PulseLARSEN Antennas

TECHNICAL DATA SHEET

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

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%

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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 detaill

ENVIRONMENTAL SPECIFICATIONS

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

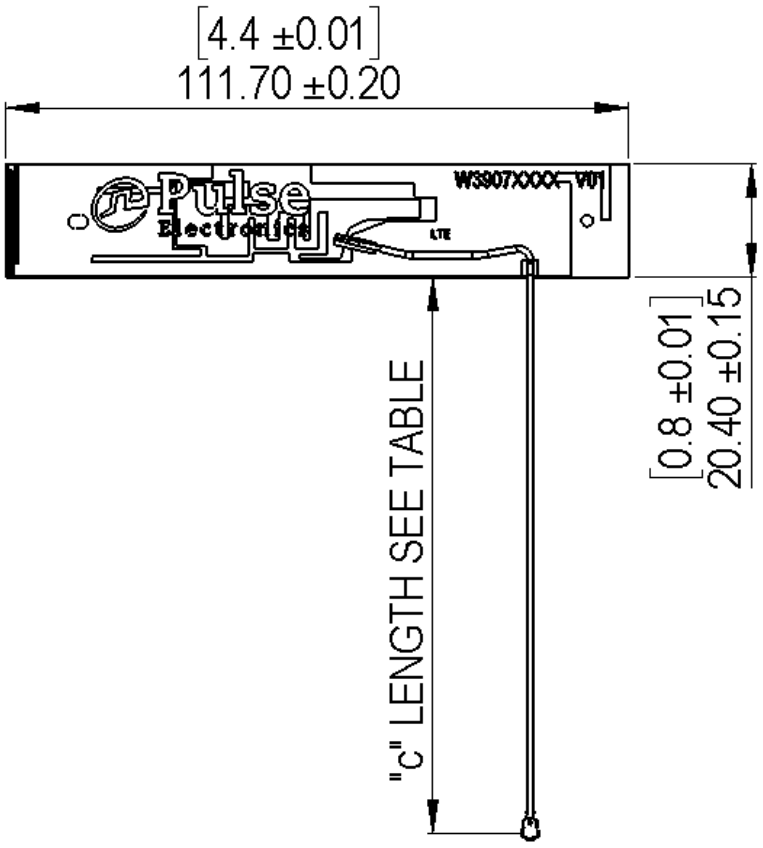
RoHS COMPLIANT

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

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CHARTS

Return Loss

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

RoHS COMPLIANT

Description: LTE 698-3600MHz FPC Antenna

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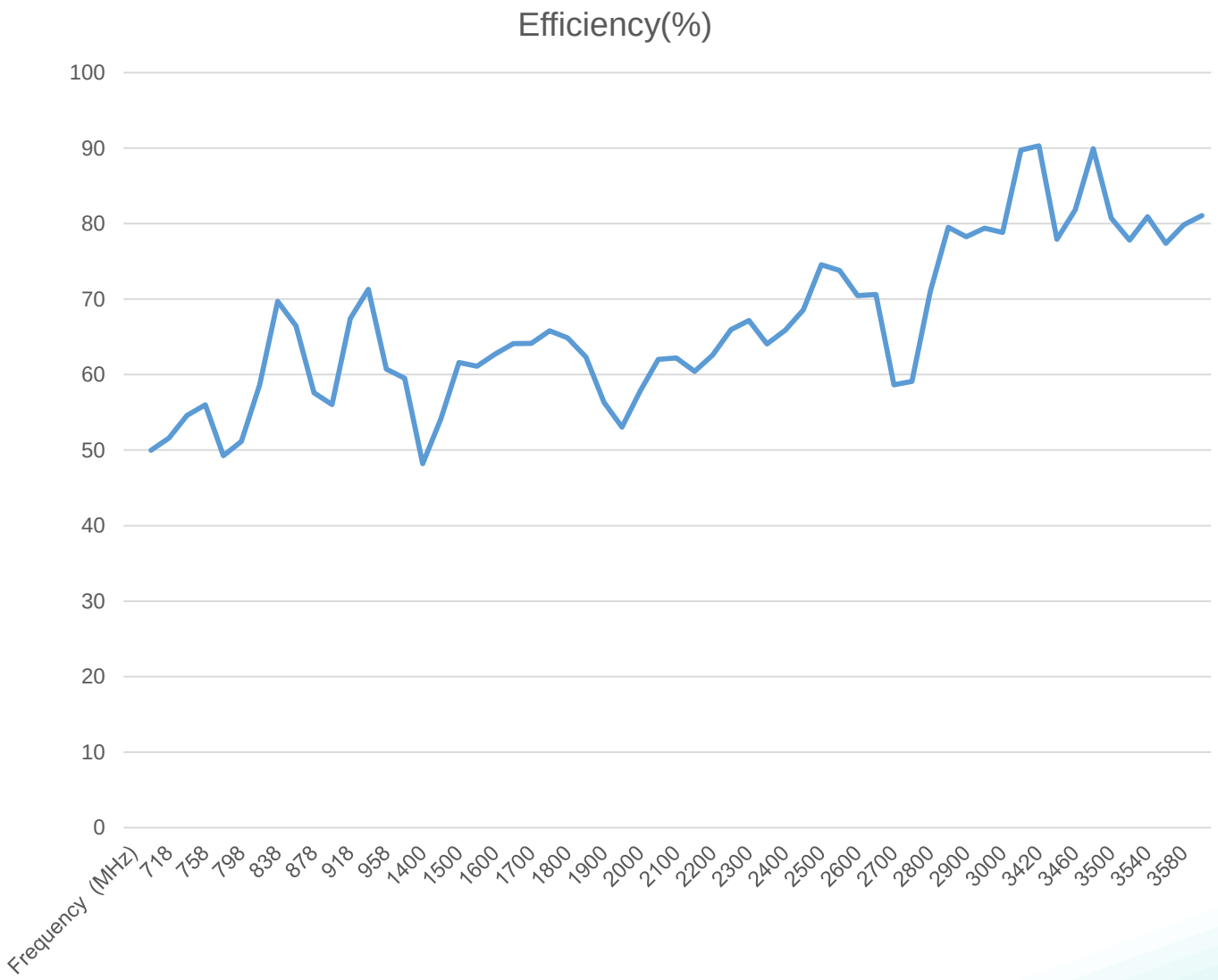
CHARTS

Efficiency



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

RoHS COMPLIANT

Description: LTE 698-3600MHz FPC Antenna

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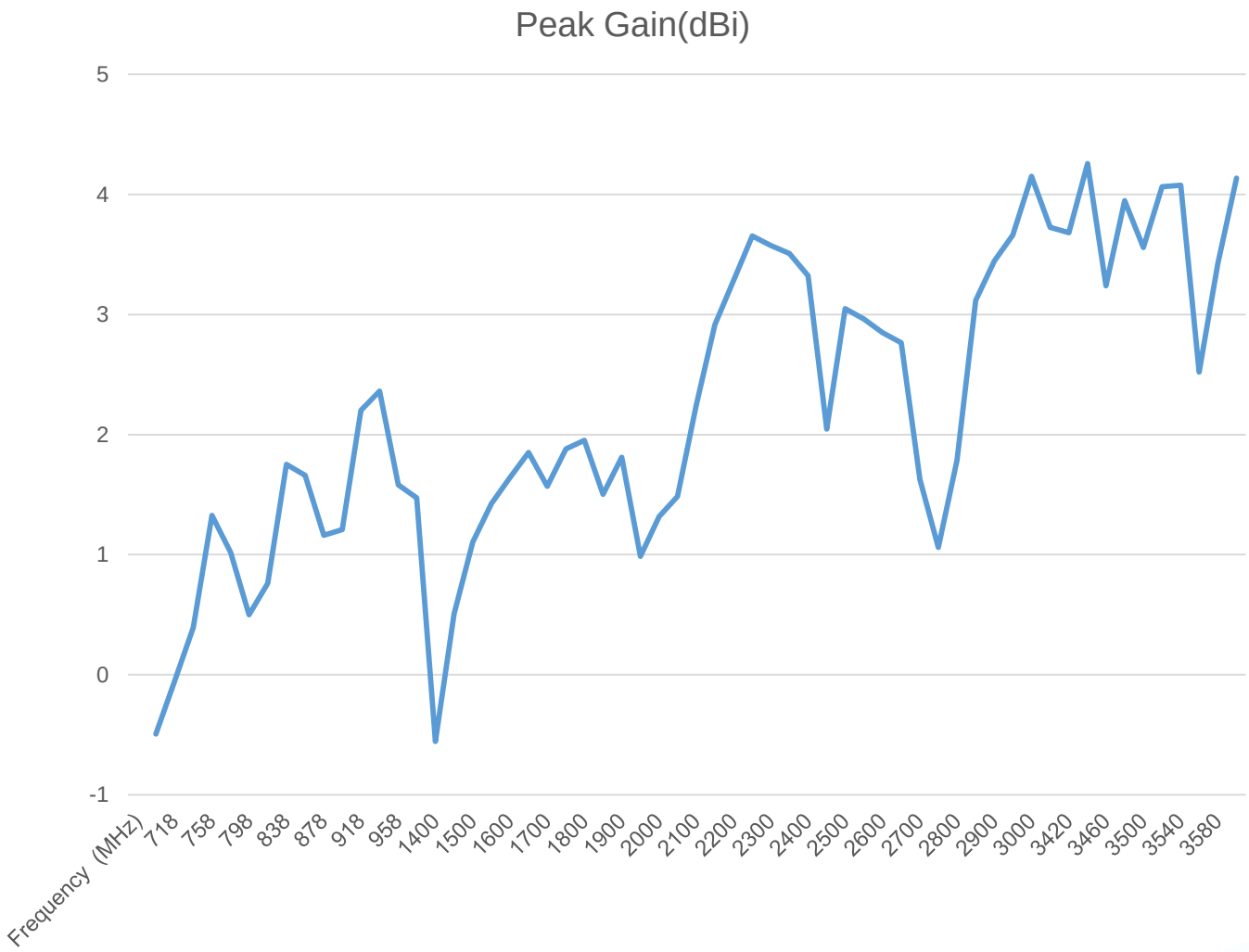
CHARTS

Peak Gain



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

RoHS COMPLIANT

Description: LTE 698-3600MHz FPC Antenna

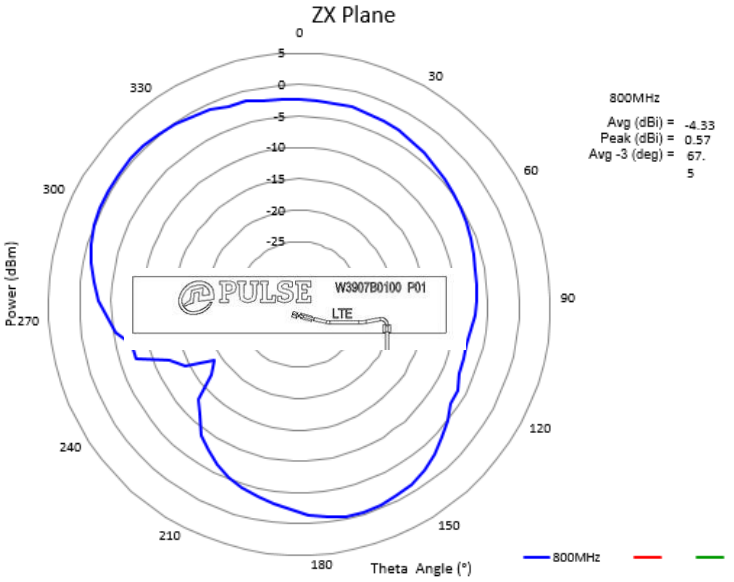
Series: Gemini

PART NUMBER: W3907XXXX

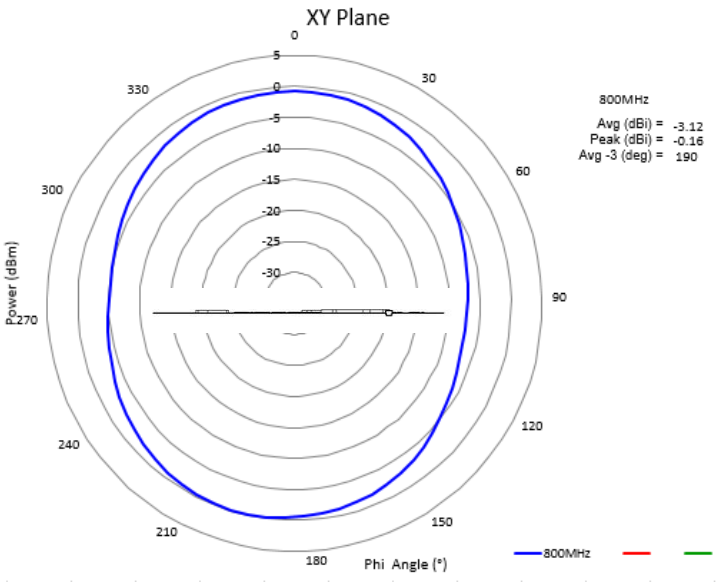
CHARTS

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

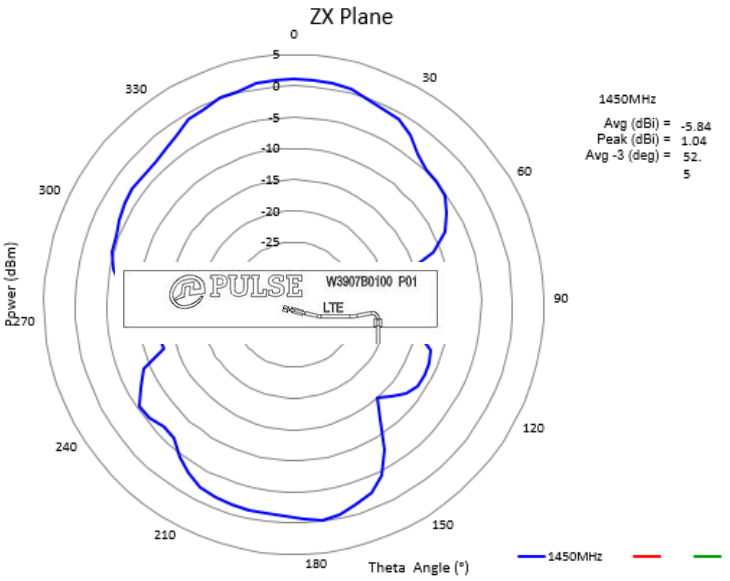
Series: Gemini

PART NUMBER: W3907XXXX

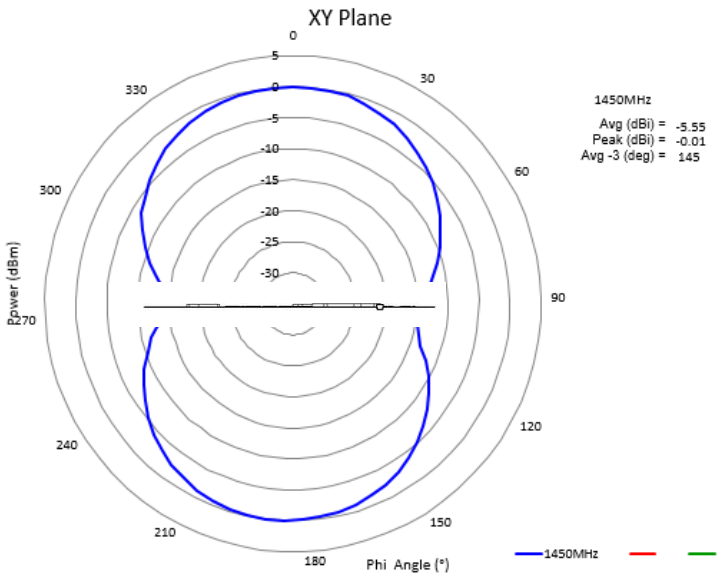
CHARTS

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

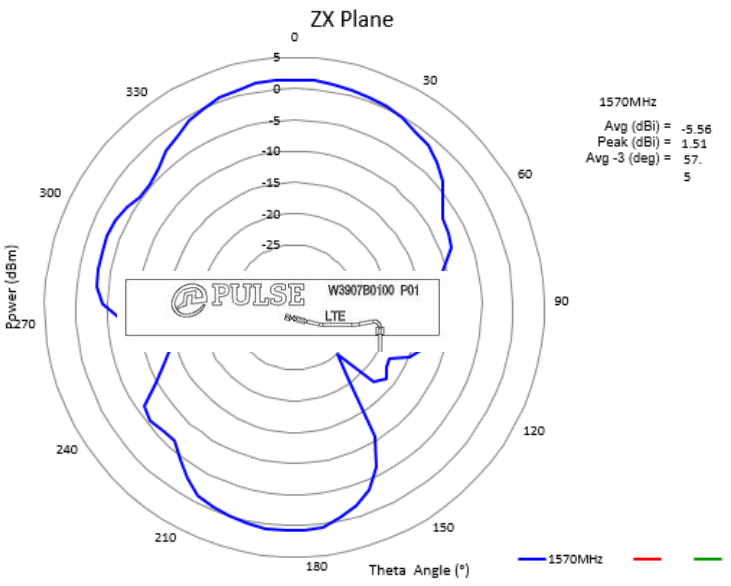
Series: Gemini

PART NUMBER: W3907XXXX

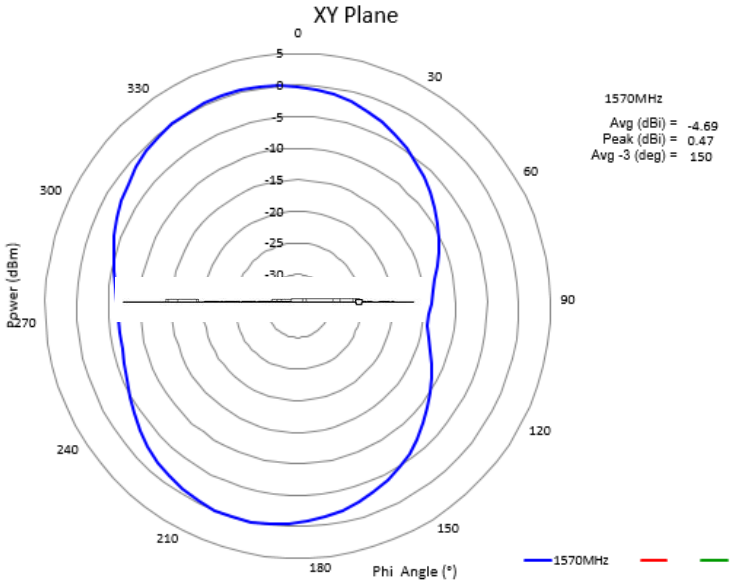
CHARTS

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

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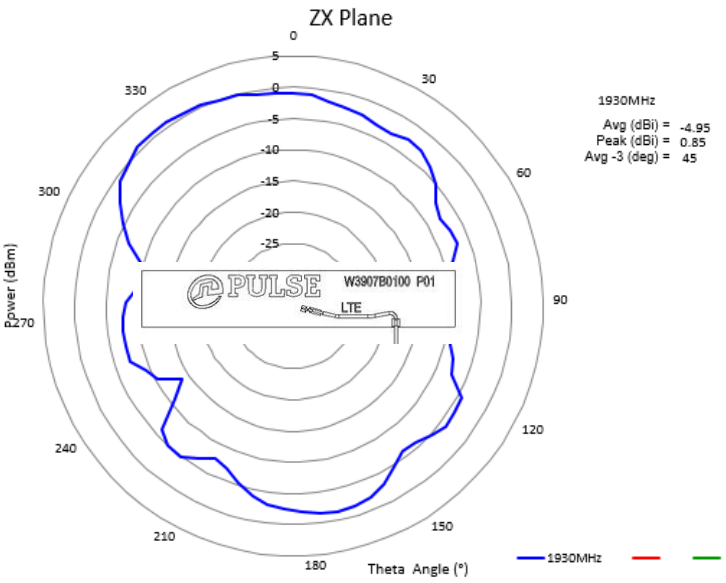
Series: Gemini

PART NUMBER: W3907XXXX

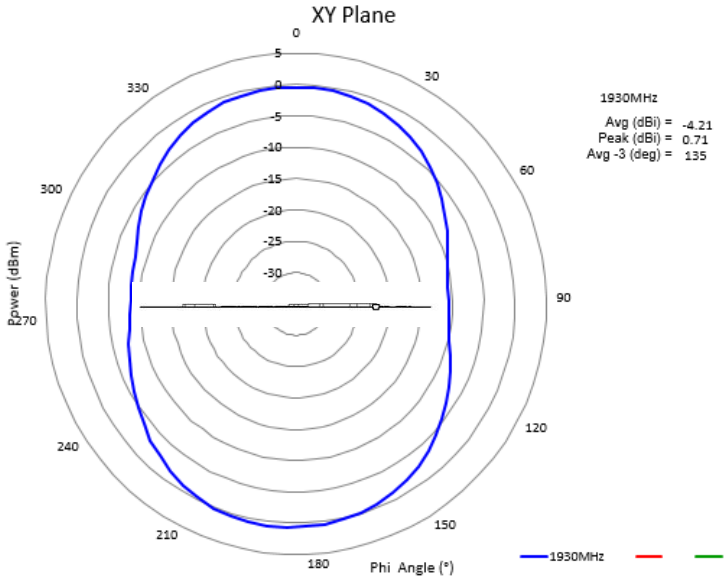
CHARTS

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

Elevation Plane



Horizontal Plane



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RoHS COMPLIANT

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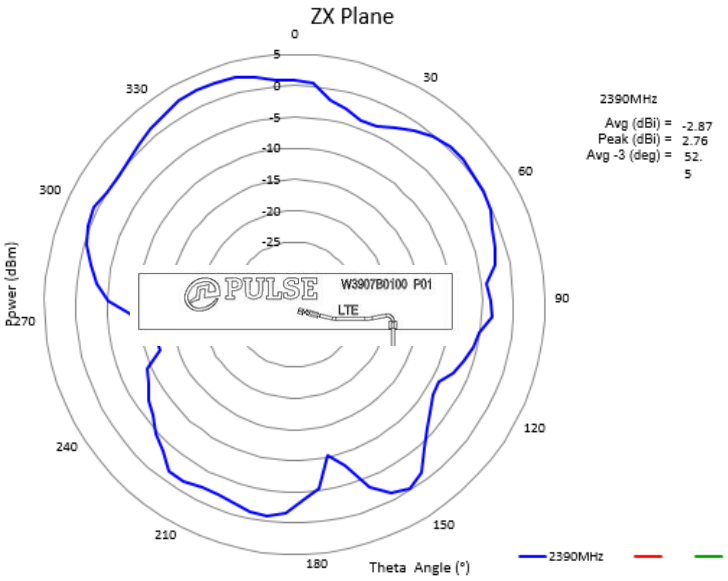
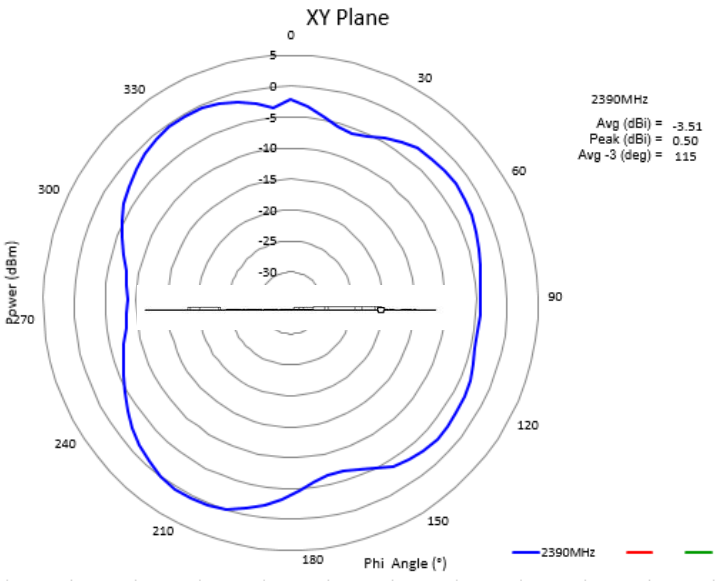
CHARTS

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

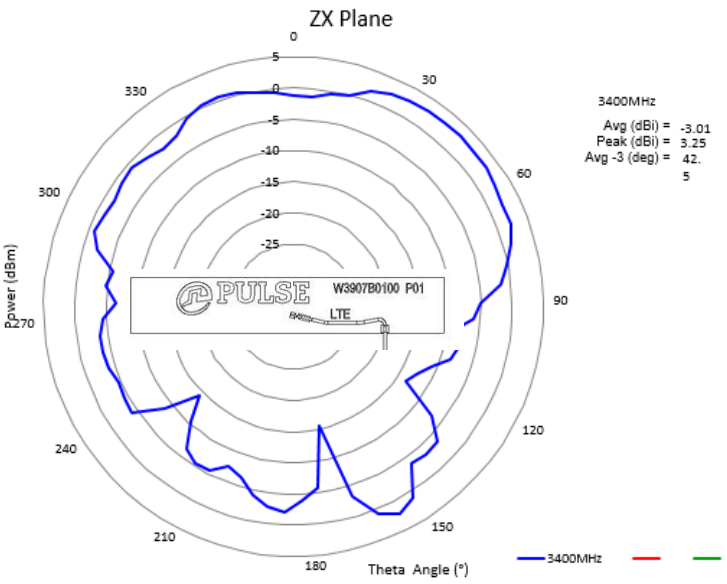
Series: Gemini

PART NUMBER: W3907XXXX

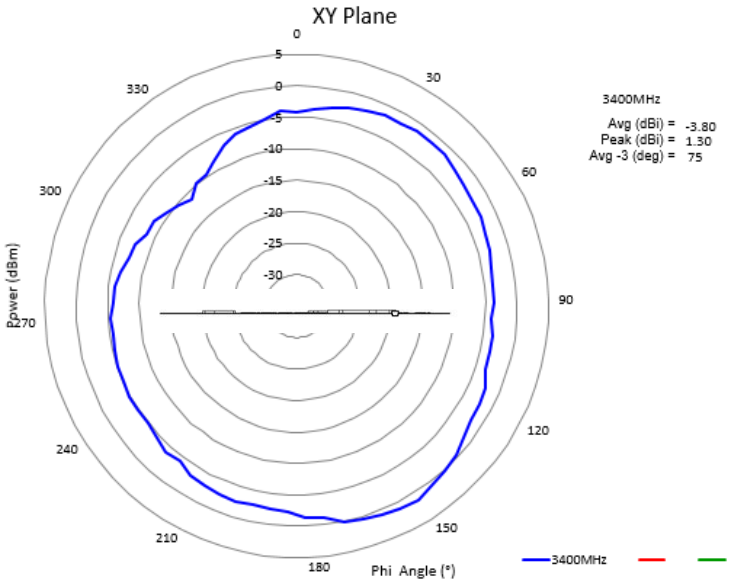
CHARTS

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

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