



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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, Telit, Huawei, Gemalto, uBlox, ZTE, and others.
- Security, Video, Graphics
- IoT, SmartGrid, Meters, Remote Monitoring, Sensor Networks

All dimensions are in mm / inches

Issue: 1817

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

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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

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**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%

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**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**

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### MECHANICAL SPECIFICATIONS

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

### ENVIRONMENTAL SPECIFICATIONS

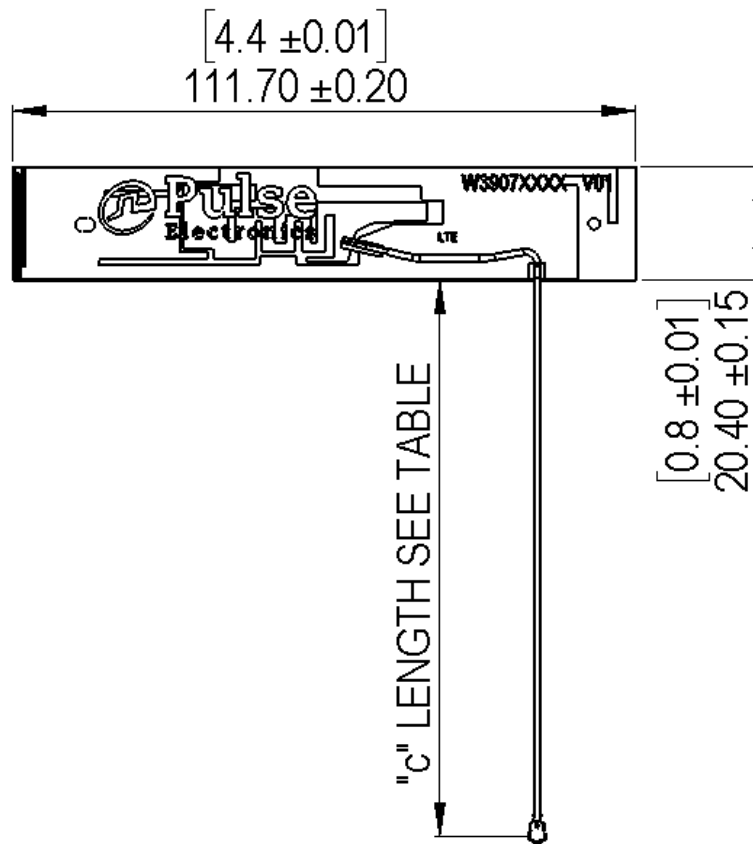
Operating Temperature	-40~+85° C
Storage Temperature	-40~+85° C
RoHS Compliant	Yes

Description: LTE 698-3600MHz FPC Antenna

Series: Gemini

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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

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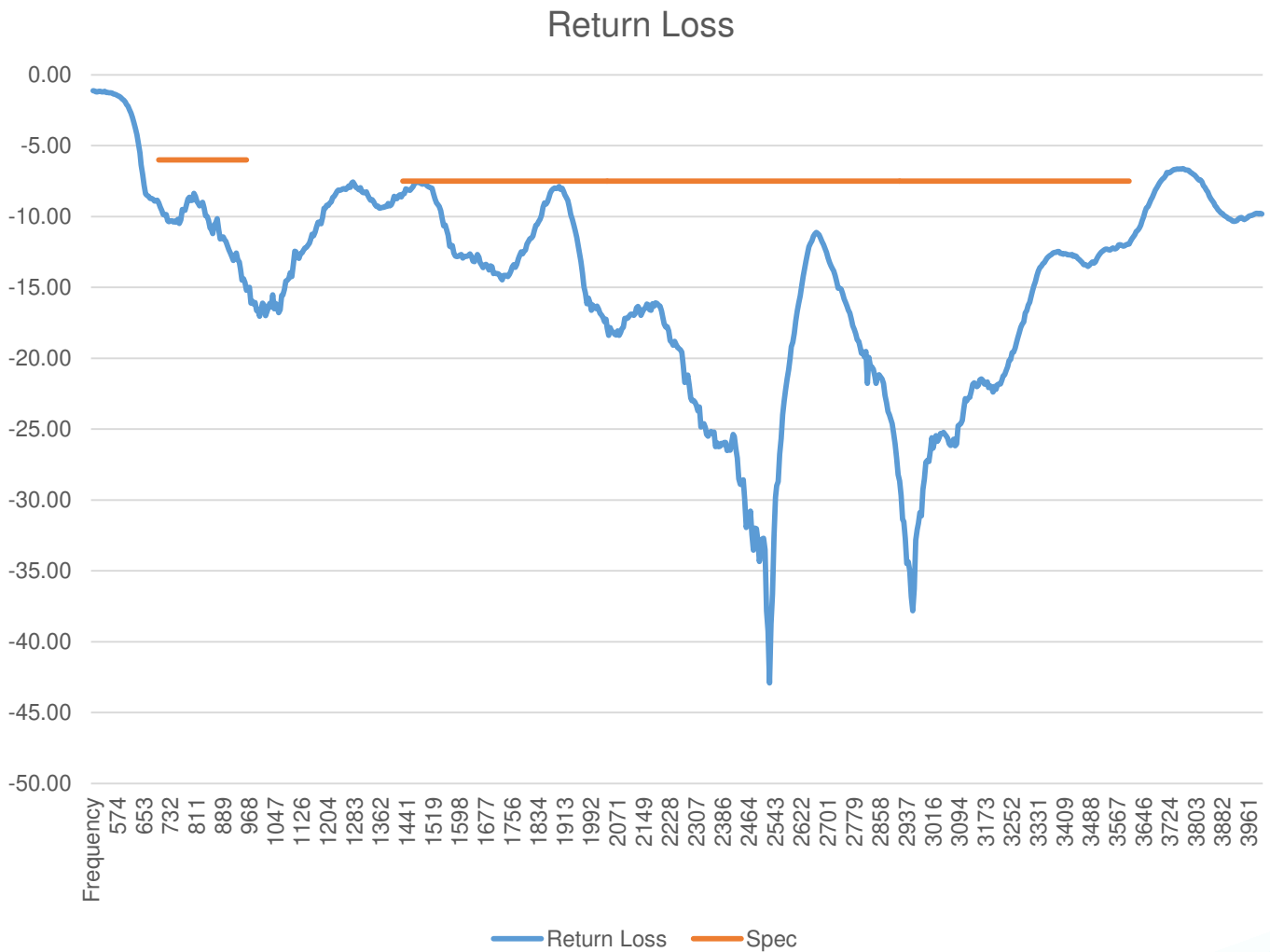
Description: LTE 698-3600MHz FPC Antenna

Series: Gemini

PART NUMBER: W3907XXXX

CHARTS

Return Loss



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

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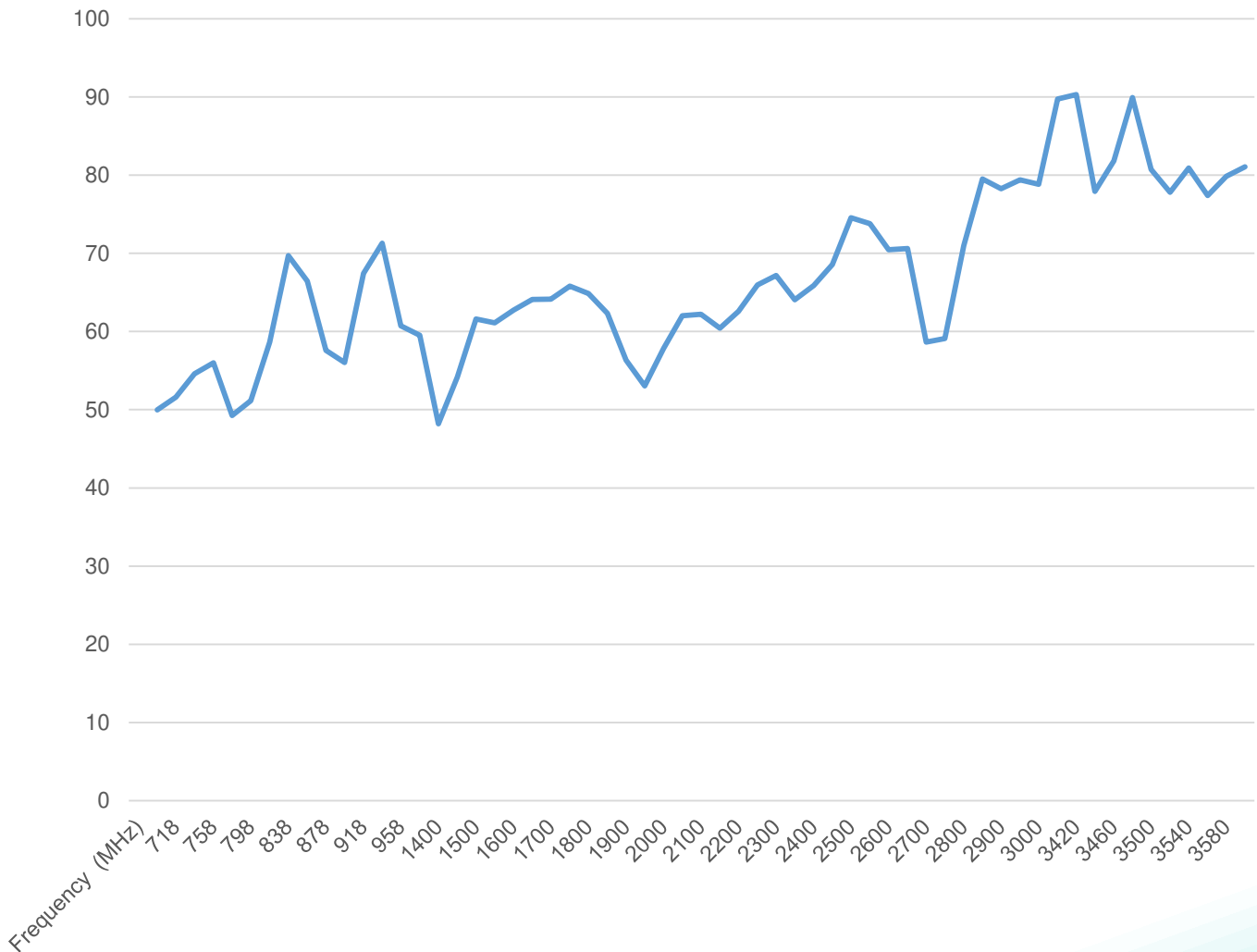
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PART NUMBER: W3907XXXX

CHARTS

Efficiency

Efficiency(%)



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

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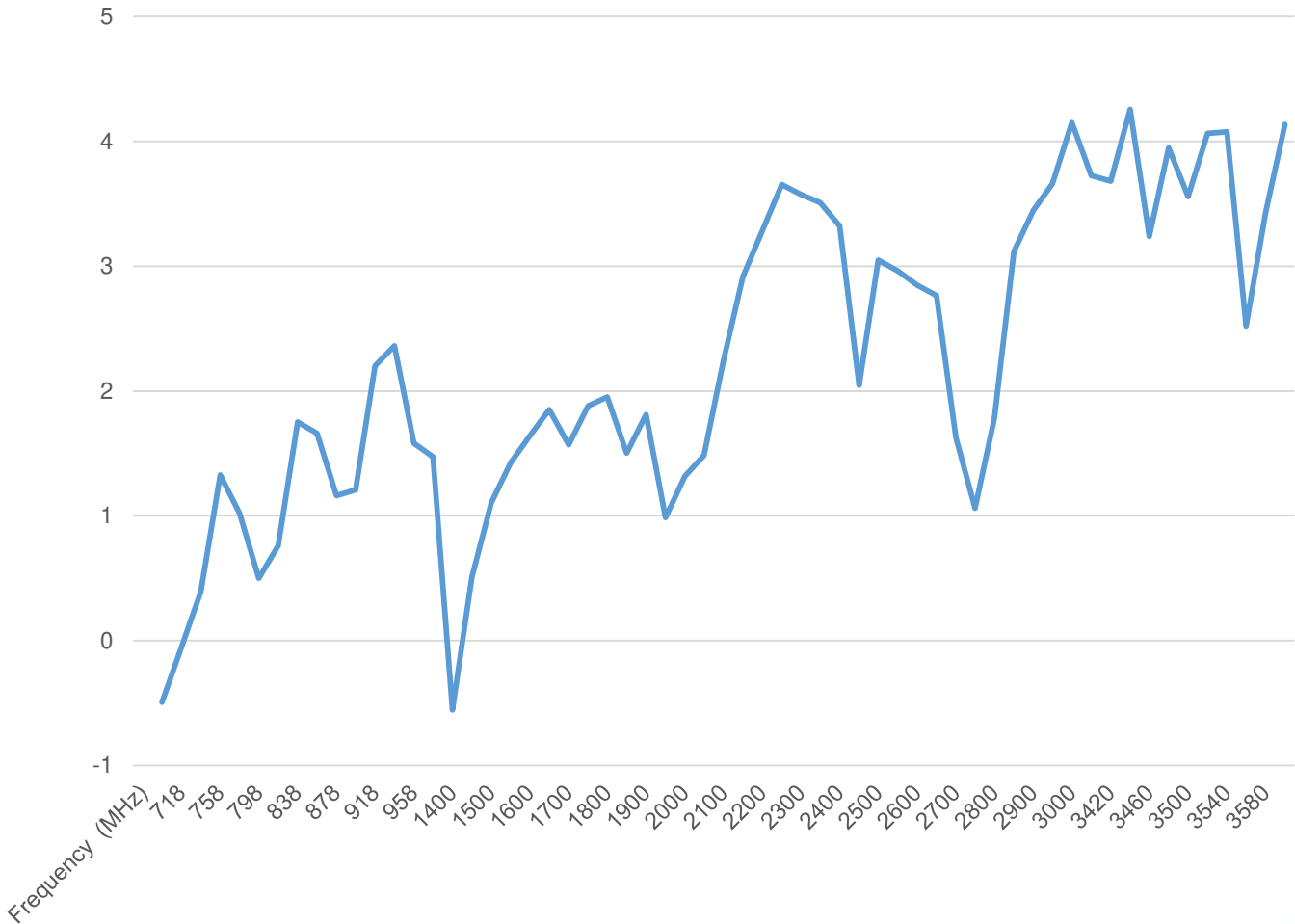
Series: Gemini

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CHARTS

Peak Gain

Peak Gain(dBi)



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

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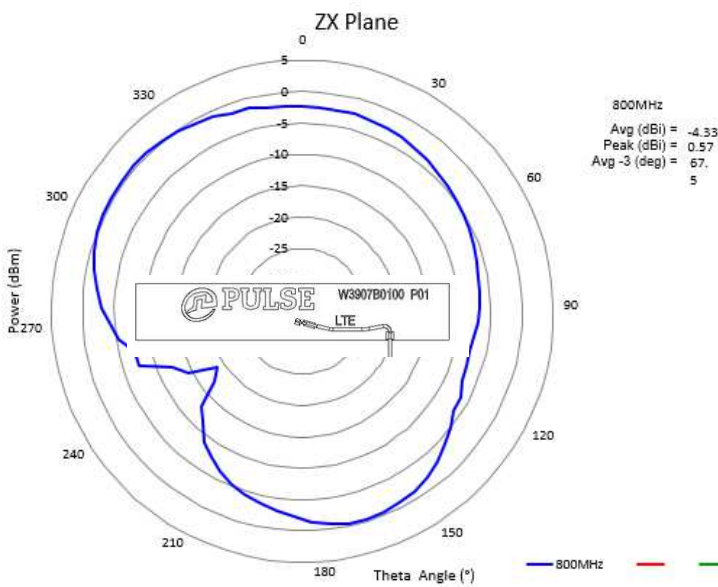
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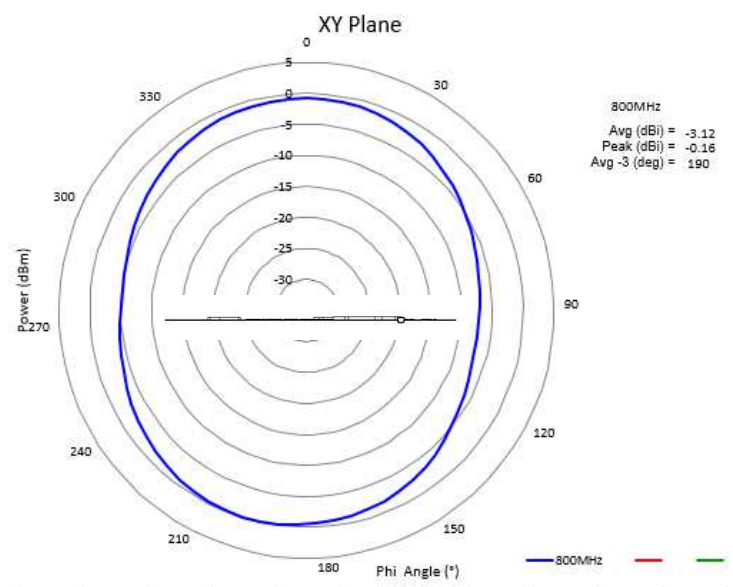
CHARTS

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

Elevation Plane



Horizontal Plane



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

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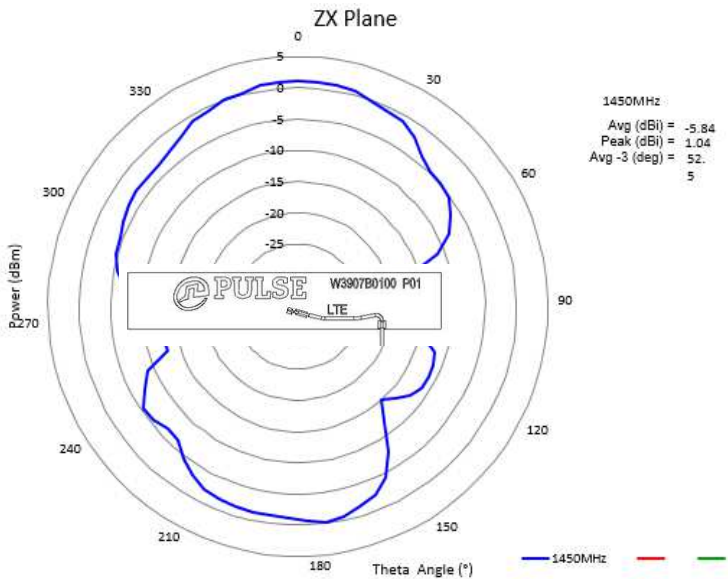
Series: Gemini

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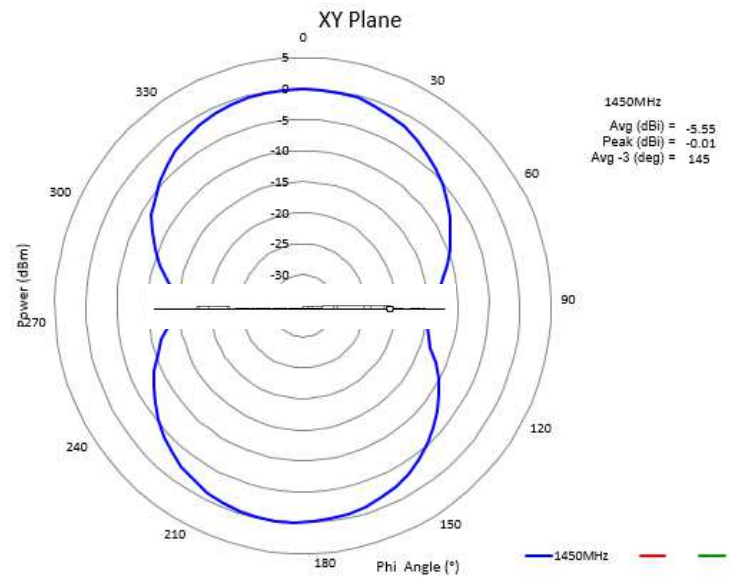
CHARTS

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**

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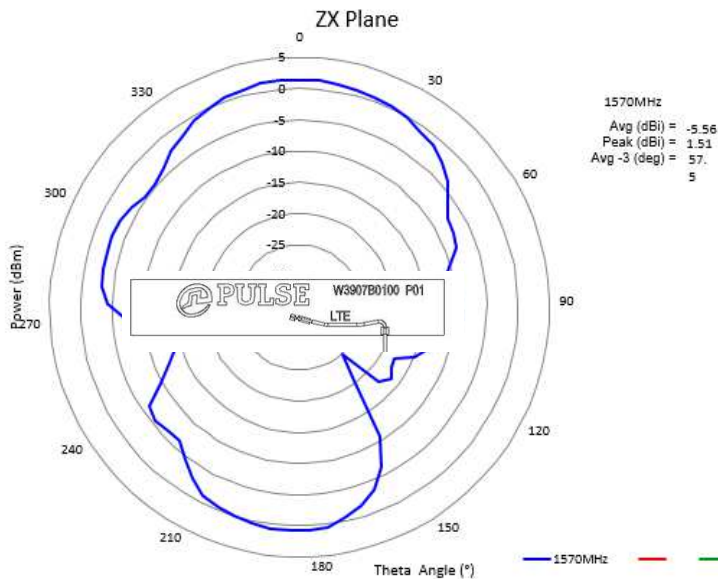
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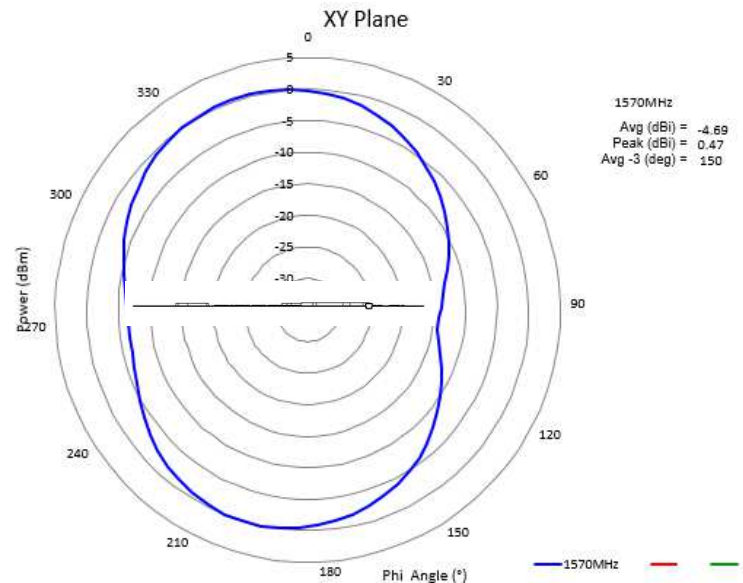
CHARTS

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

Elevation Plane



Horizontal Plane



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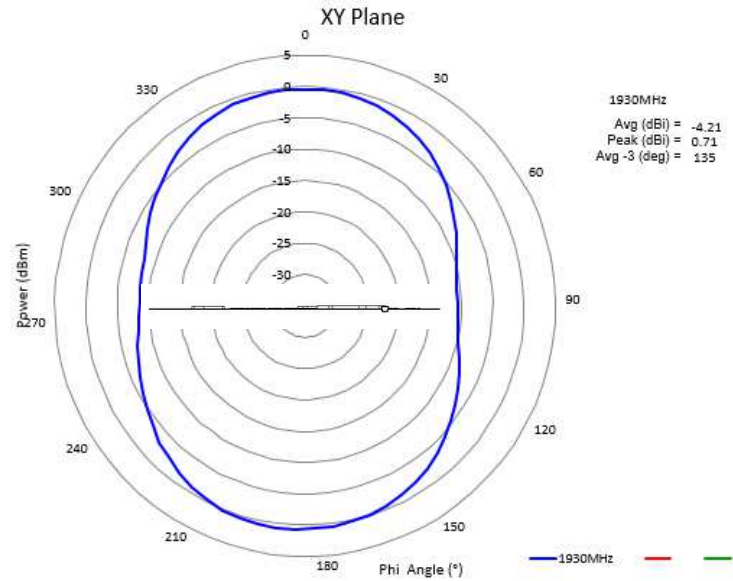
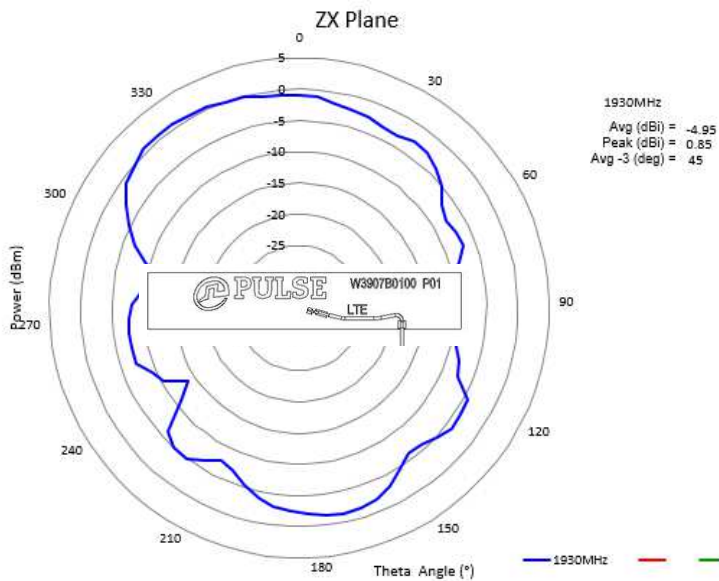
PART NUMBER: W3907XXXX

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**

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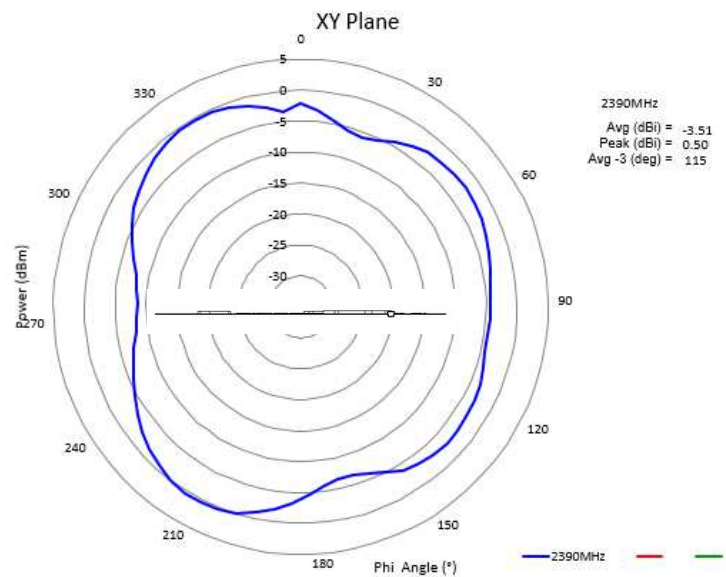
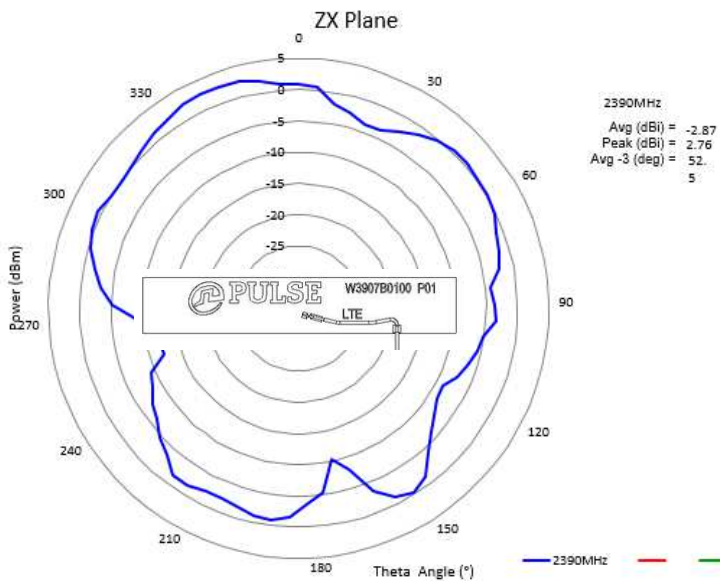
PART NUMBER: W3907XXXX

CHARTS

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

Elevation Plane

Horizontal Plane



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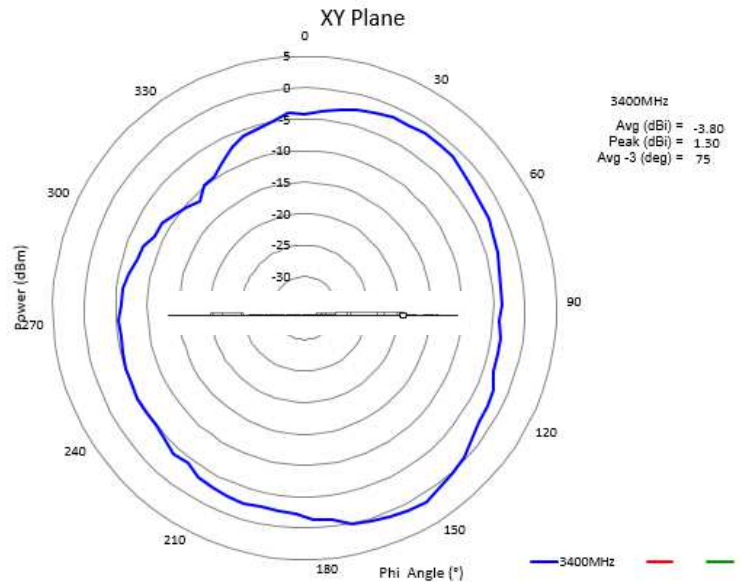
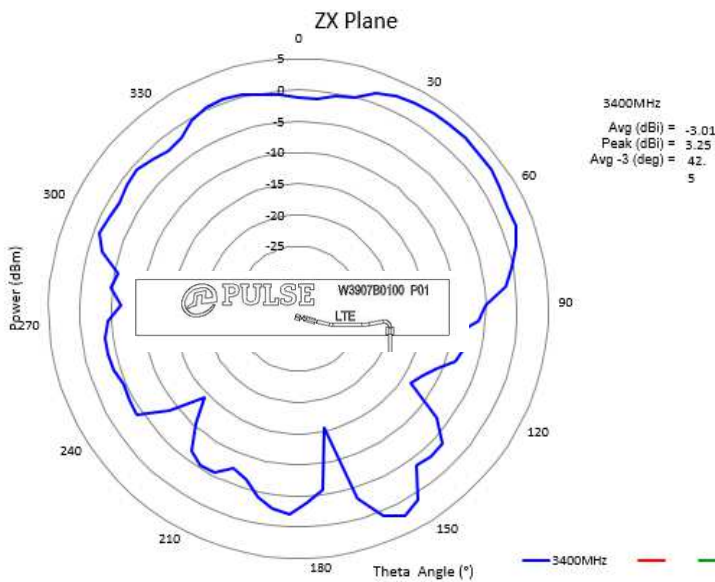
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CHARTS

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

Elevation Plane

Horizontal Plane



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## 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