Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: LTE 698-3600MHz FPC Antenna

Series: Gemini

PART NUMBER: W3907XXXX

All dimensions are in mm / inches

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

Issue: 1907

RoHS COMPLIANT

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 & Do, 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

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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%

Issue: 1907

RoHS COMPLIANT

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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

RoHS COMPLIANT

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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 detaill

ENVIRONMENTAL SPECIFICATIONS

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

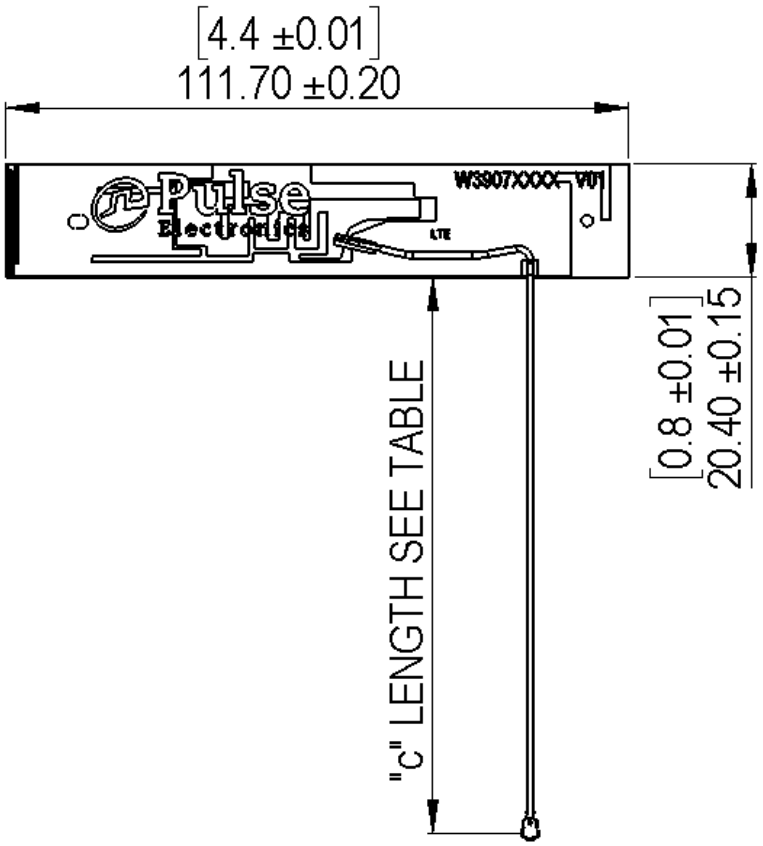
RoHS COMPLIANT

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

RoHS COMPLIANT

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

RoHS COMPLIANT

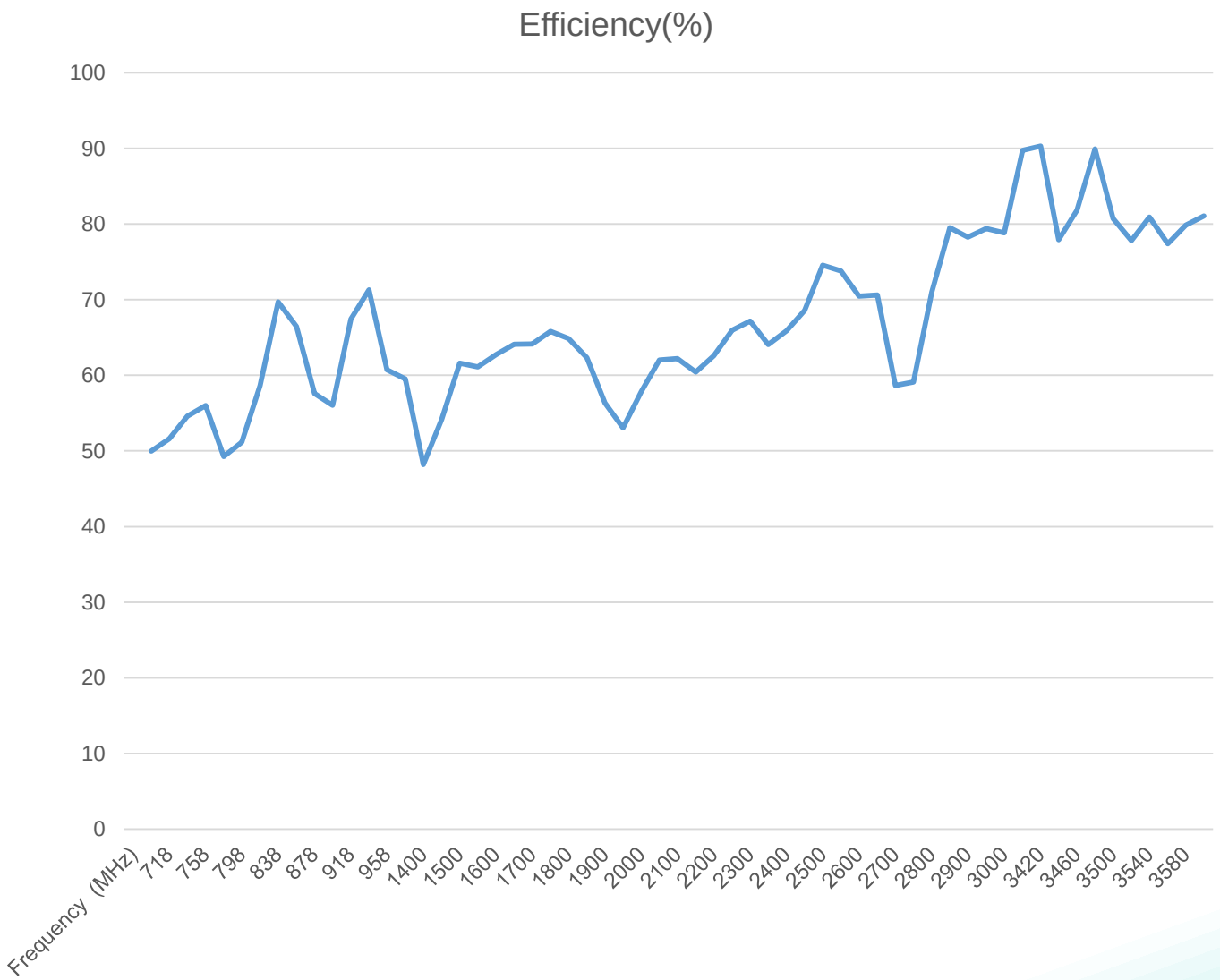
Description: LTE 698-3600MHz FPC Antenna

Series: Gemini

PART NUMBER: W3907XXXX

CHARTS

Efficiency



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

RoHS COMPLIANT

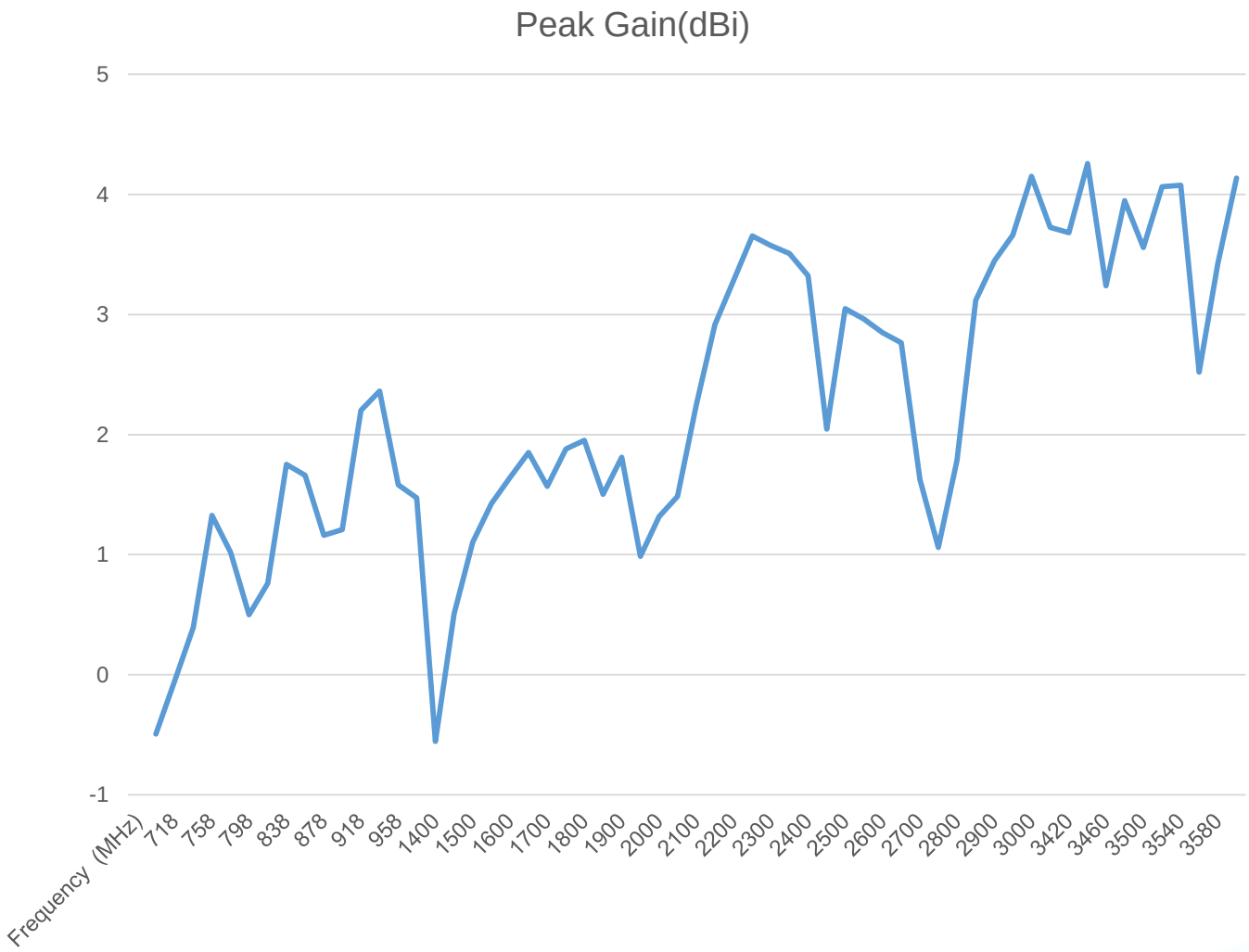
Description: LTE 698-3600MHz FPC Antenna

Series: Gemini

PART NUMBER: W3907XXXX

CHARTS

Peak Gain



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

RoHS COMPLIANT

Description: LTE 698-3600MHz FPC Antenna

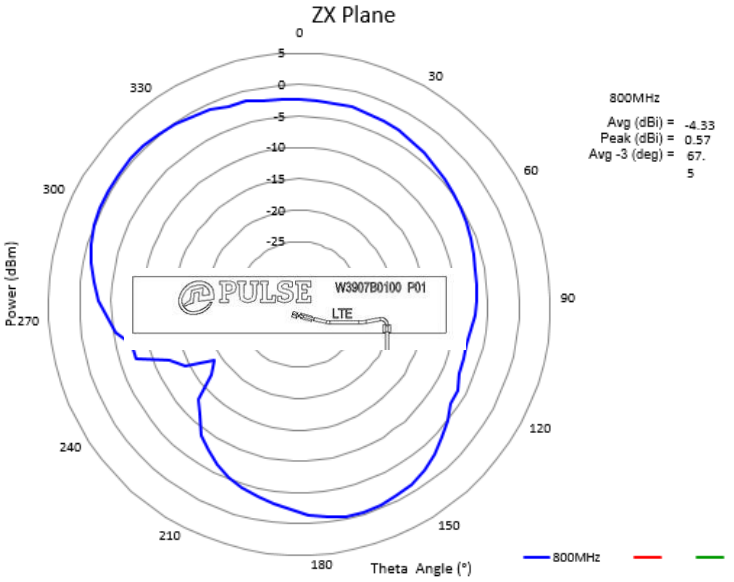
Series: Gemini

PART NUMBER: W3907XXXX

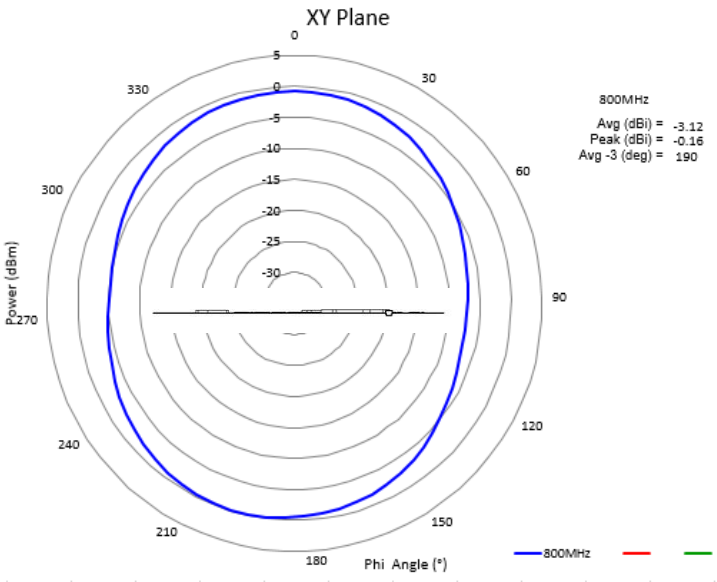
CHARTS

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

Elevation Plane



Horizontal Plane



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

RoHS COMPLIANT

Description: LTE 698-3600MHz FPC Antenna

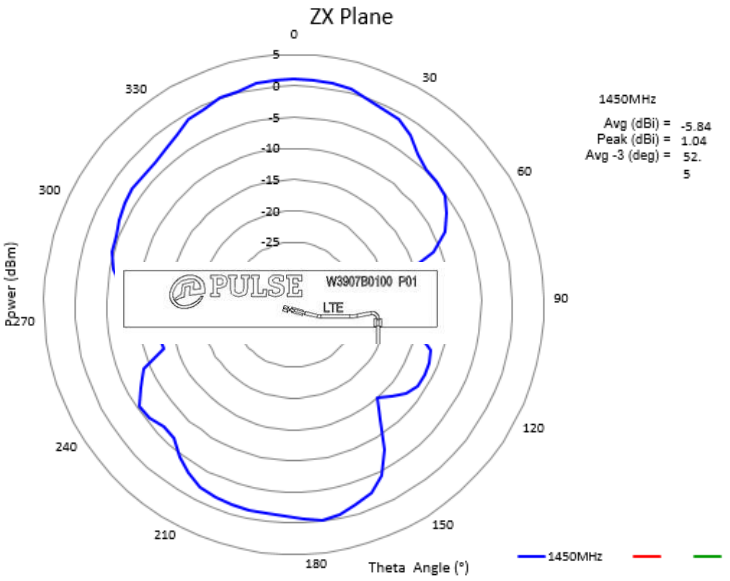
Series: Gemini

PART NUMBER: W3907XXXX

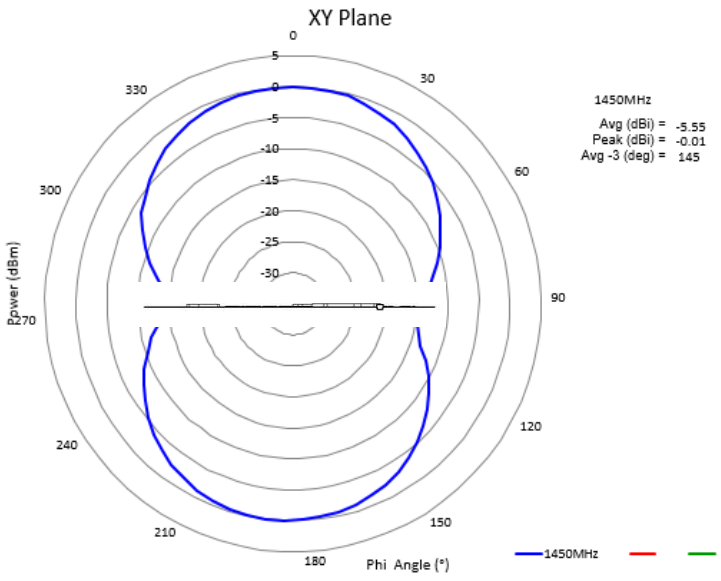
CHARTS

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

RoHS COMPLIANT

Description: LTE 698-3600MHz FPC Antenna

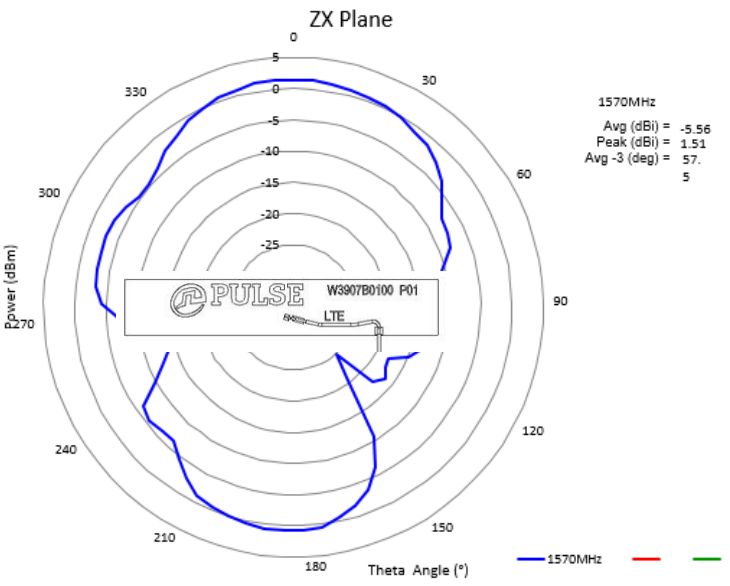
Series: Gemini

PART NUMBER: W3907XXXX

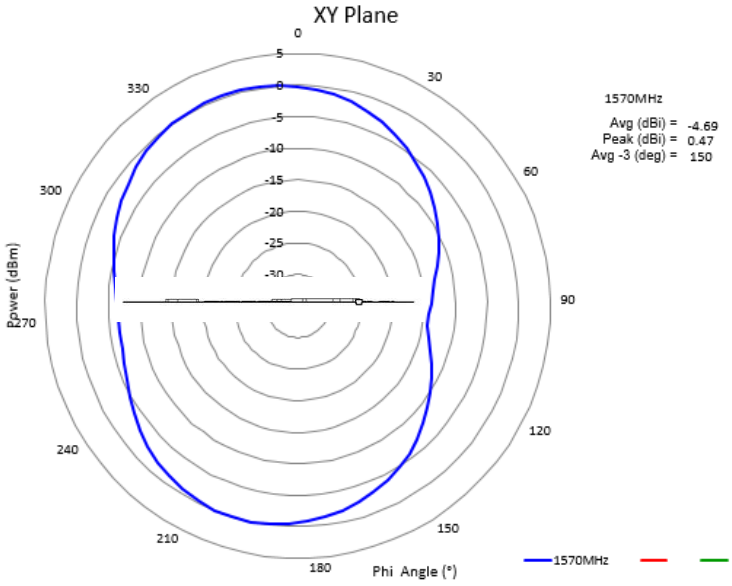
CHARTS

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

Elevation Plane



Horizontal Plane



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

RoHS COMPLIANT

Description: LTE 698-3600MHz FPC Antenna

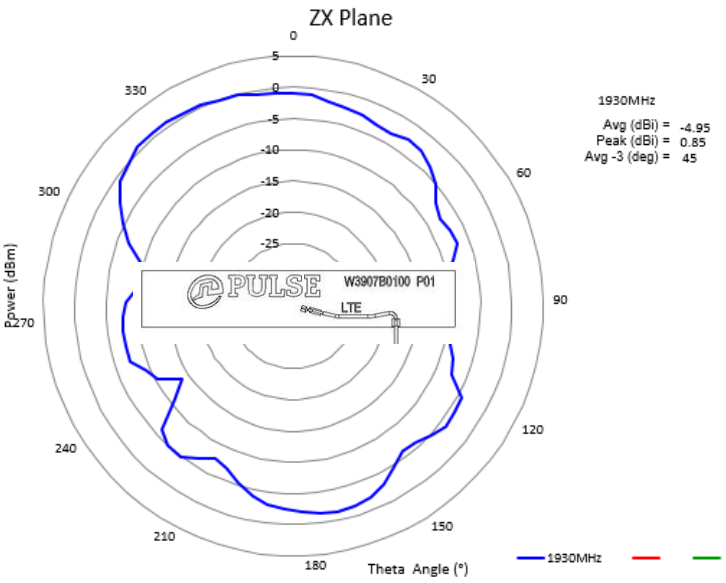
Series: Gemini

PART NUMBER: W3907XXXX

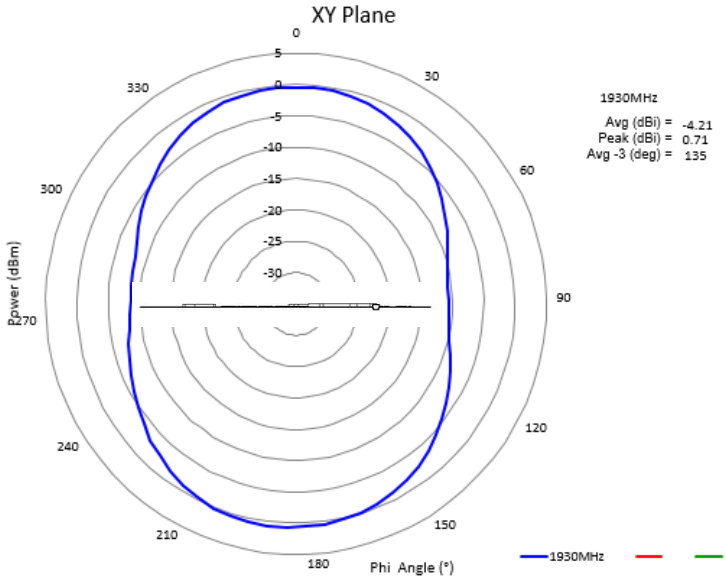
CHARTS

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

Elevation Plane



Horizontal Plane



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

RoHS COMPLIANT

Description: LTE 698-3600MHz FPC Antenna

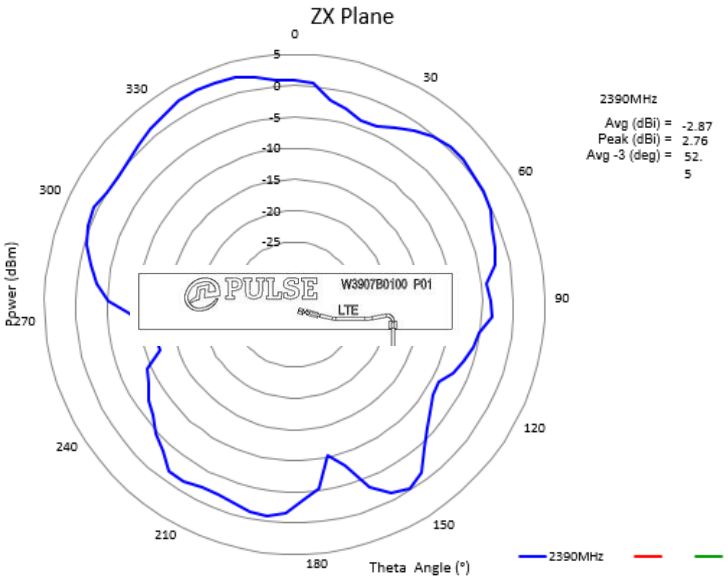
Series: Gemini

PART NUMBER: W3907XXXX

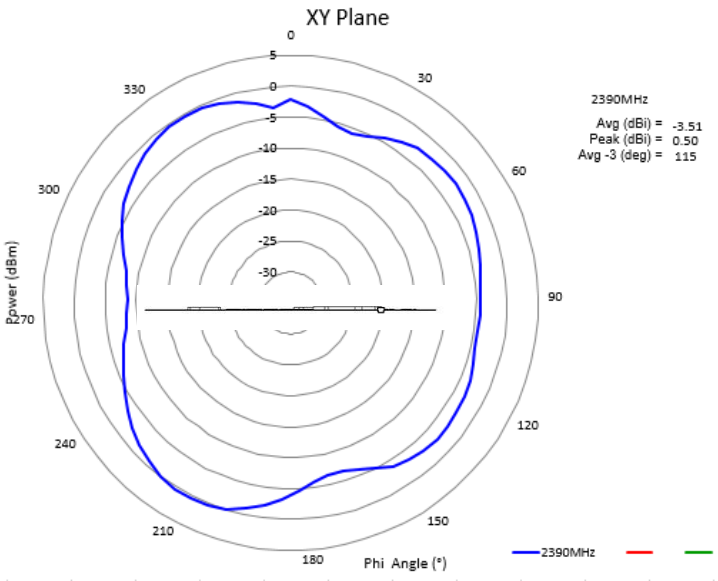
CHARTS

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

Elevation Plane



Horizontal Plane



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

RoHS COMPLIANT

Description: LTE 698-3600MHz FPC Antenna

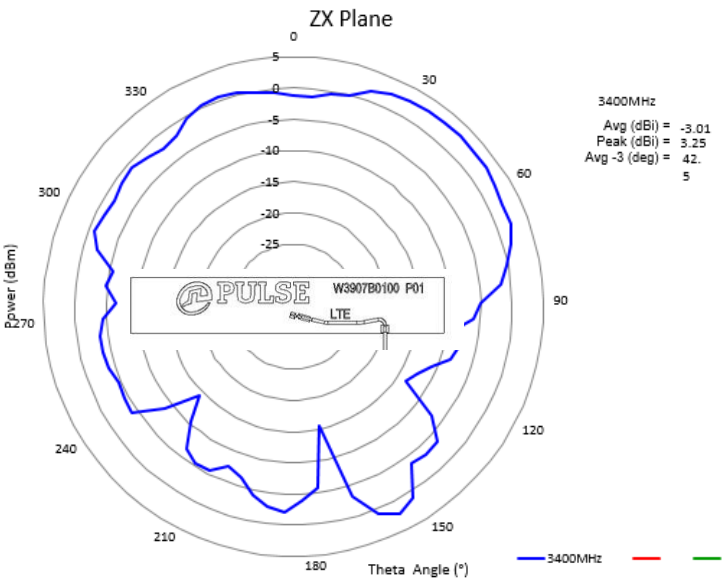
Series: Gemini

PART NUMBER: W3907XXXX

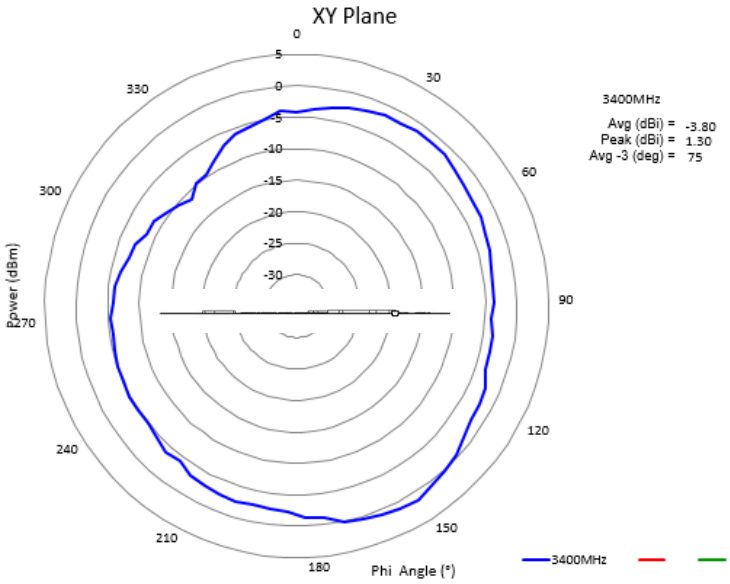
CHARTS

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

Elevation Plane



Horizontal Plane



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

RoHS COMPLIANT

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

RoHS COMPLIANT

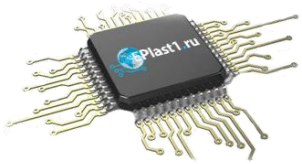
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Электронная почта: org@eplast1.ru
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