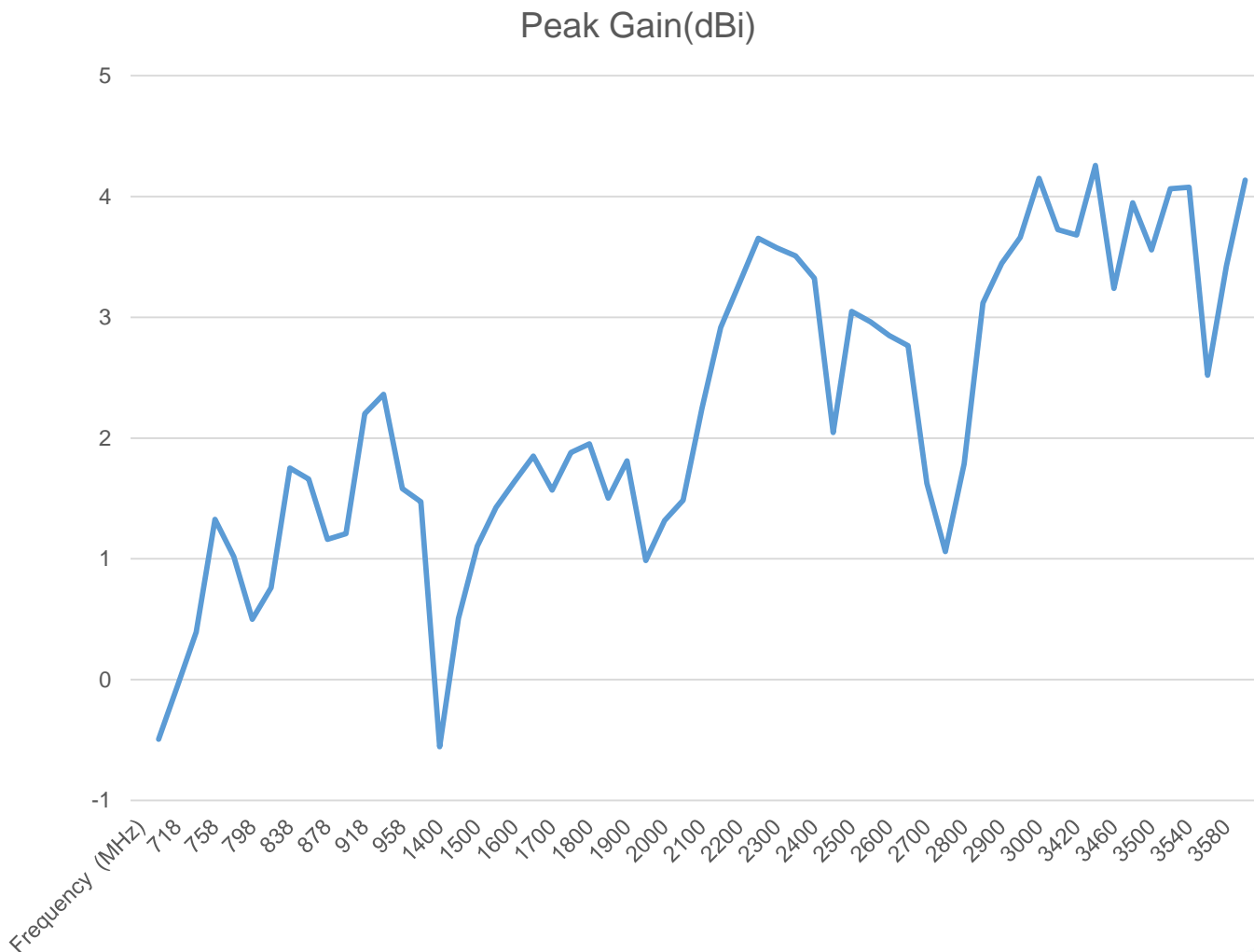
Description: LTE 698-3600MHz FPC Antenna

Series: Gemini

PART NUMBER: W3907XXXX

## CHARTS

### Peak Gain



**Note: Antenna tested on 2mm thickness PC plate with 100mm feed cable**

Issue: 1907

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.



Description: LTE 698-3600MHz FPC Antenna

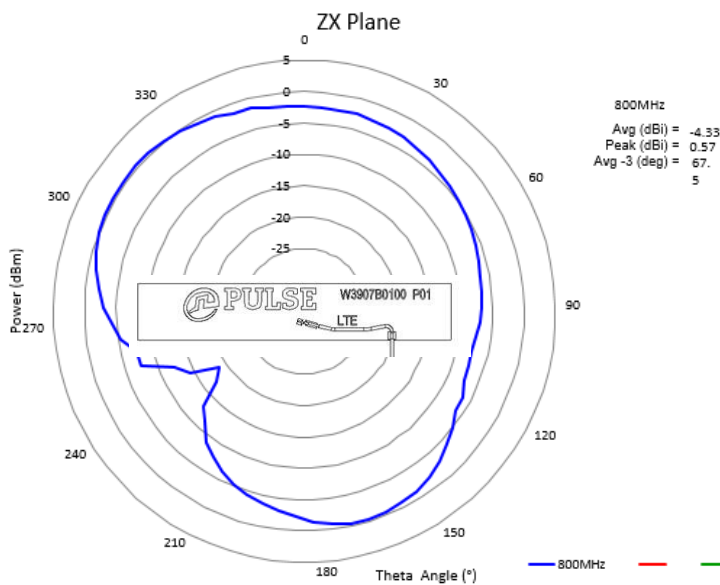
Series: Gemini

PART NUMBER: W3907XXXX

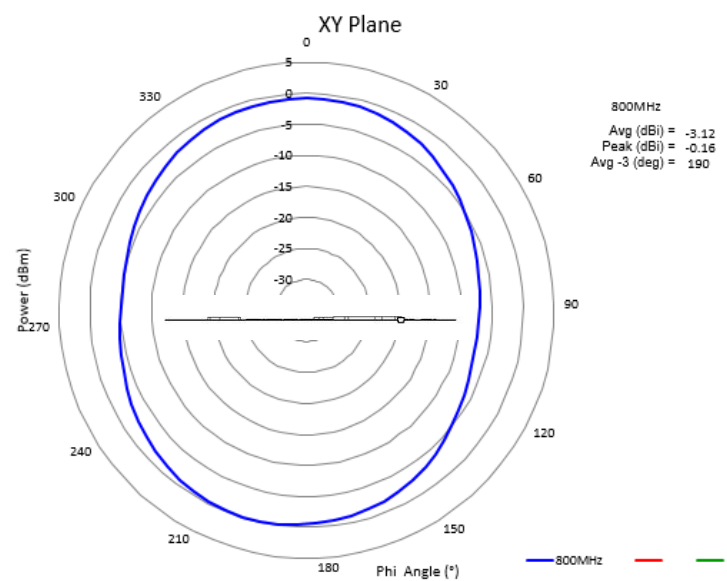
## CHARTS

Typical free space radiation pattern  
698-960MHz  
(800MHz)

### Elevation Plane



### Horizontal Plane



**Note: Antenna tested on 2mm thickness PC plate with 100mm feed cable**

Issue: 1907

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.

Description: LTE 698-3600MHz FPC Antenna

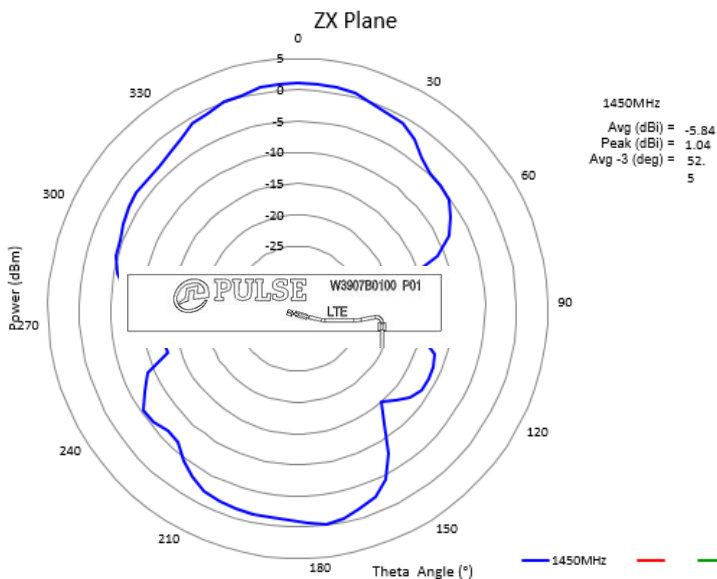
Series: Gemini

PART NUMBER: W3907XXXX

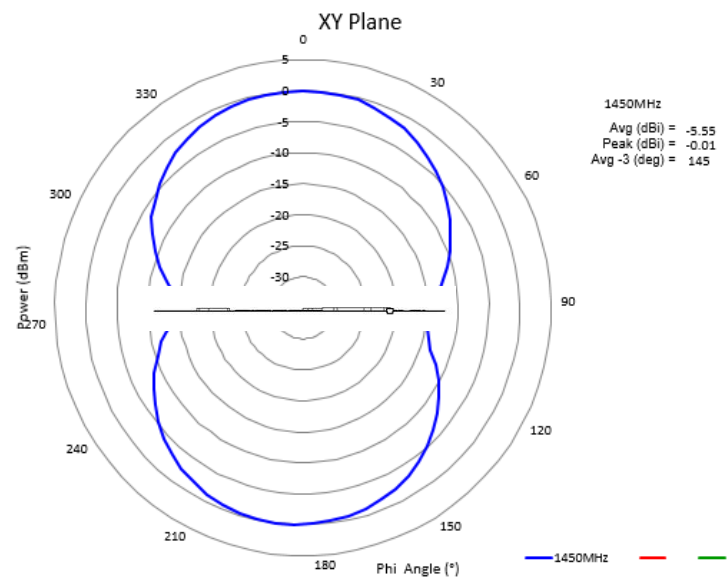
## CHARTS

Typical free space radiation pattern  
1427.9-1510.9MHz  
(1450MHz)

Elevation Plane



Horizontal Plane



**Note: Antenna tested on 2mm thickness PC plate with 100mm feed cable**

Issue: 1907

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.

Description: LTE 698-3600MHz FPC Antenna

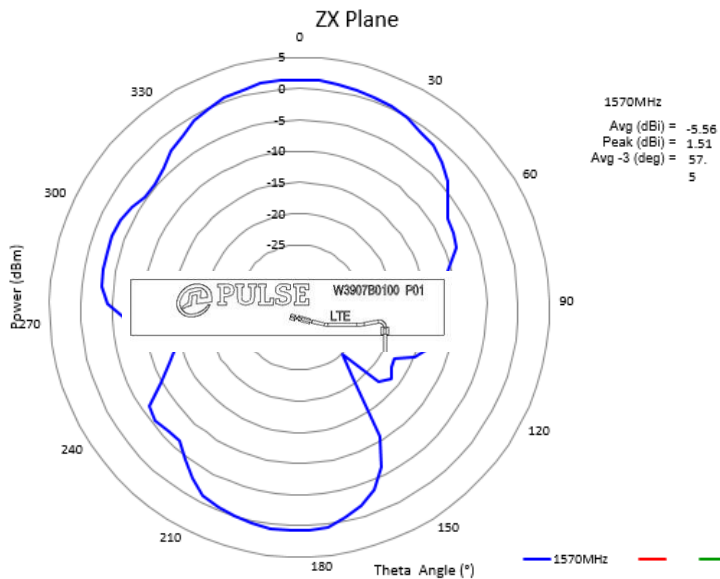
Series: Gemini

PART NUMBER: W3907XXXX

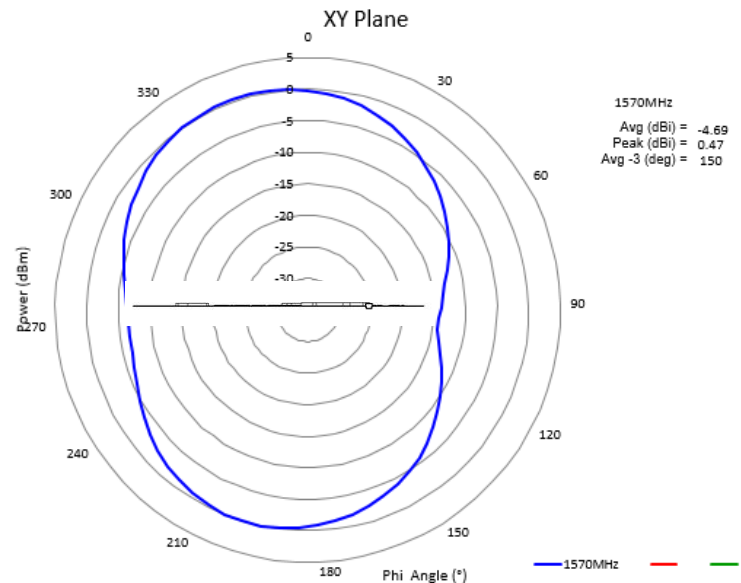
## CHARTS

Typical free space radiation pattern  
1559-1610MHz  
(1570MHz)

Elevation Plane



Horizontal Plane



**Note: Antenna tested on 2mm thickness PC plate with 100mm feed cable**

Issue: 1907

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.

Description: LTE 698-3600MHz FPC Antenna

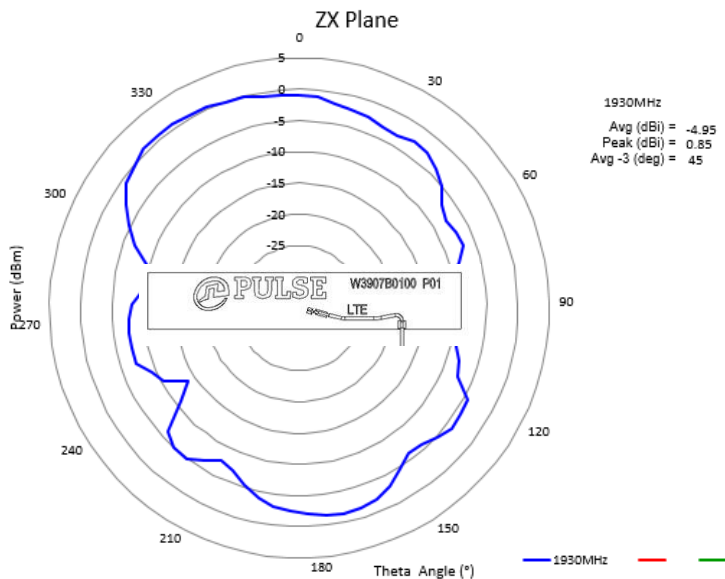
Series: Gemini

PART NUMBER: W3907XXXX

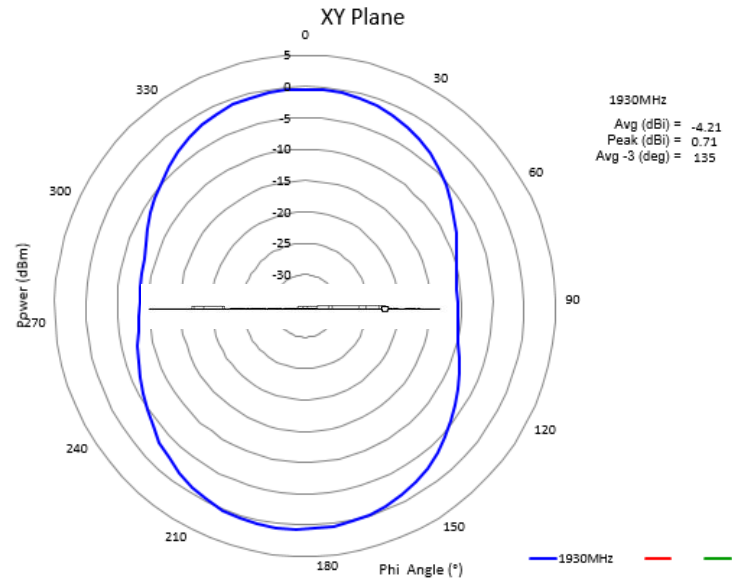
## CHARTS

Typical free space radiation pattern  
1695-2200MHz  
(1930MHz)

### Elevation Plane



### Horizontal Plane



**Note: Antenna tested on 2mm thickness PC plate with 100mm feed cable**

Issue: 1907

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.

Description: LTE 698-3600MHz FPC Antenna

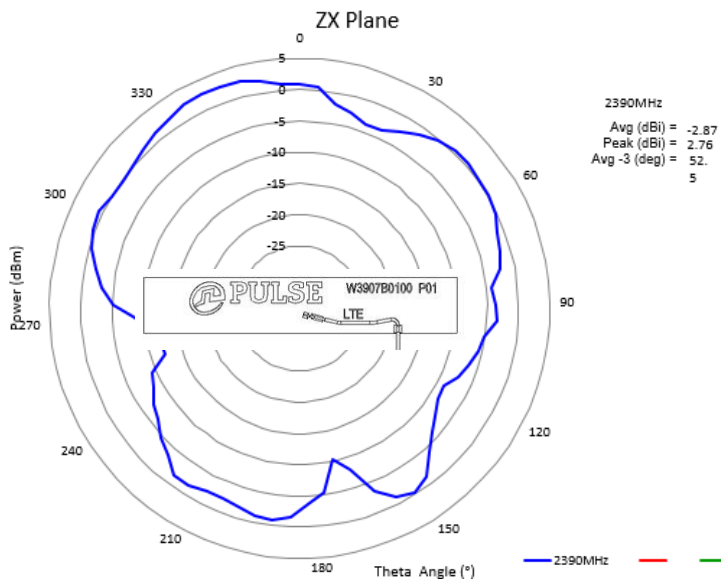
Series: Gemini

PART NUMBER: W3907XXXX

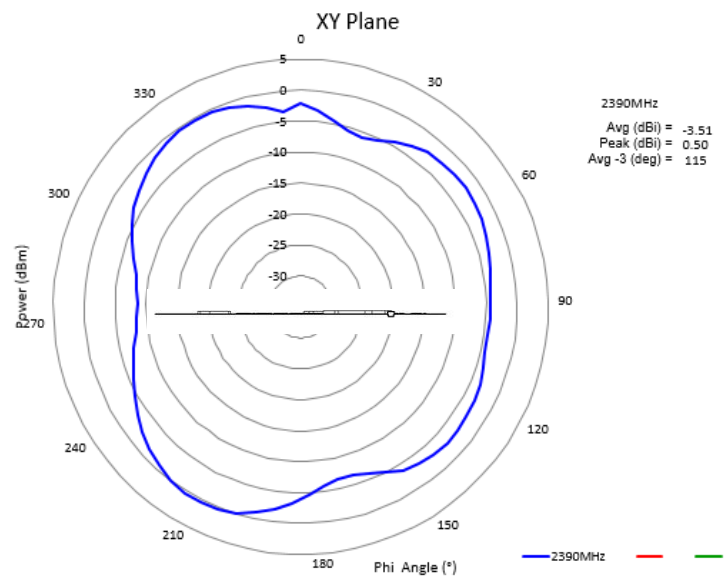
## CHARTS

Typical free space radiation pattern  
2300-2700MHz  
(2390MHz)

### Elevation Plane



### Horizontal Plane



**Note: Antenna tested on 2mm thickness PC plate with 100mm feed cable**

Issue: 1907

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.

Description: LTE 698-3600MHz FPC Antenna

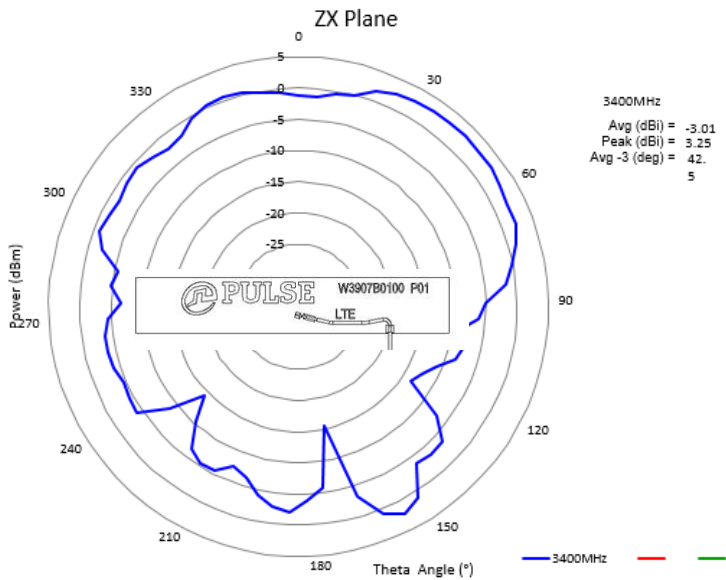
Series: Gemini

PART NUMBER: W3907XXXX

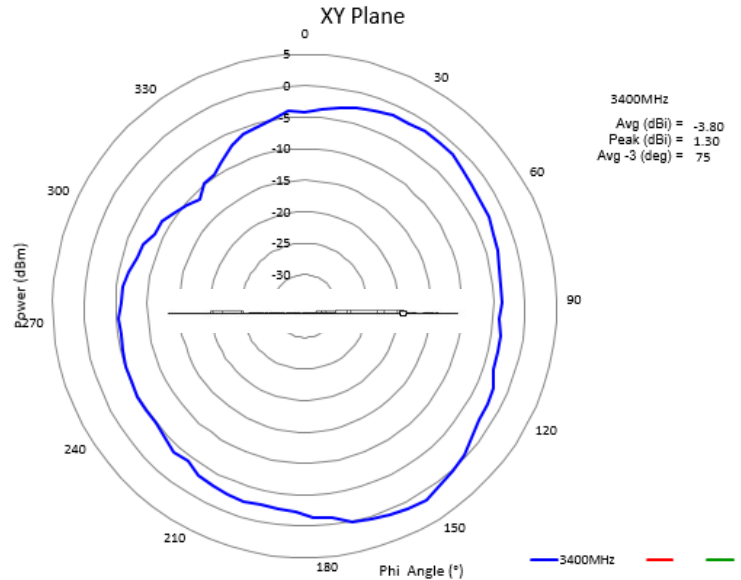
## CHARTS

Typical free space radiation pattern  
3400-3600MHz  
(3400MHz)

### Elevation Plane



### Horizontal Plane



**Note: Antenna tested on 2mm thickness PC plate with 100mm feed cable**

Issue: 1907

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.

**Description:** LTE 698-3600MHz FPC Antenna

**Series:** Gemini

**PART NUMBER:** W3907XXXX

## PACKAGING

10pcs antenna per PE bag

10pcs PE bags per form bag

12pcs form bag per package box

Total 1200pcs per package box

Package box: 460mm\*235mm\*140mm



## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9