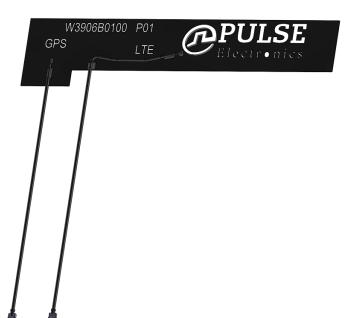


Description: LTE Primary + GNSS FPC Antenna

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



Issue: 1722

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For more information: Pulse Worldwide

Pulse Worldwide Headquarters 15255 Innovation Drive #100 San Diego, CA 92128 USA Tel:1-858-674-8100

All dimensions are in mm / inches

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

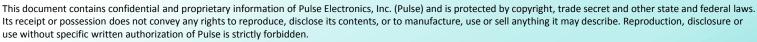
ELECTRICAL SPECIFICATIONS

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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2



Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

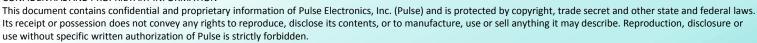
ELECTRICAL SPECIFICATIONS

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 RE parameters measured on 2mm thick PC plate	

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

Issue: 1722

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3



Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

MECHANICAL SPECIFICATIONS

mm
2.0g
BLACK FPC
AWG#32 1.13MM
139mm
105MM

ENVIRONMENTAL SPECIFICATIONS

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

Issue: 1722 In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION



4

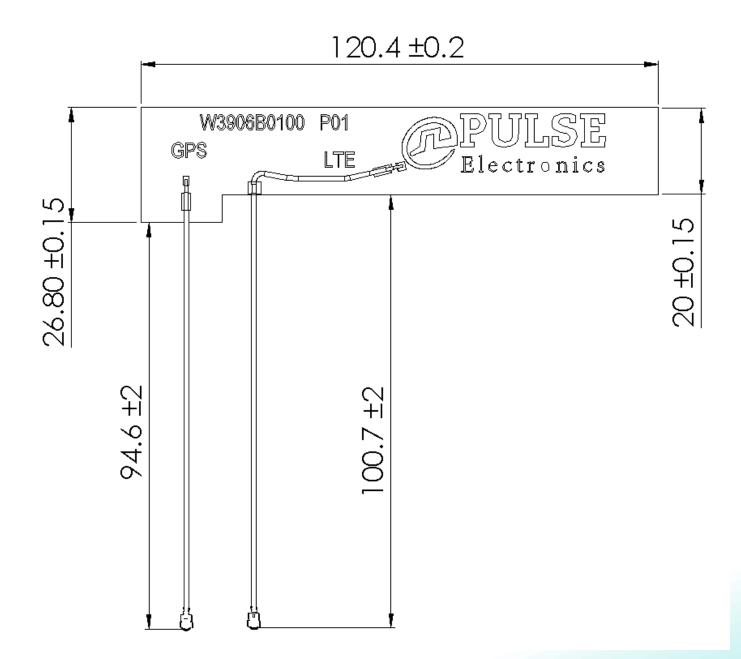


Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

MECHANICAL DRAWING



Issue: 1722

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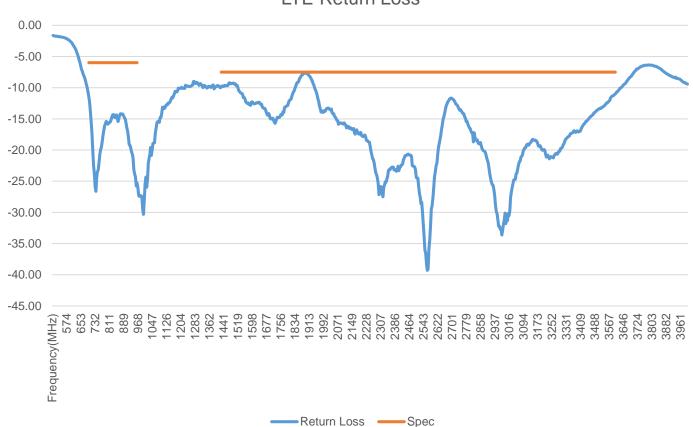
Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

CHARTS

Return Loss



LTE Return Loss

lssue: 1722

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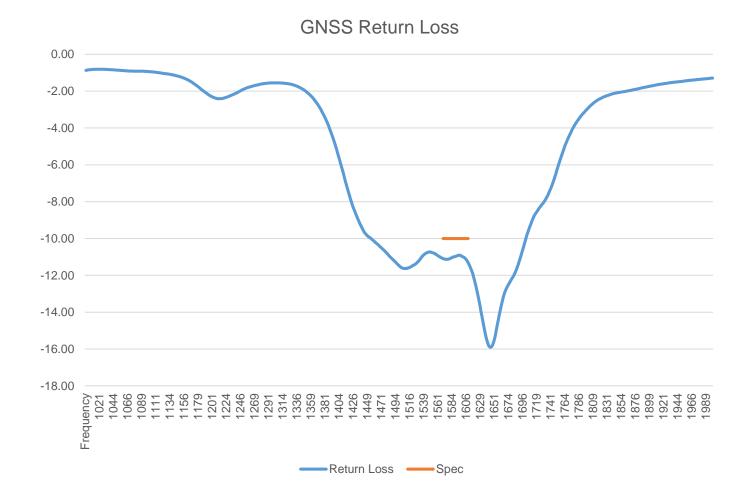
Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

CHARTS

Return Loss



Issue: 1722

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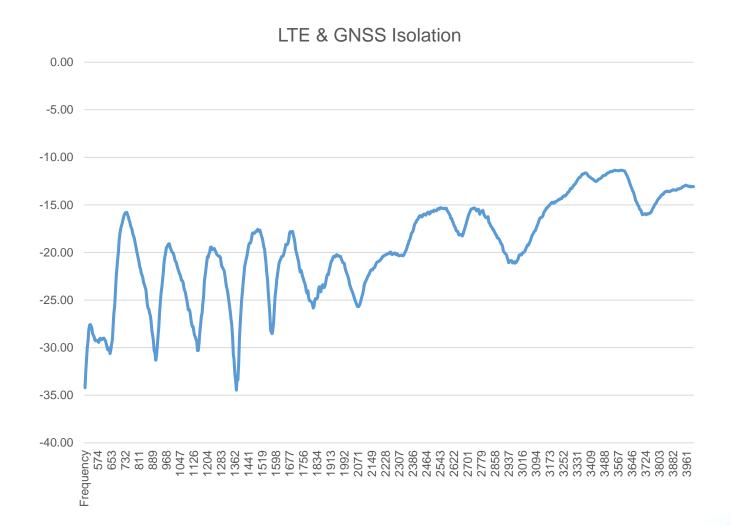
Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

CHARTS

Isolation



Issue: 1722

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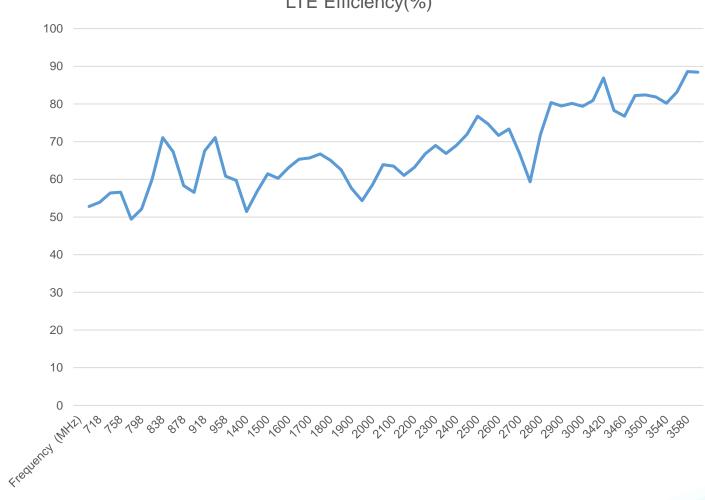
Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

CHARTS

Efficiency(%)



LTE Efficiency(%)

Issue: 1722

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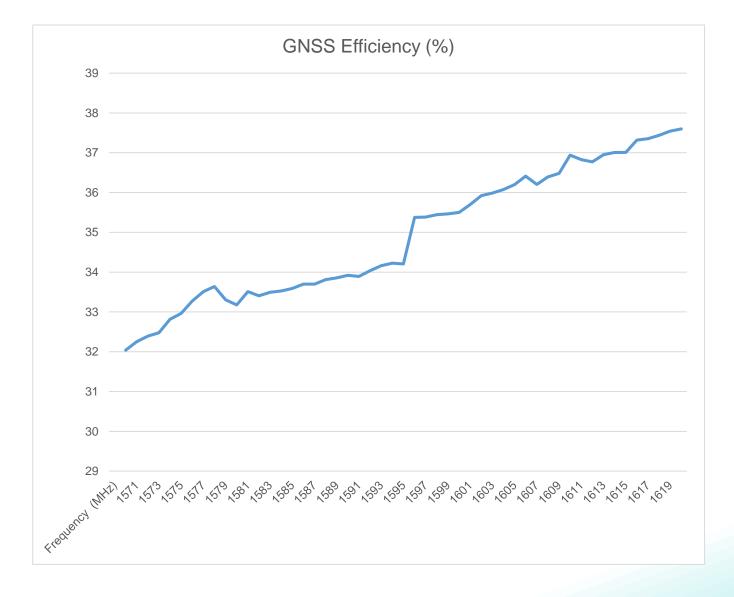
Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

CHARTS

Efficiency(%)



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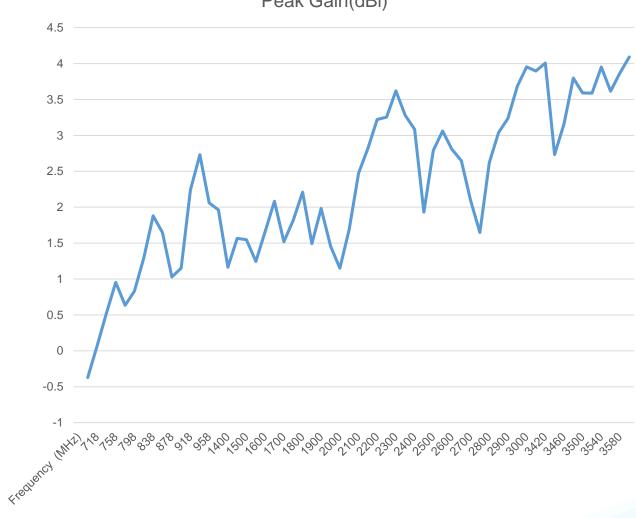
Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

CHARTS

Peak Gain(dBi)



Peak Gain(dBi)

Issue: 1722

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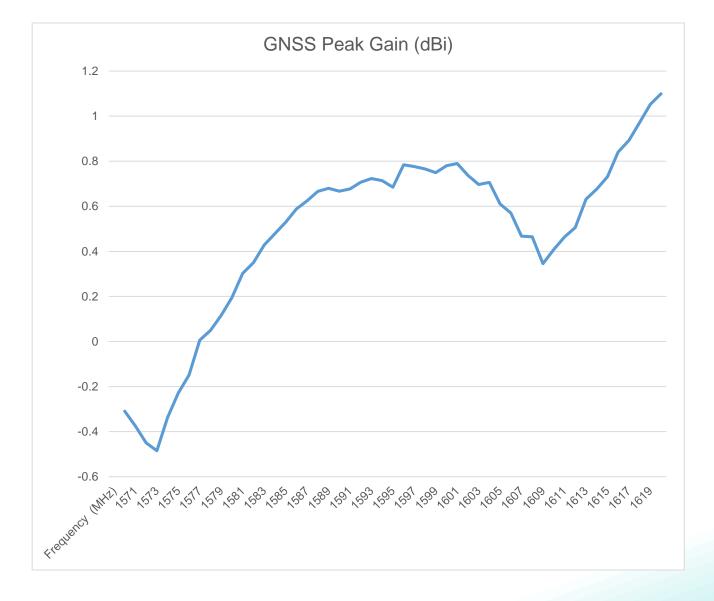
Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

CHARTS

Peak Gain(dBi)



Issue: 1722

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Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

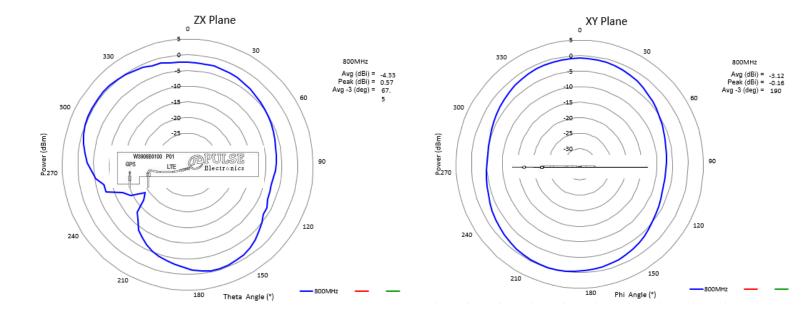
PART NUMBER: W3906B0100

CHARTS

LTE radiation pattern 698-960MHz (800MHz)

Elevation Plane

Horizontal Plane



Issue: 1722

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Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

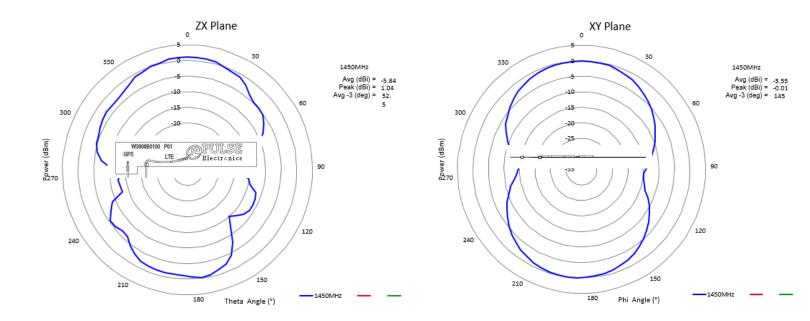
PART NUMBER: W3906B0100

CHARTS

LTE radiation pattern 1427.9-1510.9MHz (1450MHz)

Elevation Plane

Horizontal Plane



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Series: Gemini

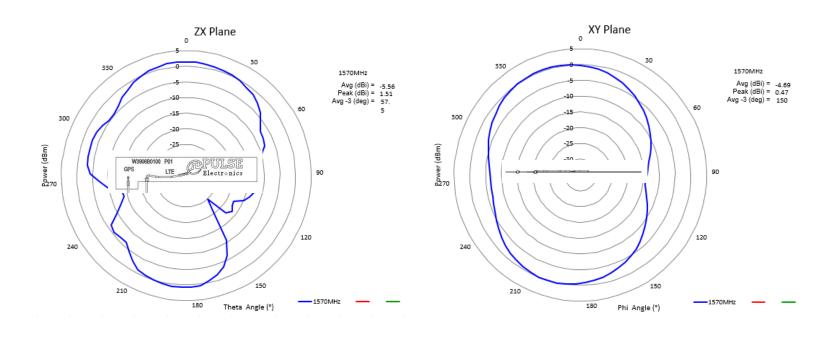
PART NUMBER: W3906B0100

CHARTS

LTE radiation pattern 1559-1610MHz (1570MHz)

Elevation Plane

Horizontal Plane



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Series: Gemini

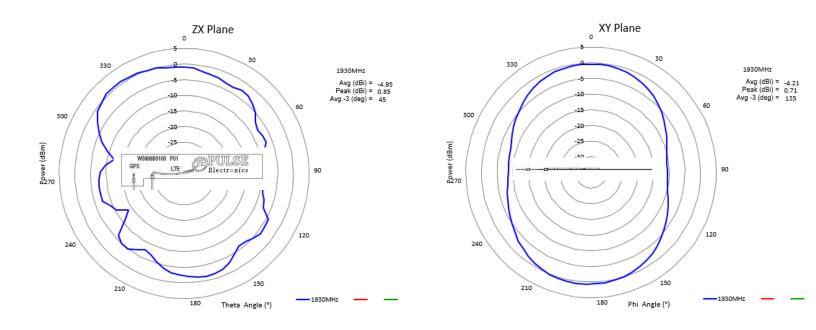
PART NUMBER: W3906B0100

CHARTS

LTE radiation pattern 1695-2200MHz (1930MHz)

Elevation Plane

Horizontal Plane



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Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

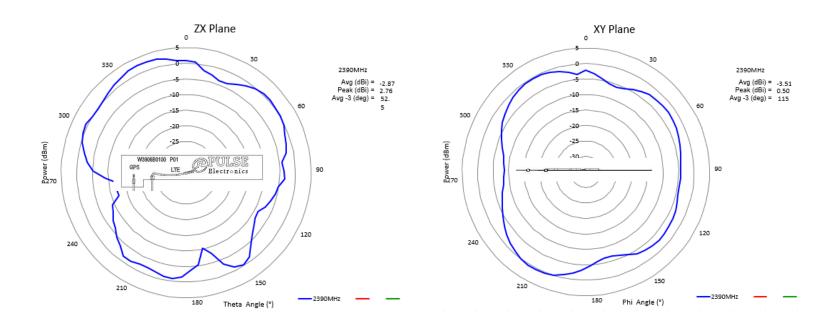
PART NUMBER: W3906B0100

CHARTS

LTE radiation pattern 2300-2700MHz (2390MHz)

Elevation Plane

Horizontal Plane



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Series: Gemini

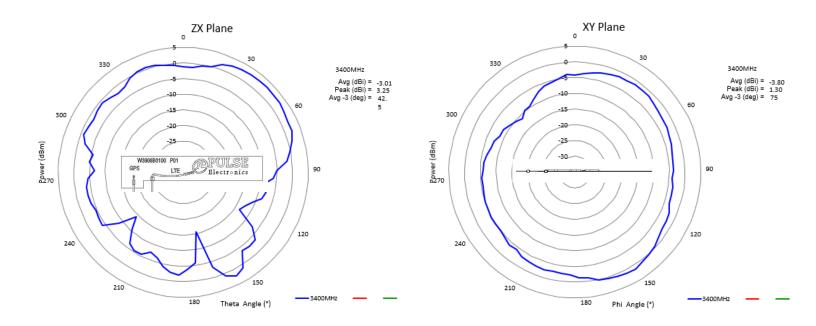
PART NUMBER: W3906B0100

CHARTS

LTE radiation pattern 3400-3600MHz (3400MHz)

Elevation Plane

Horizontal Plane



Issue: 1722

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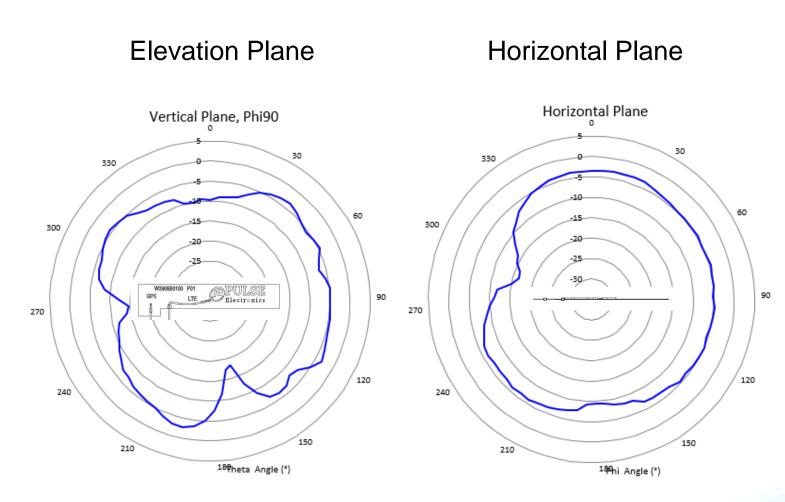
Description: LTE Primary + GNSS FPC Antenna

Series: Gemini

PART NUMBER: W3906B0100

CHARTS

GNSS radiation pattern 1570-1610MHz (1575MHz)



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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

