

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

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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% |

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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

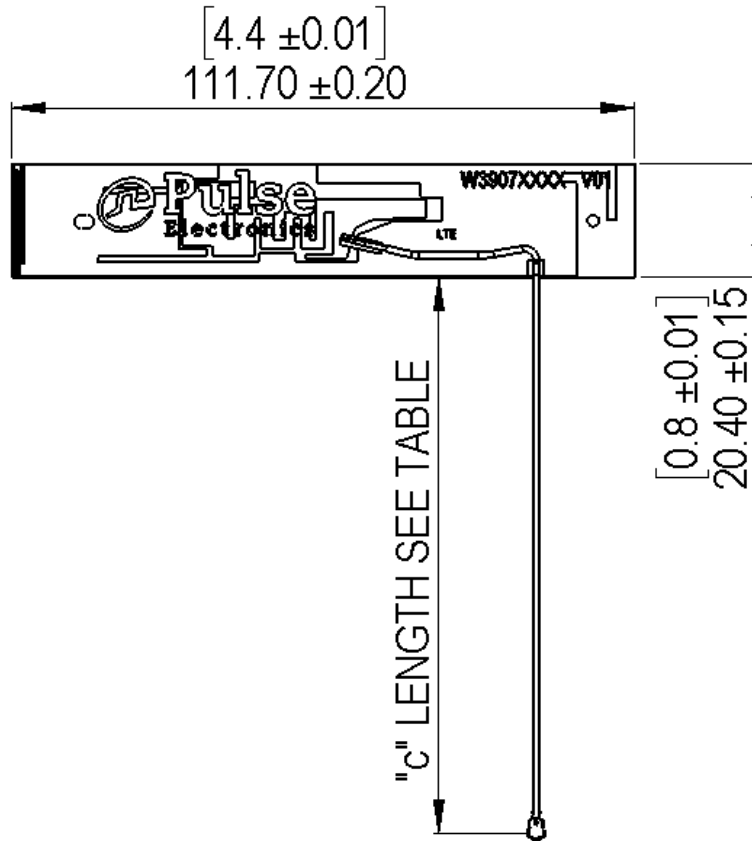
| | |
|-----------------------|------------|
| Operating Temperature | -40~+85° C |
| Storage Temperature | -40~+85° C |
| RoHS Compliant | Yes |

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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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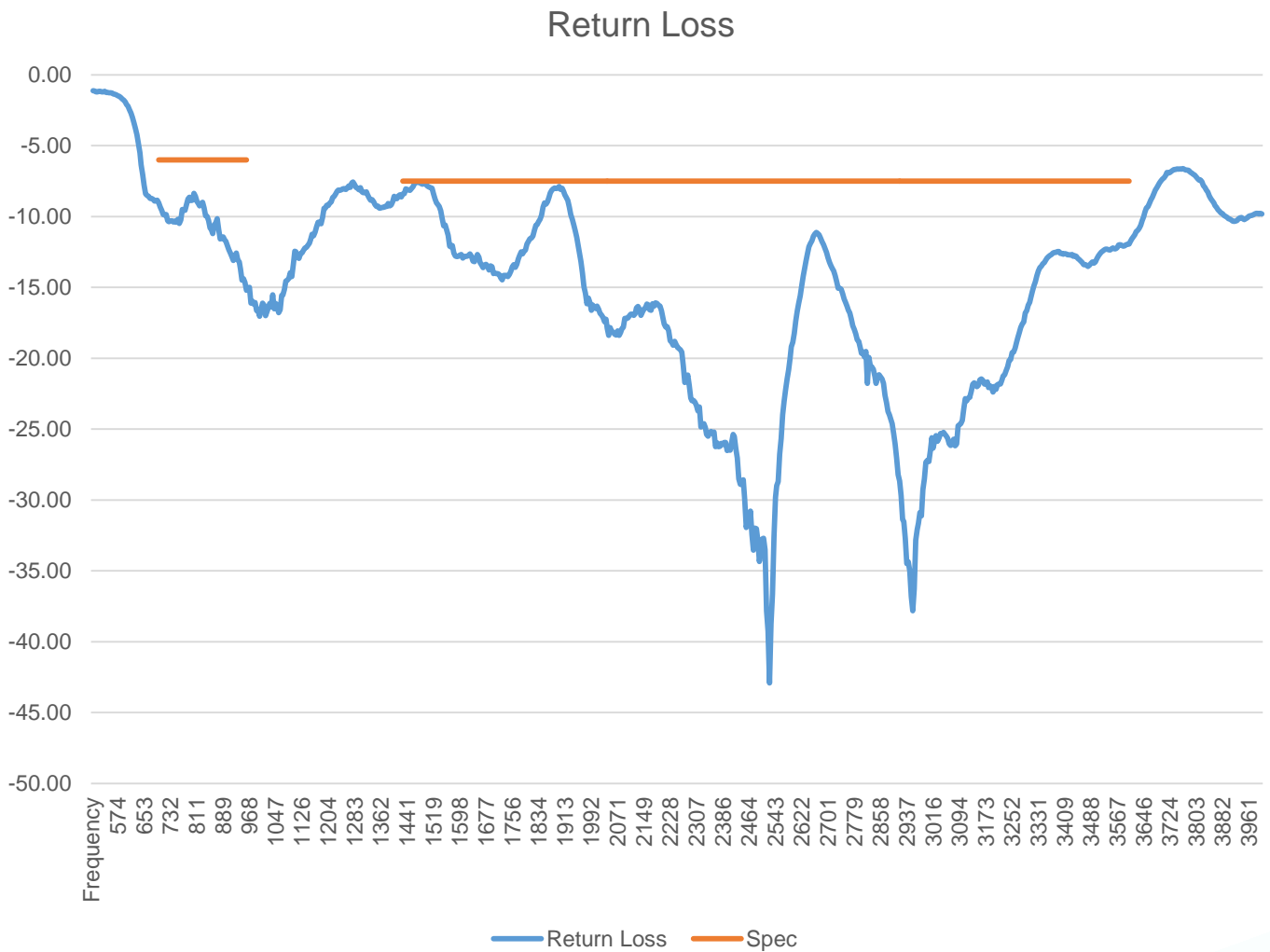
Description: LTE 698-3600MHz FPC Antenna

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PART NUMBER: W3907XXXX

CHARTS

Return Loss



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

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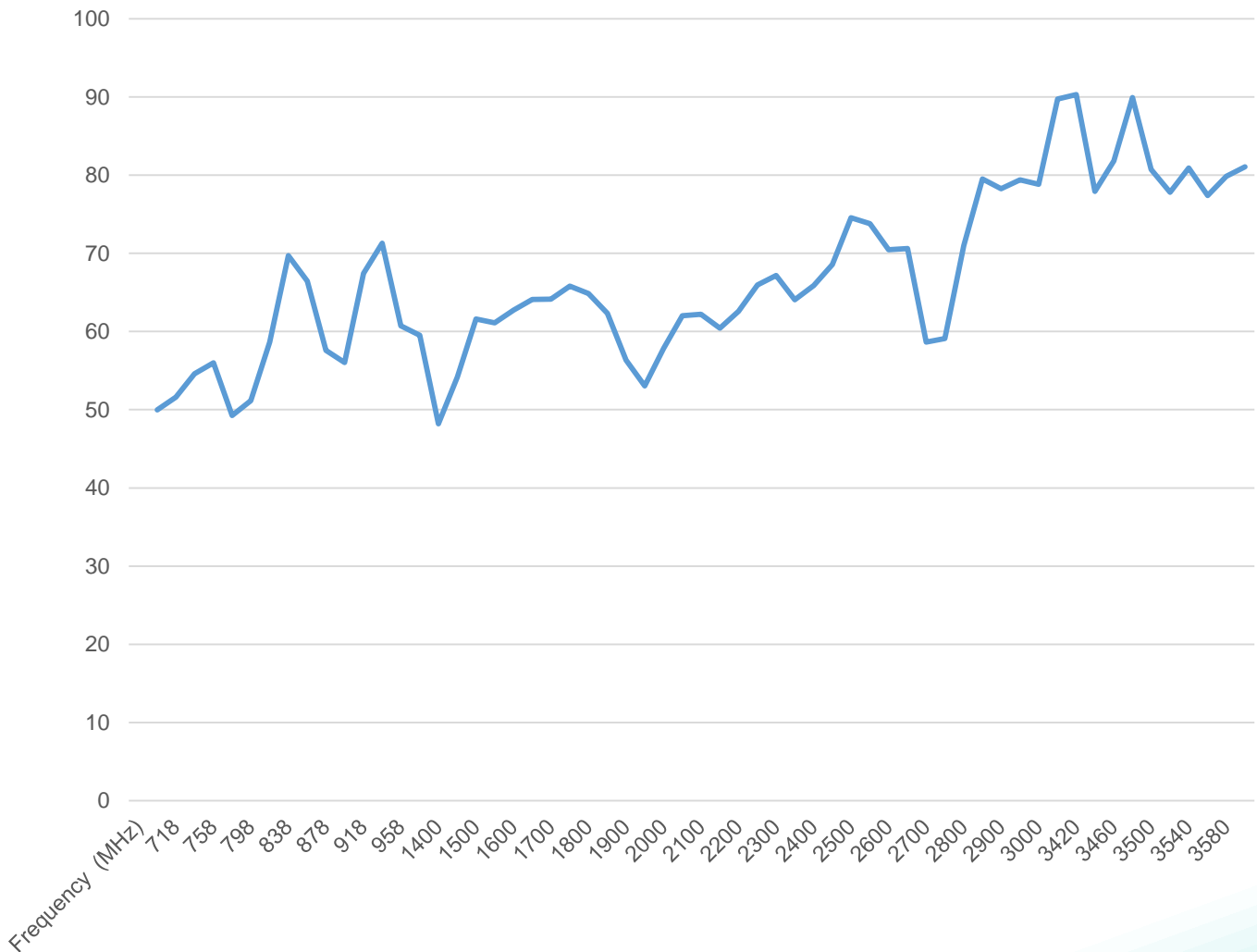
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PART NUMBER: W3907XXXX

CHARTS

Efficiency

Efficiency(%)



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

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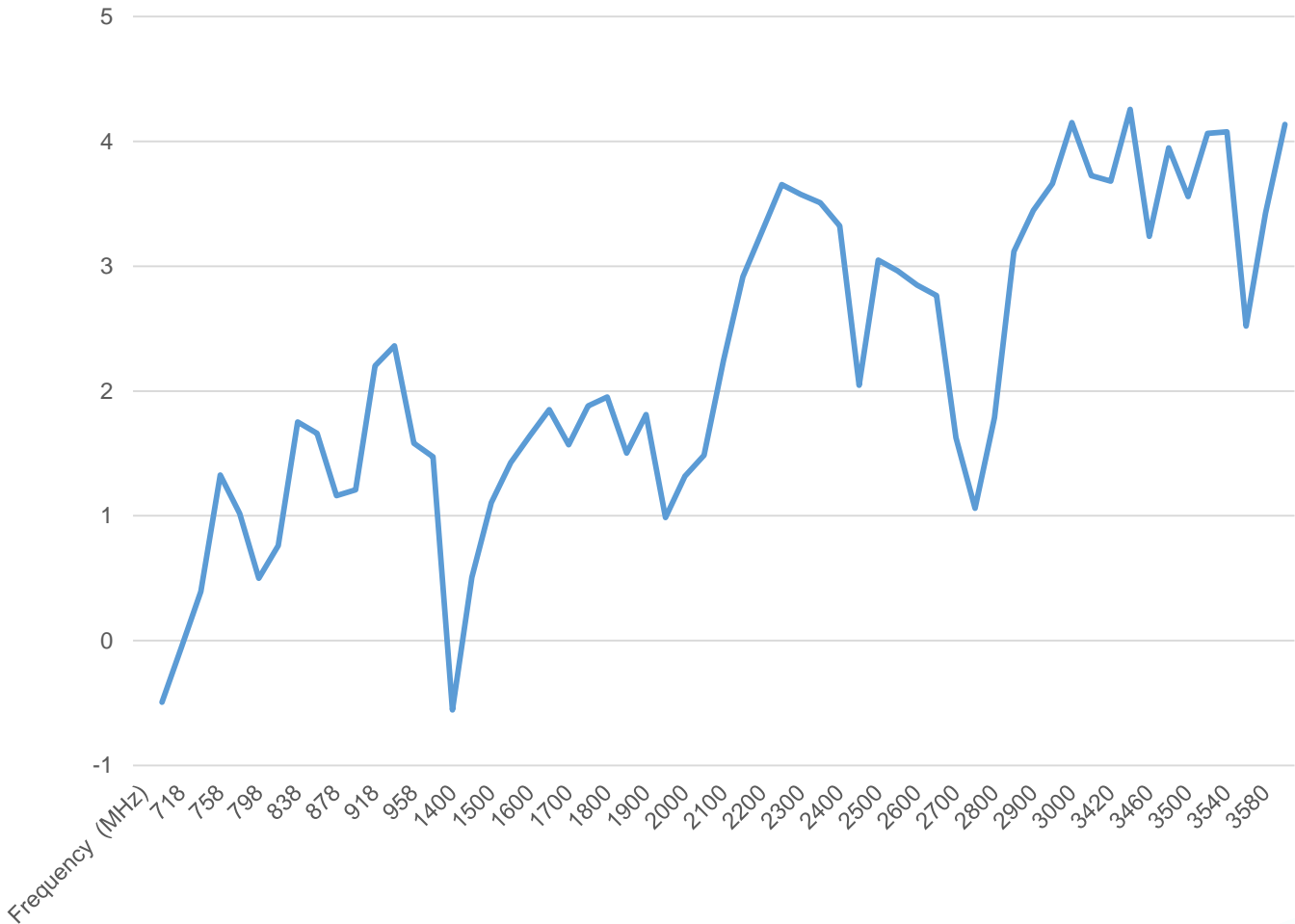
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CHARTS

Peak Gain

Peak Gain(dBi)



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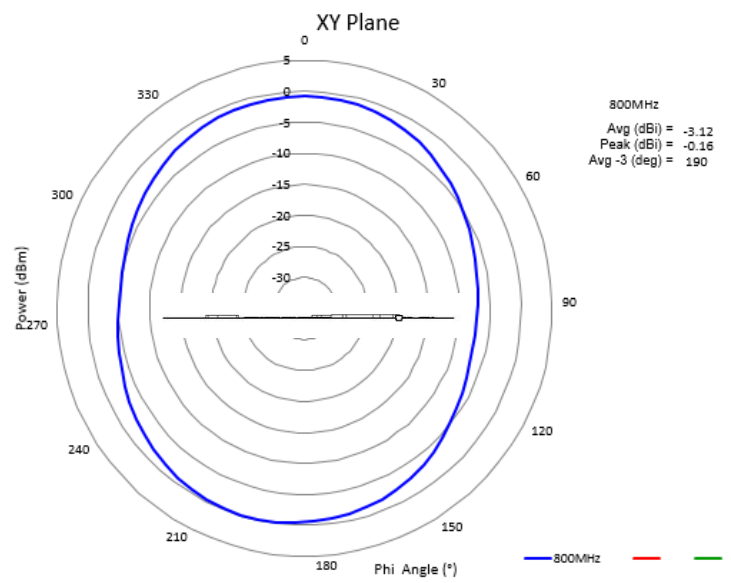
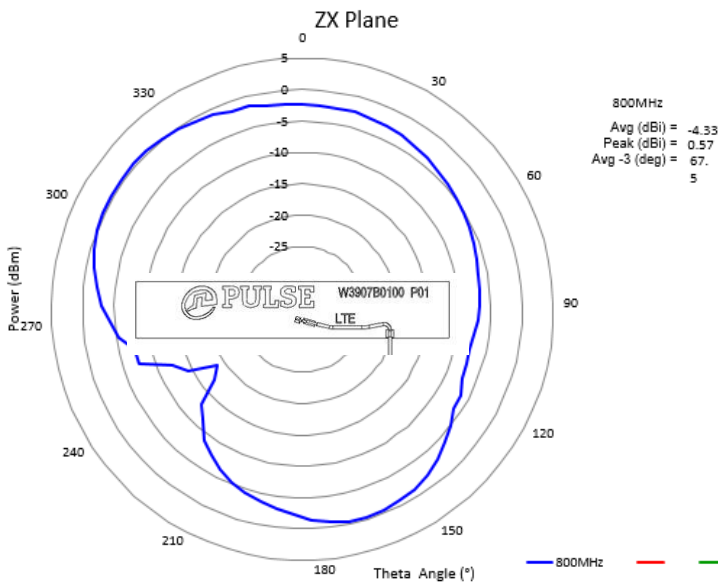
PART NUMBER: W3907XXXX

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

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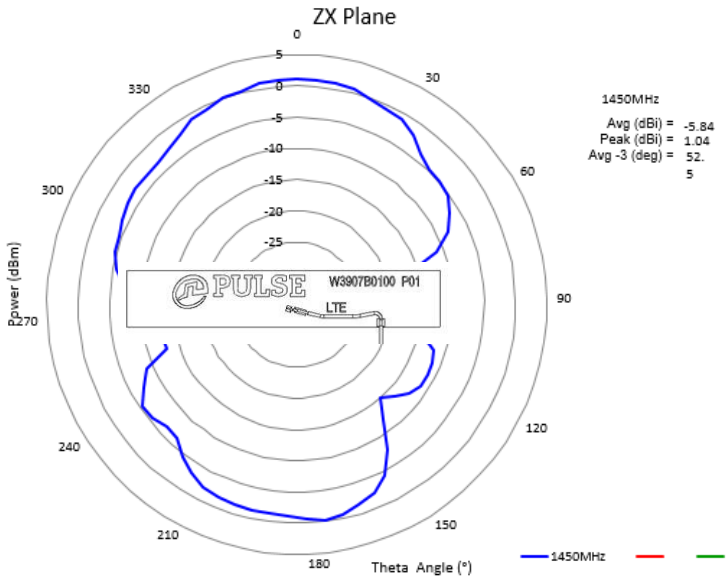
Series: Gemini

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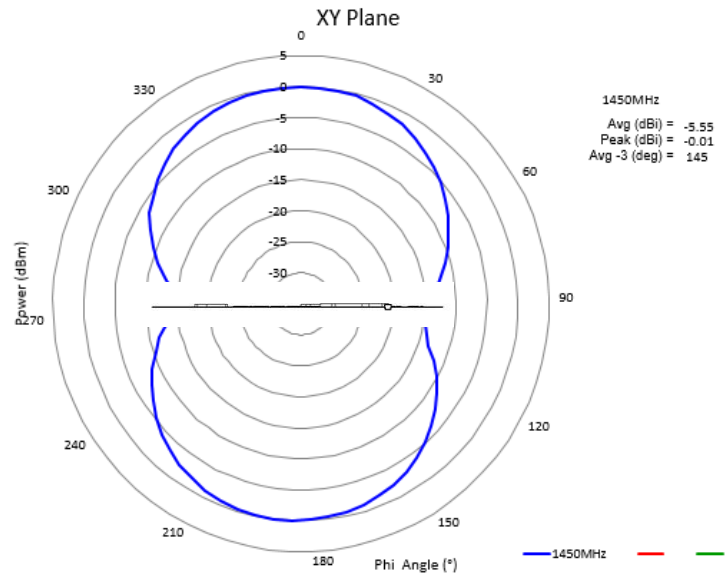
CHARTS

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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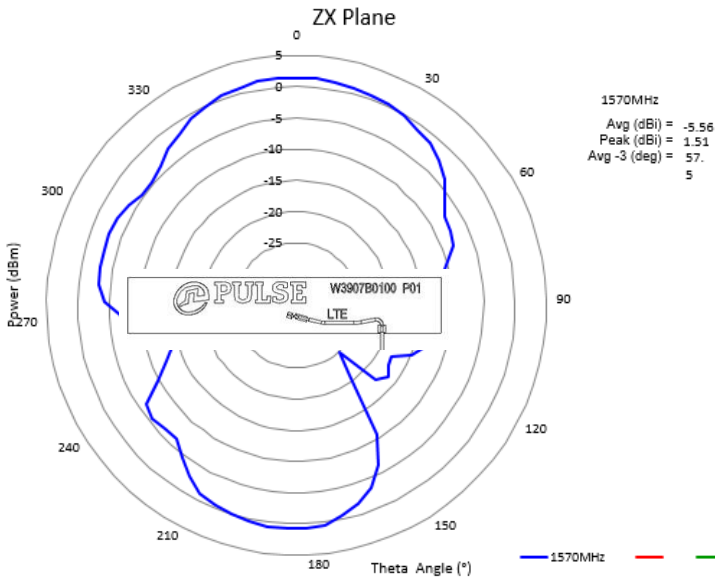
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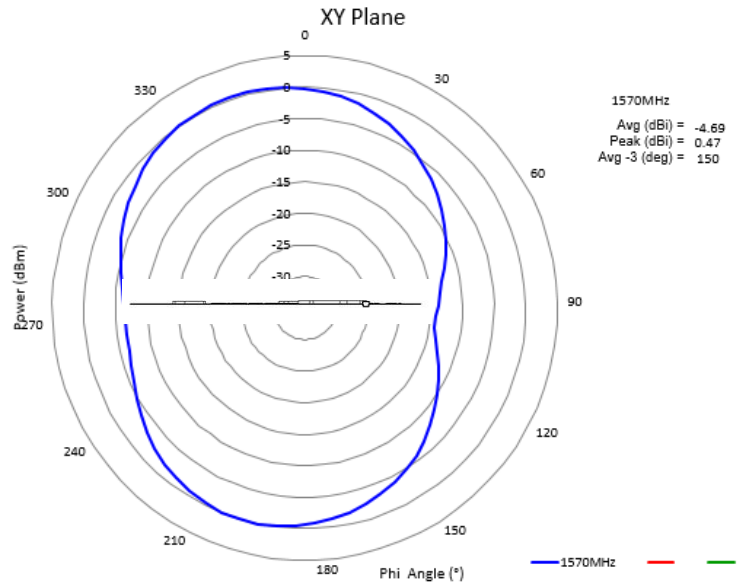
CHARTS

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

Elevation Plane



Horizontal Plane



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

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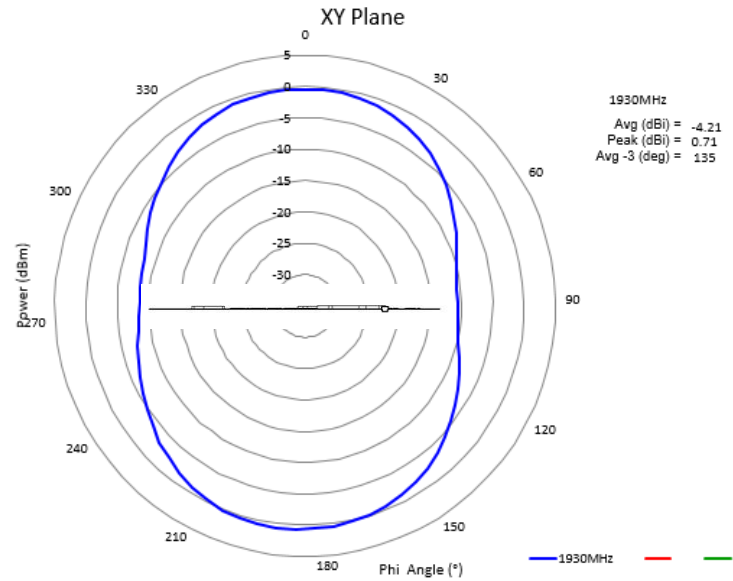
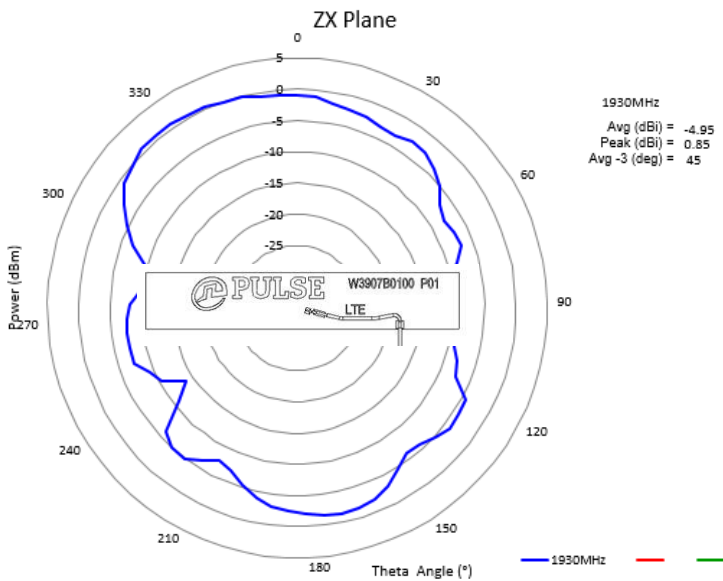
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CHARTS

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

Elevation Plane

Horizontal Plane



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

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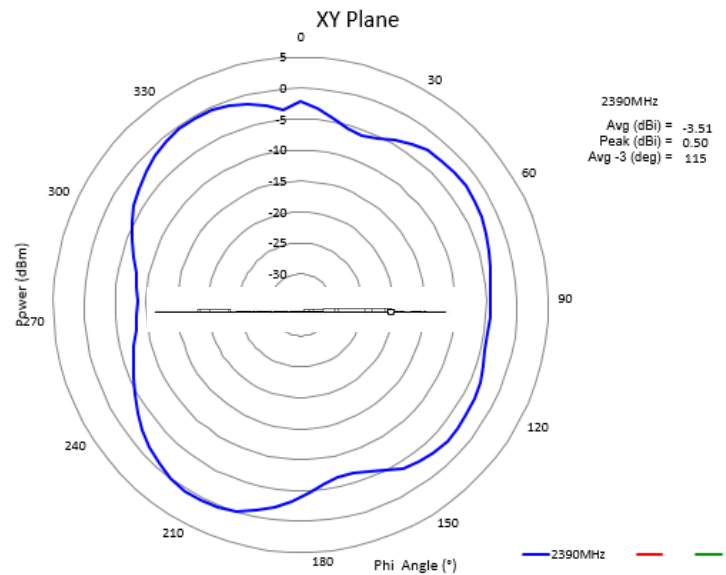
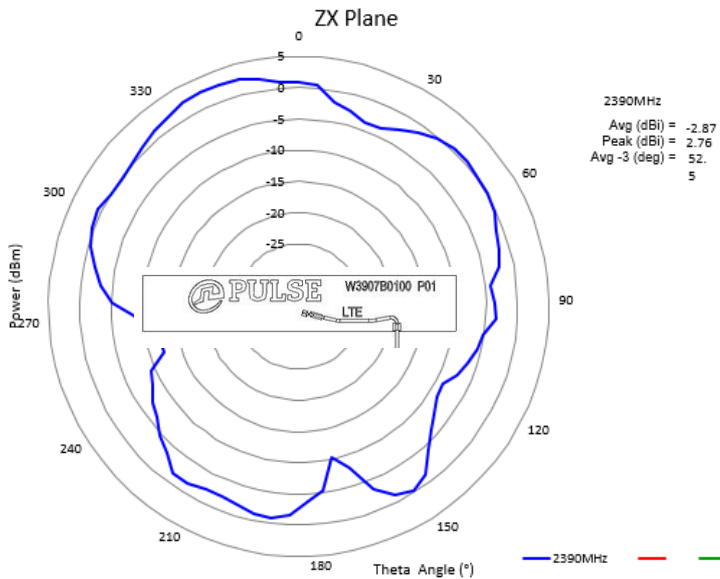
PART NUMBER: W3907XXXX

CHARTS

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

Elevation Plane

Horizontal Plane



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

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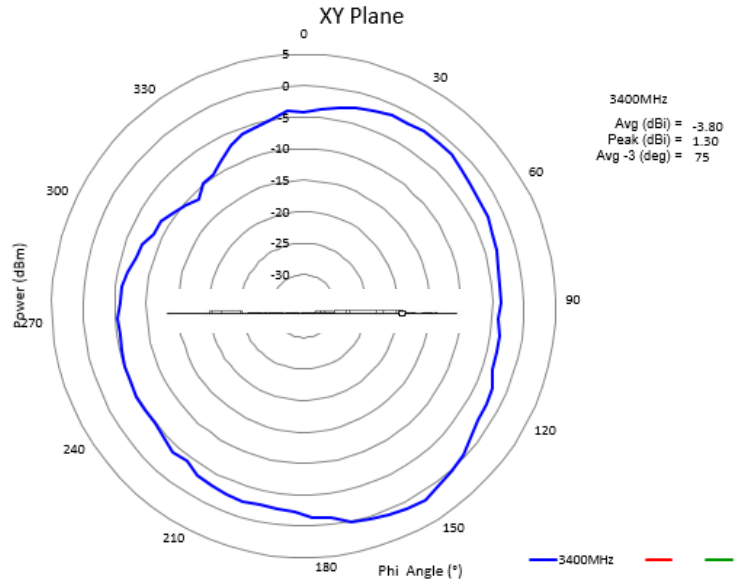
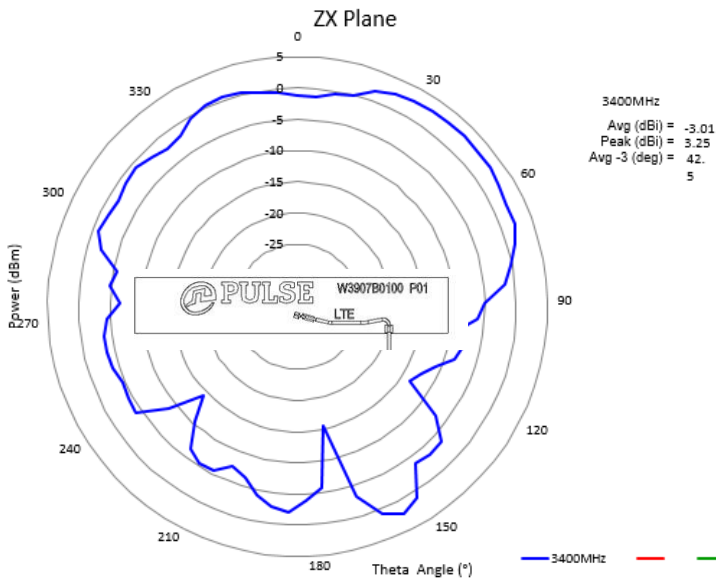
PART NUMBER: W3907XXXX

CHARTS

Typical free space radiation pattern
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



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);
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- 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.);

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- 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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Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

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