



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.

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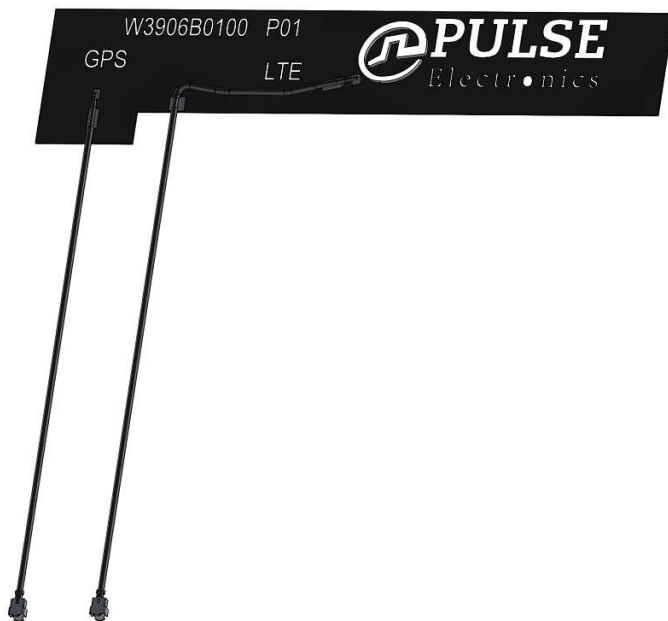
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100



Features:

- 2G / 3G / 4G Primary Ant for MiMo
- 698-3600MHz
- Used as pair for W3907B0100
- Global LTE Bands:
 - B1-B23, B25-B29, B33-B42
 - N.A.; Europe, Asia (incl. Jap.)
- GNSS (GPS, Galileo, Glonass)
- 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
- Transportation, Tracking

All dimensions are in mm / inches

Issue: 1722

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For more information:

Pulse Worldwide Headquarters
15255 Innovation Drive #100
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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



Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

ELECTRICAL SPECIFICATIONS

LTE :

| | |
|---|---|
| Frequency | 698-960/1427.9-1510.9/1559-1610/ 1695-2200/2300-2700/3400-3600 MHz |
| Nominal Impedance | 50Ω |
| Return loss(698-960MHz) | -6dB |
| Return loss(1427.9-1510.9/1559-1610/ 1695-2200/2300-2700/3400-3600MHz) | -7.5dB |
| Isolation | -10dB |
| Average Total Efficiency (698-960MHz) | 54% |
| Average Total Efficiency (1427.9-1510.9MHz) | 59% |
| Average Total Efficiency (1559-1610MHz) | 59% |
| Average Total Efficiency (1695-2200MHz) | 64% |
| Average Total Efficiency (2300-2700MHz) | 69% |
| Average Total Efficiency (3400-3600MHz) | 64% |

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Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

ELECTRICAL SPECIFICATIONS

| | |
|---|--------------|
| Peak Gain (698-960MHz) | 2.7dBi |
| Peak Gain (1427.9-1510.9MHz) | 1.5dBi |
| Peak Gain (1559-1610MHz) | 1.6dBi |
| Peak Gain (1695-2200MHz) | 3.2dBi |
| Peak Gain (2300-2700MHz) | 3.6dBi |
| Peak Gain (3400-3600MHz) | 4.0dBi |
| GNSS : | |
| Frequency | 1570-1610MHz |
| Nominal Impedance | 50Ω |
| Return loss (1570-1610MHz) | -10dB |
| Average Total Efficiency (1570-1610MHz) | 35% |
| Peak Gain (1570-1610MHz) | 0.8dBi |
| Radiation Pattern | Omni |
| Polarization | Linear |
| Power withstanding | 3W |

(*) All RF parameters measured on 2mm thick PC plate

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Description: LTE Primary + GNSS FPC Antenna**Series:** Gemini**PART NUMBER:** W3906B0100**MECHANICAL SPECIFICATIONS**

| | |
|--------------------------|---------------|
| Overall Length | mm |
| Weight | 2.0g |
| Antenna Color / Material | BLACK FPC |
| Cable type | AWG#32 1.13MM |
| Cable length (LTE) | 139mm |
| Cable length (GPS) | 105MM |

ENVIRONMENTAL SPECIFICATIONS

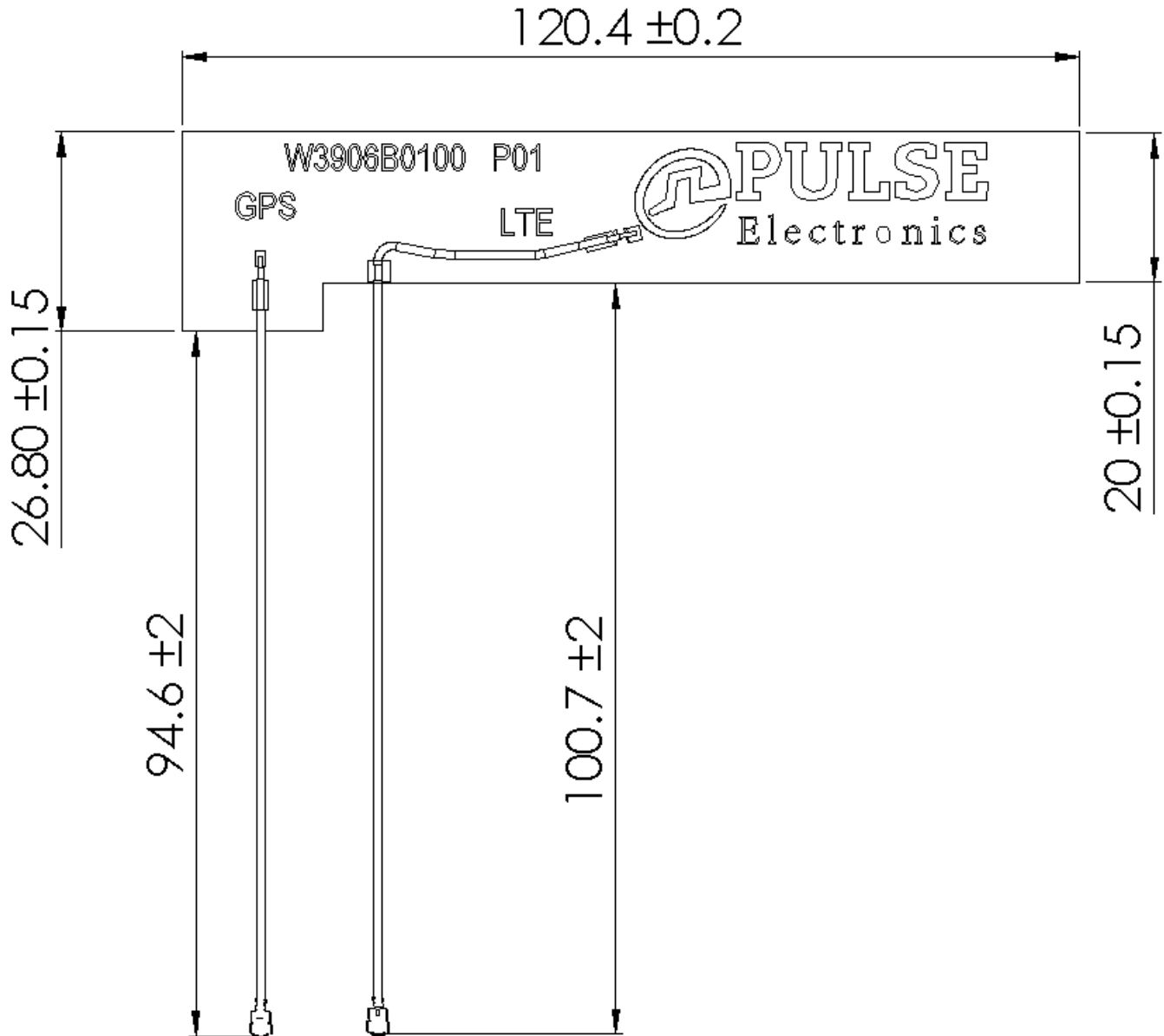
| | |
|-----------------------|------------|
| Operating Temperature | -40~+85° C |
| Storage Temperature | -40~+85° C |
| RoHS Compliant | Yes |

Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

MECHANICAL DRAWING



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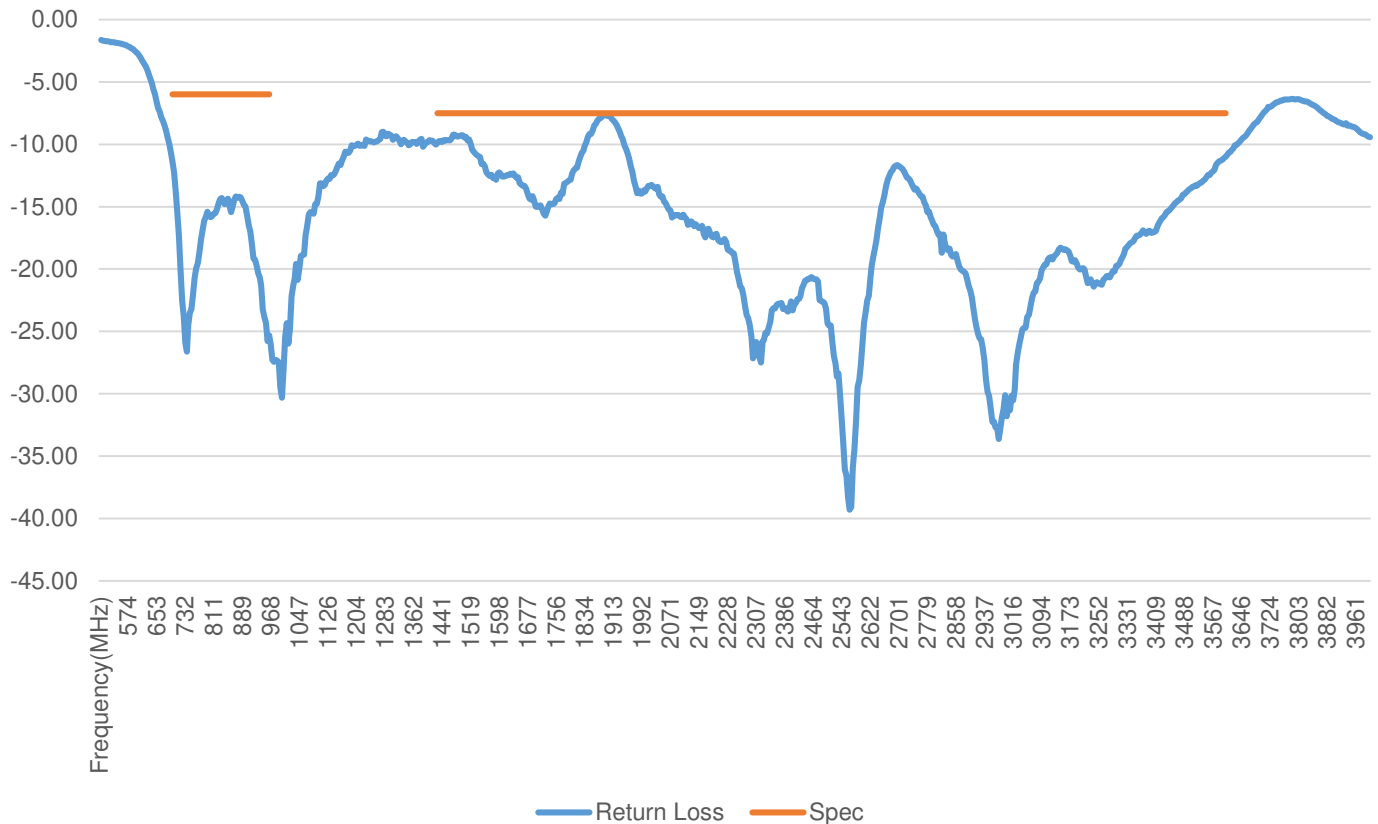
Series: Gemini

PART NUMBER: W3906B0100

CHARTS

Return Loss

LTE Return Loss



Issue: 1722

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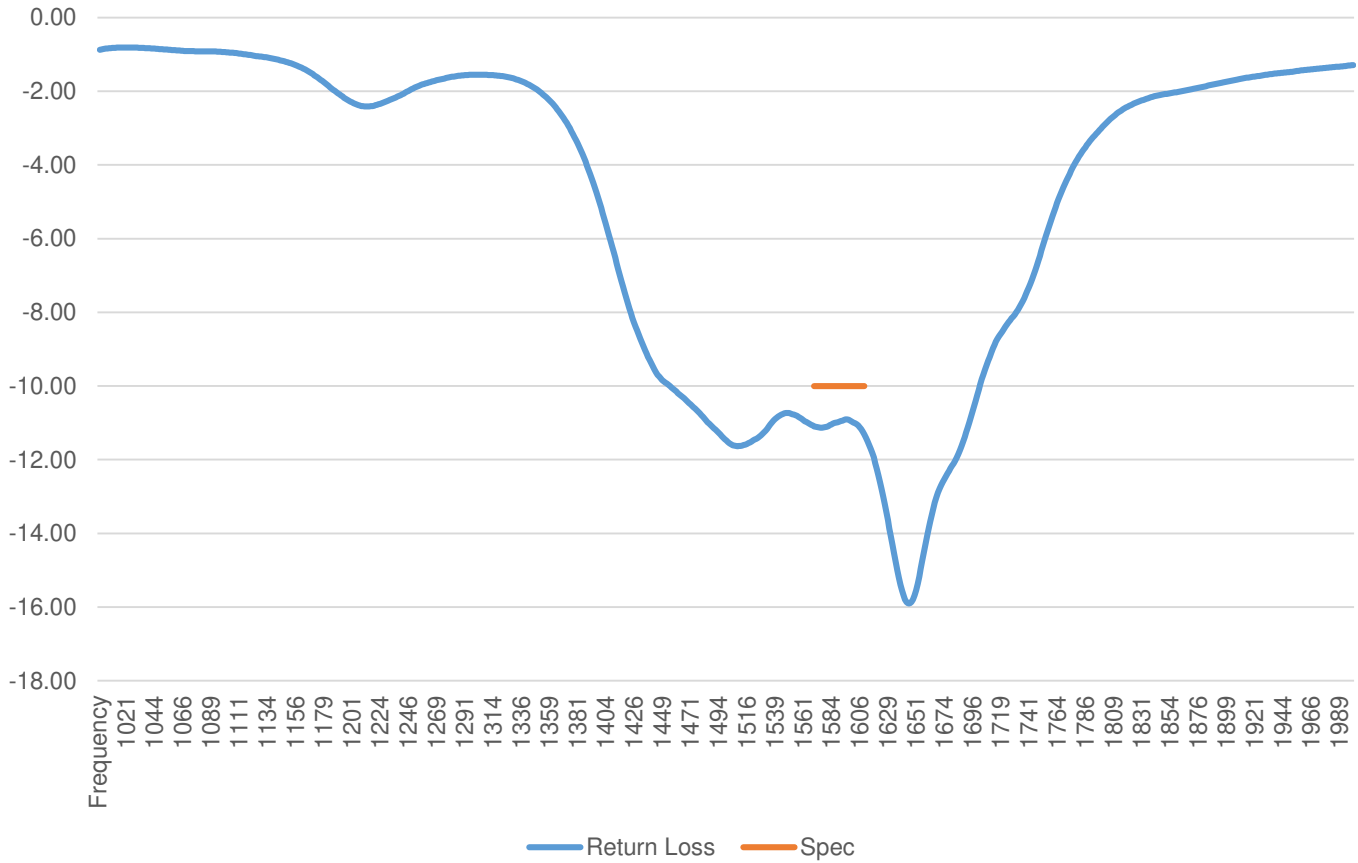
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CHARTS

Return Loss

GNSS Return Loss



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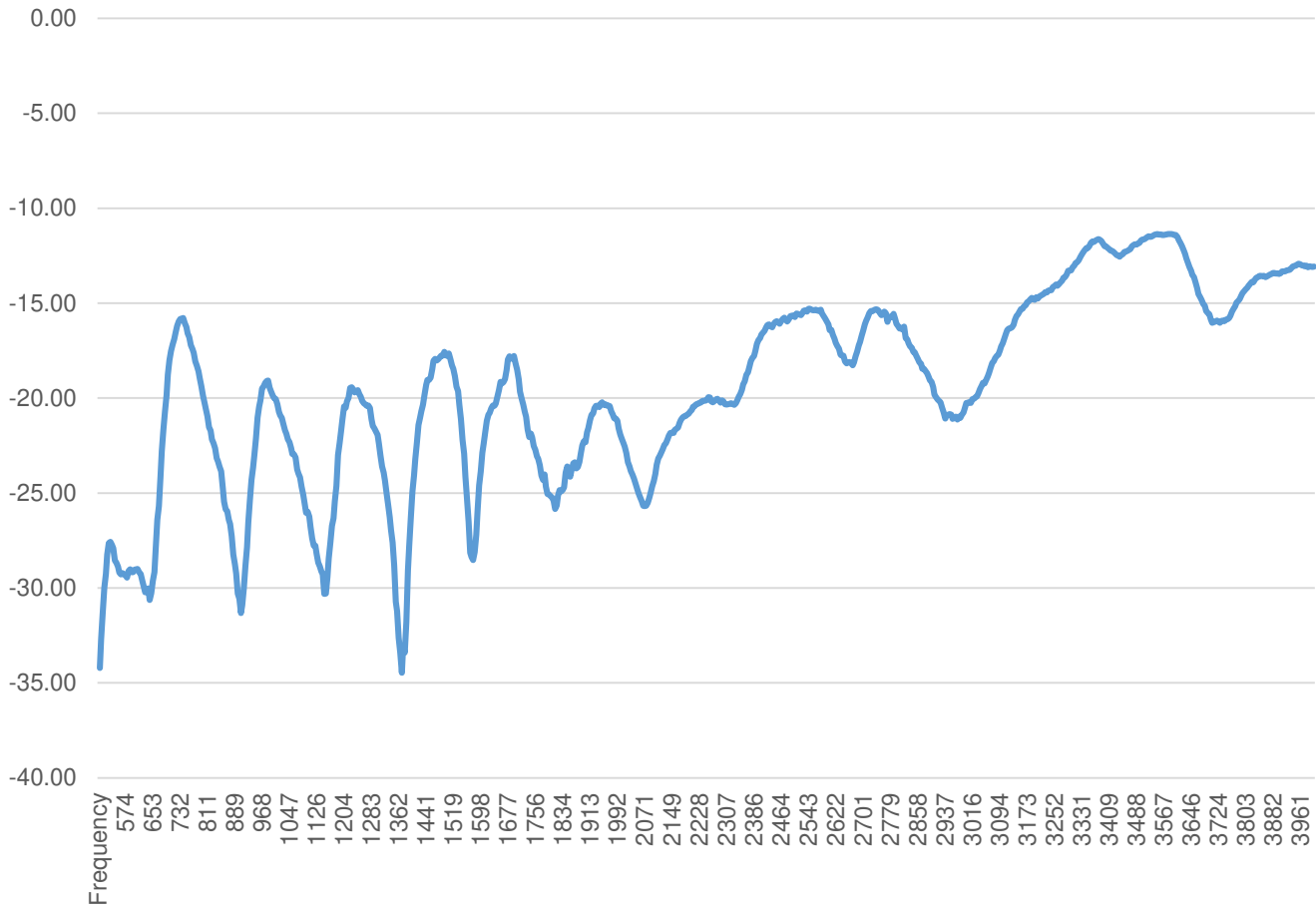
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PART NUMBER: W3906B0100

CHARTS

Isolation

LTE & GNSS Isolation



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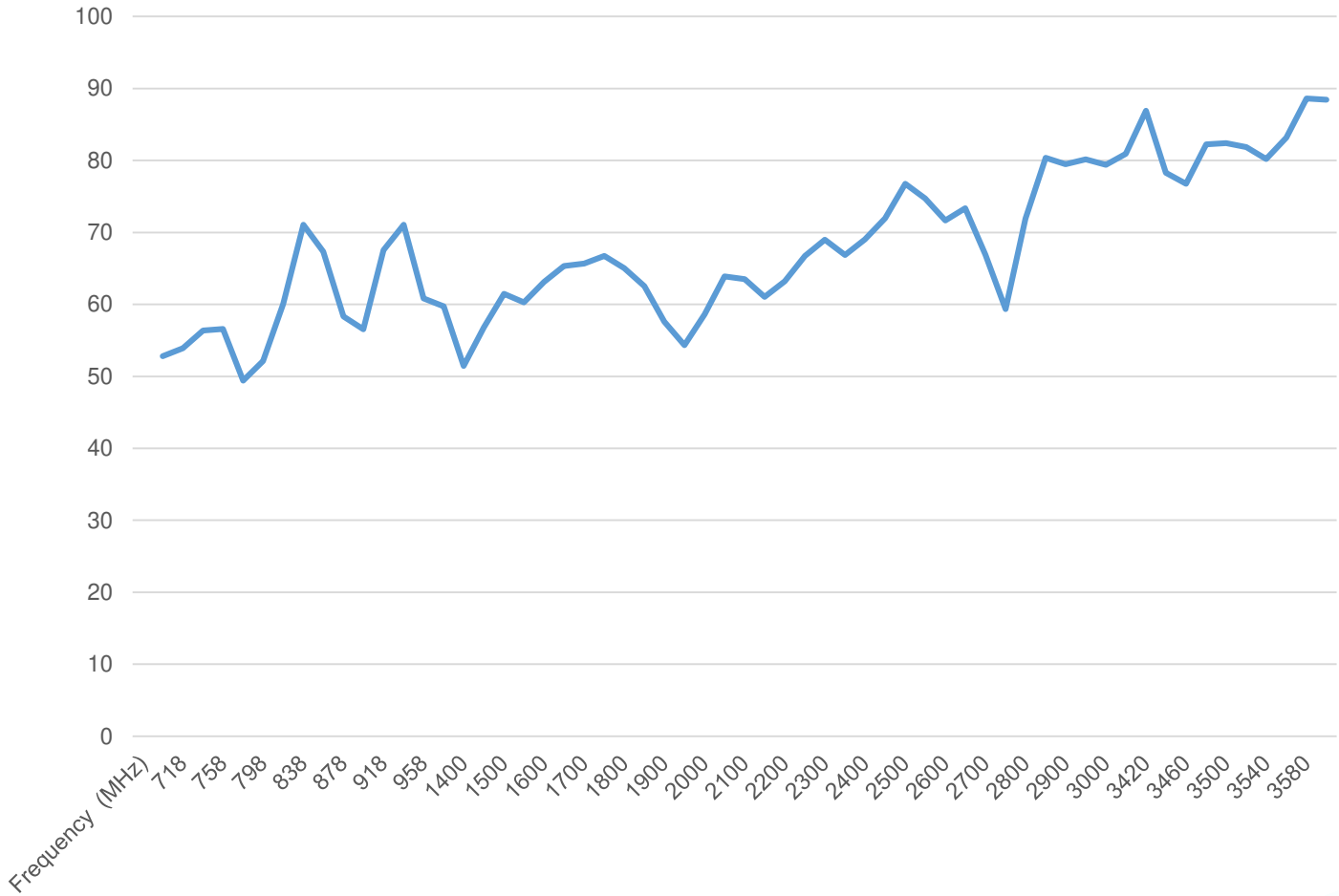
Series: Gemini

PART NUMBER: W3906B0100

CHARTS

Efficiency(%)

LTE Efficiency(%)



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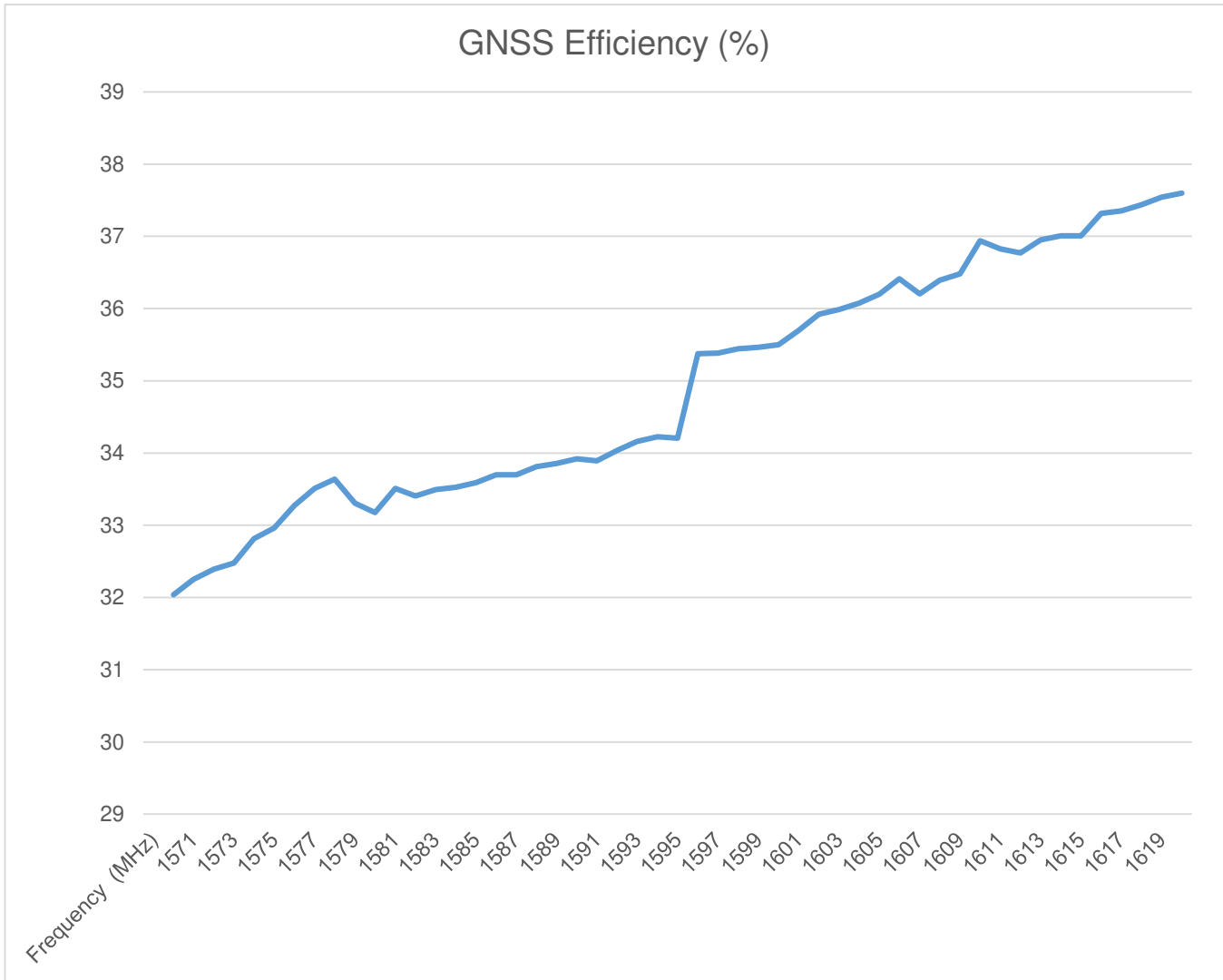
Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

CHARTS

Efficiency(%)



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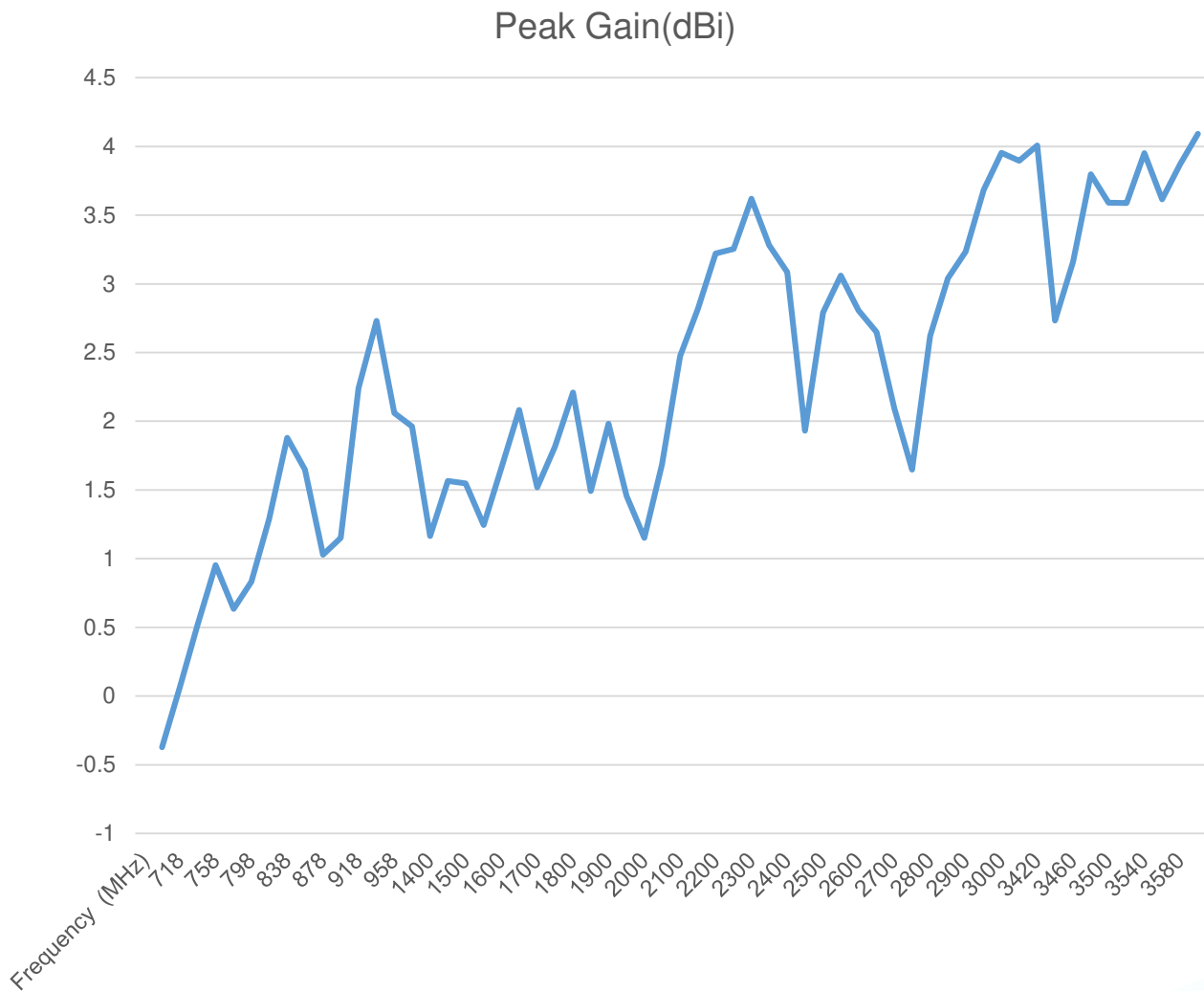
Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

CHARTS

Peak Gain(dBi)



Issue: 1722

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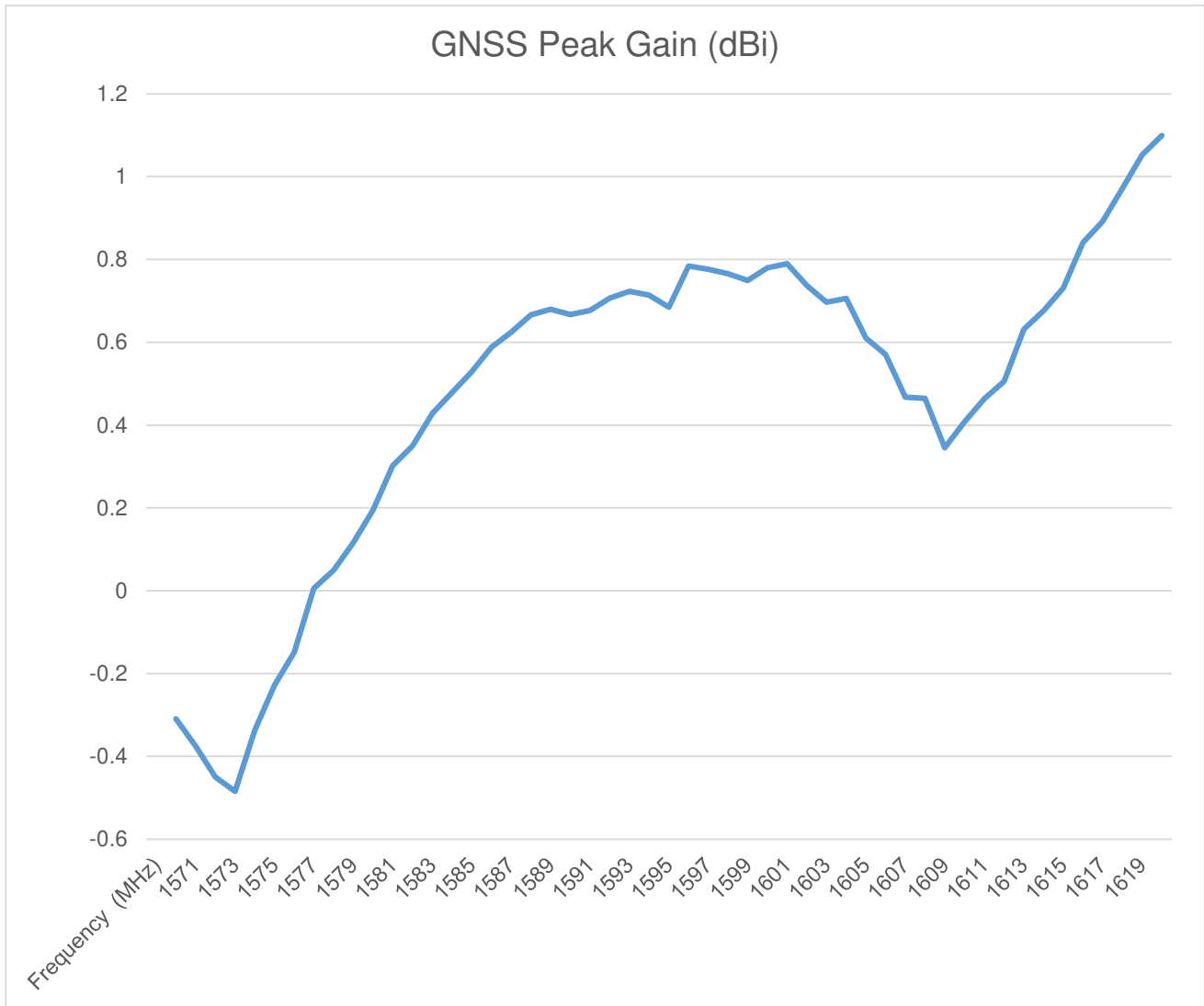
Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

CHARTS

Peak Gain(dBi)



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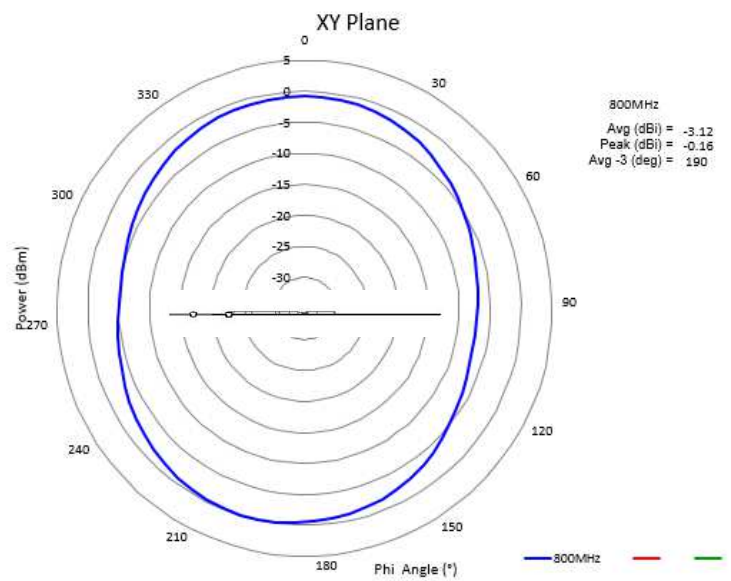
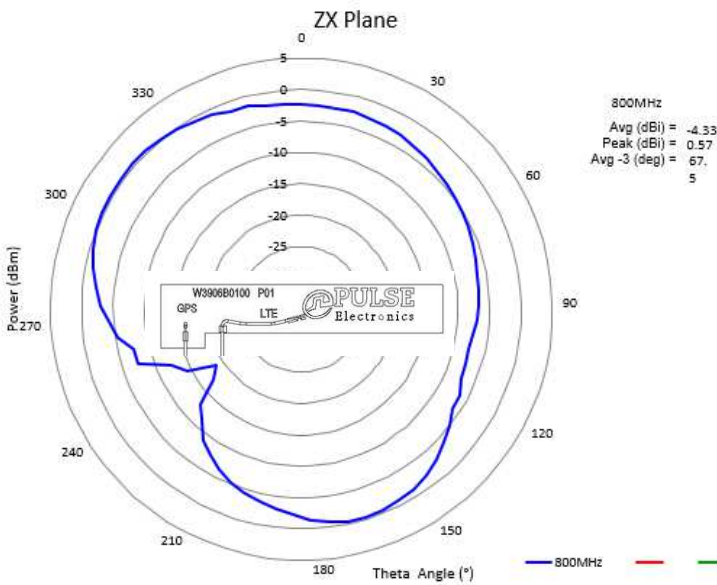
PART NUMBER: W3906B0100

CHARTS

LTE radiation pattern
698-960MHz
(800MHz)

Elevation Plane

Horizontal Plane



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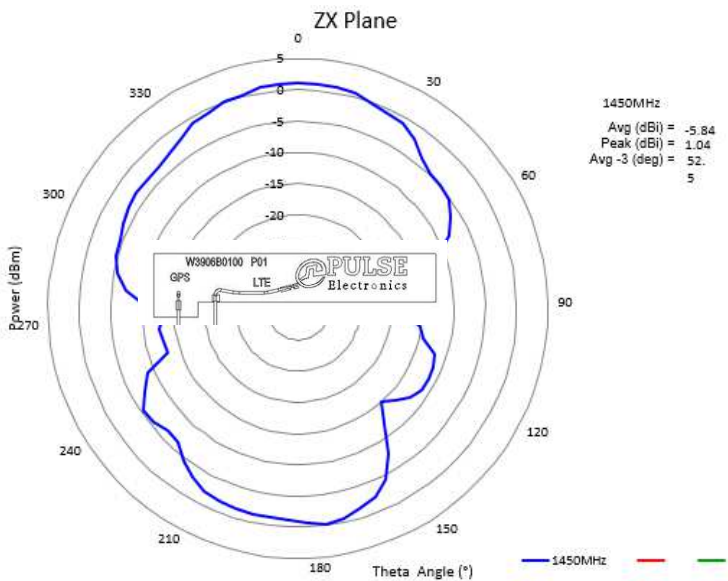
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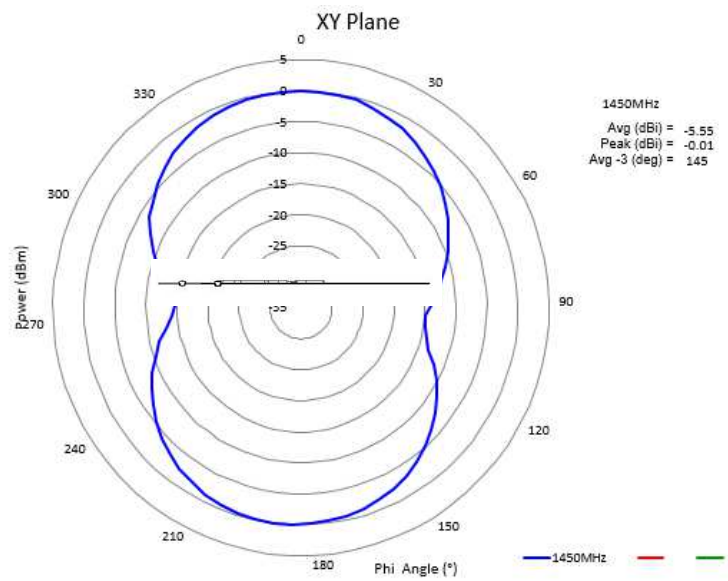
CHARTS

LTE radiation pattern
1427.9-1510.9MHz
(1450MHz)

Elevation Plane



Horizontal Plane



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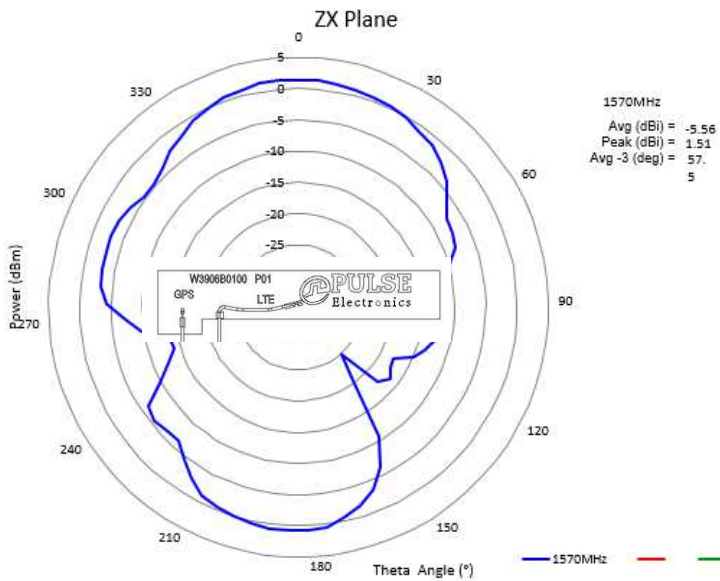
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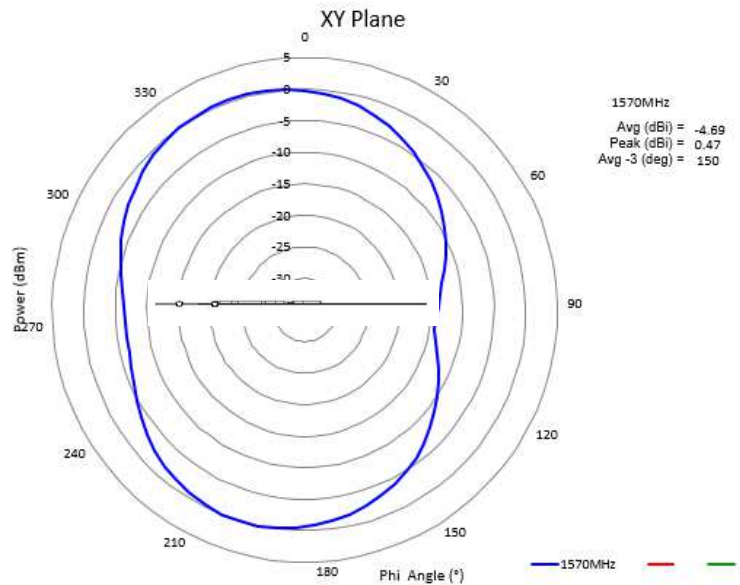
CHARTS

LTE radiation pattern
1559-1610MHz
(1570MHz)

Elevation Plane



Horizontal Plane



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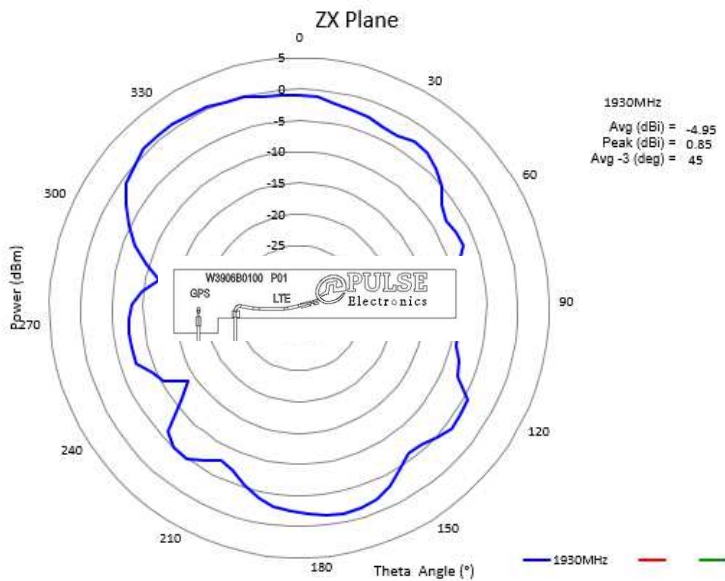
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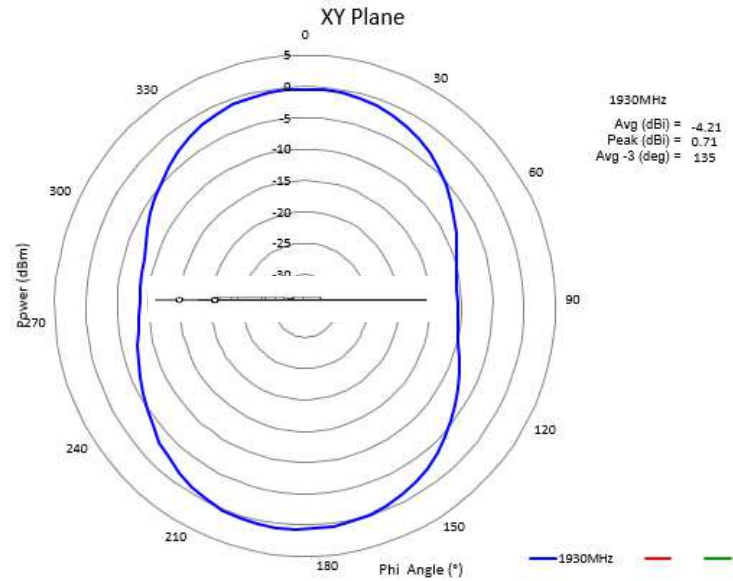
CHARTS

LTE radiation pattern
1695-2200MHz
(1930MHz)

Elevation Plane



Horizontal Plane



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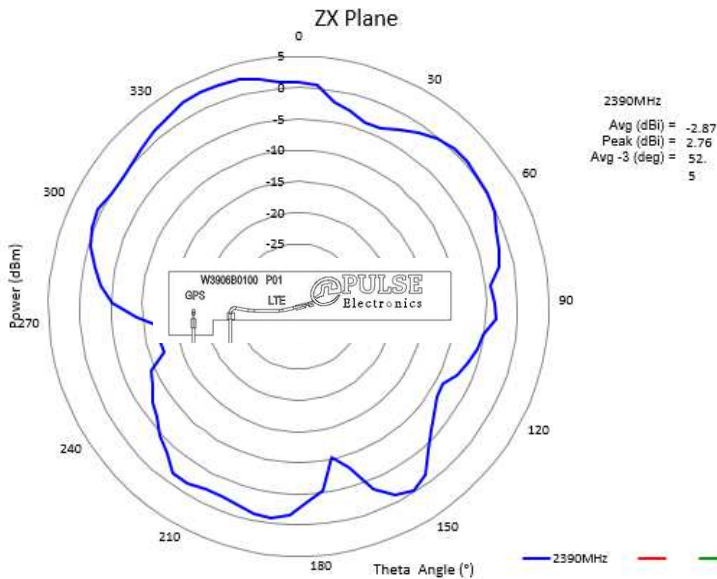
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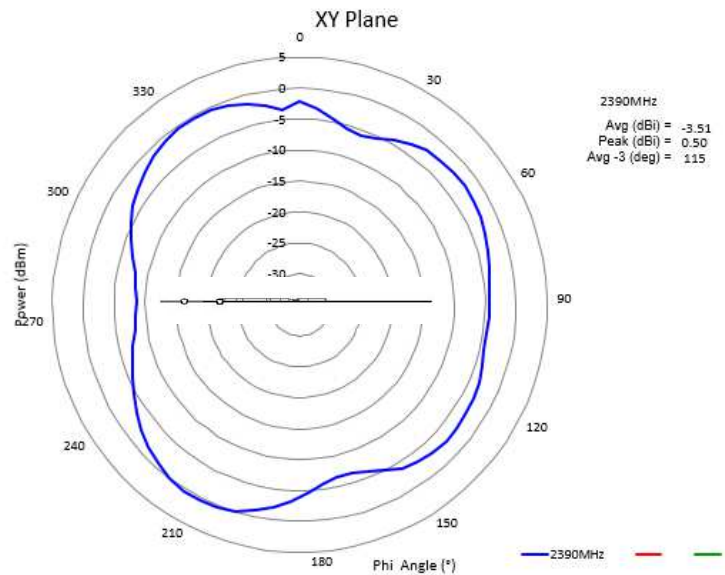
CHARTS

LTE radiation pattern
2300-2700MHz
(2390MHz)

Elevation Plane



Horizontal Plane



Issue: 1722

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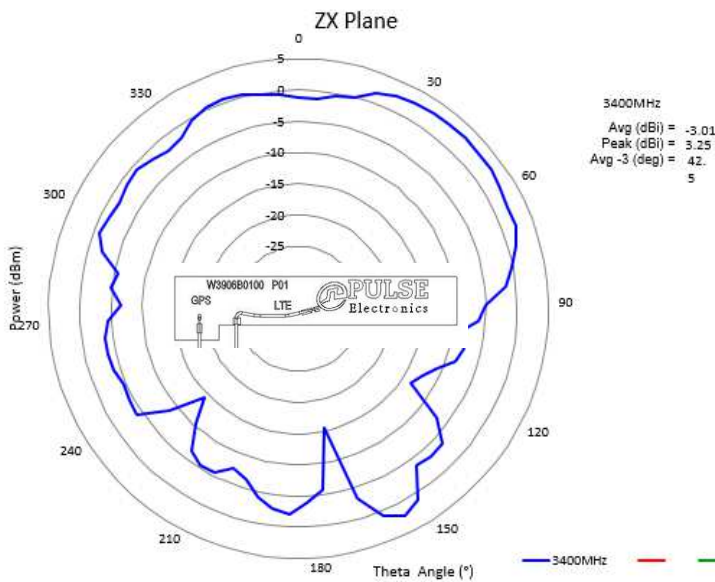
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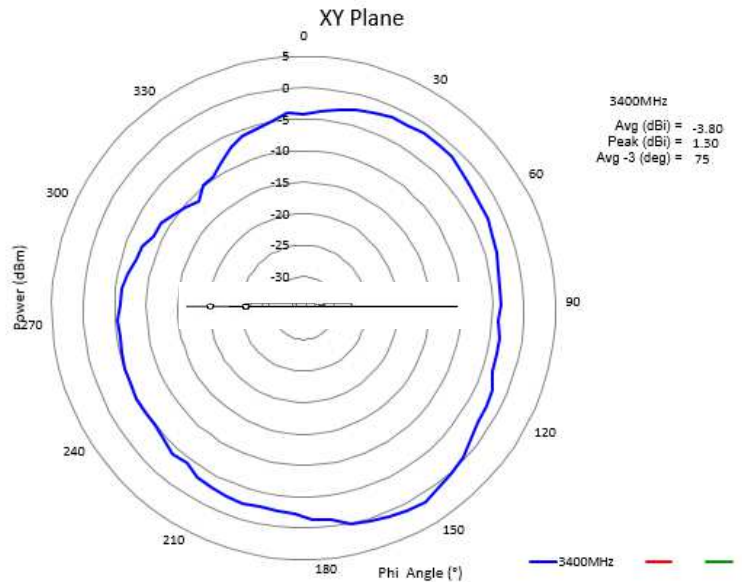
CHARTS

LTE radiation pattern
3400-3600MHz
(3400MHz)

Elevation Plane



Horizontal Plane



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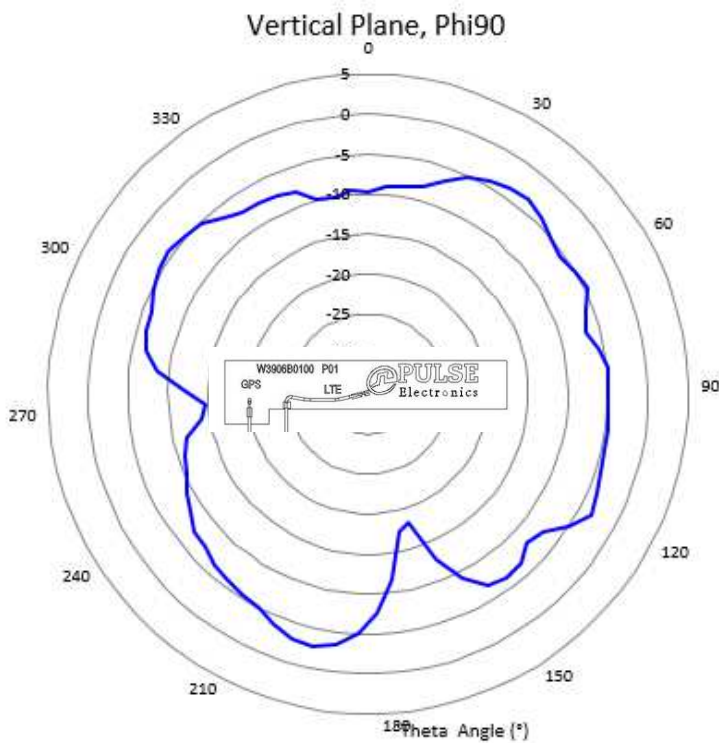
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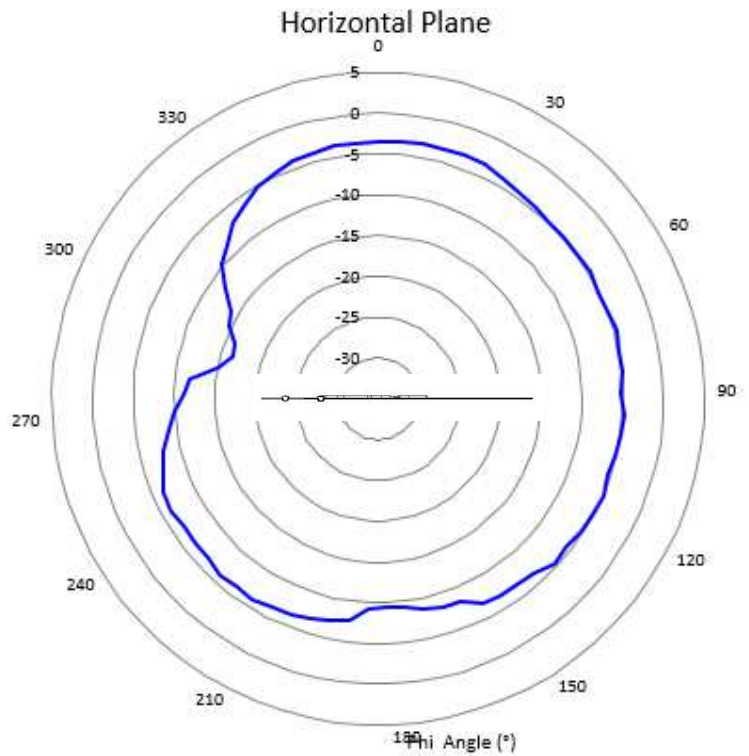
CHARTS

GNSS radiation pattern
1570-1610MHz
(1575MHz)

Elevation Plane



Horizontal Plane



Issue: 1722

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Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

PACKAGING

5pcs antenna per PE bag

400pcs PE bags per form bag

2pcs form bag per package box

Total 4000pcs per package box

Package box: 460mm*235mm*140mm