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YAGEO PULSE GROUP

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, 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: 2542

RoHS COMPLIANT

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Pulse GmbH & Do, KG
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Pulse (Suzhou) Wireless Products Co, Inc.
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ELECTRICAL SPECIFICATIONS

P/N	W3907B0100/ W3907B0127/ W3907BD0100	W3907B0350/ 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	W3907B0350/ 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: 2542

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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
CE / UKCA Compliant	Yes

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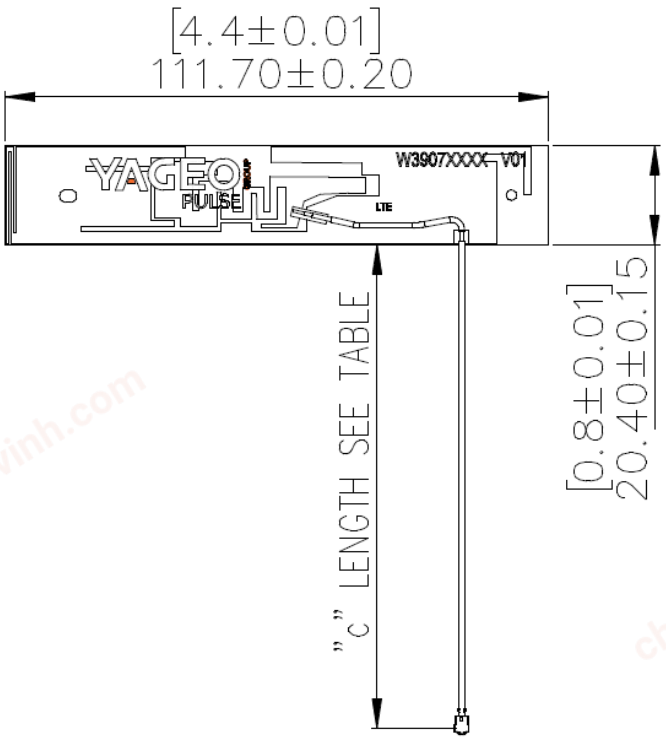
TECHNICAL DATA SHEET

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
W3907B0350	350MM	AWG#32 1.13MM	Equivalent of I-PEX MHF
W3907BD0350	350MM	AWG#36 0.81MM	Equivalent of I-PEX MHF4

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TECHNICAL DATA SHEET

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

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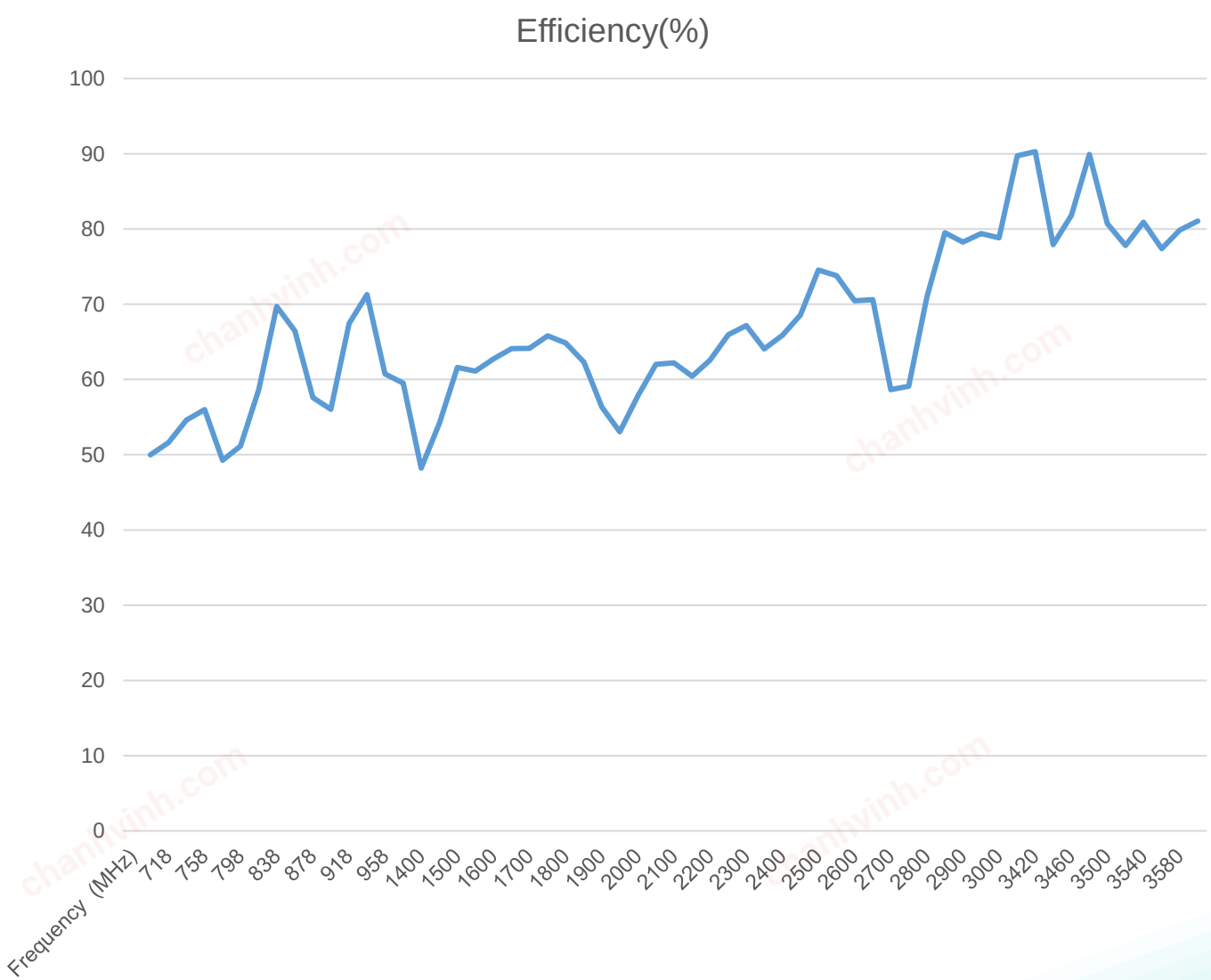
Description: LTE 698-3600MHz FPC Antenna

Series: Gemini

PART NUMBER: W3907XXXX

CHARTS

Efficiency



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

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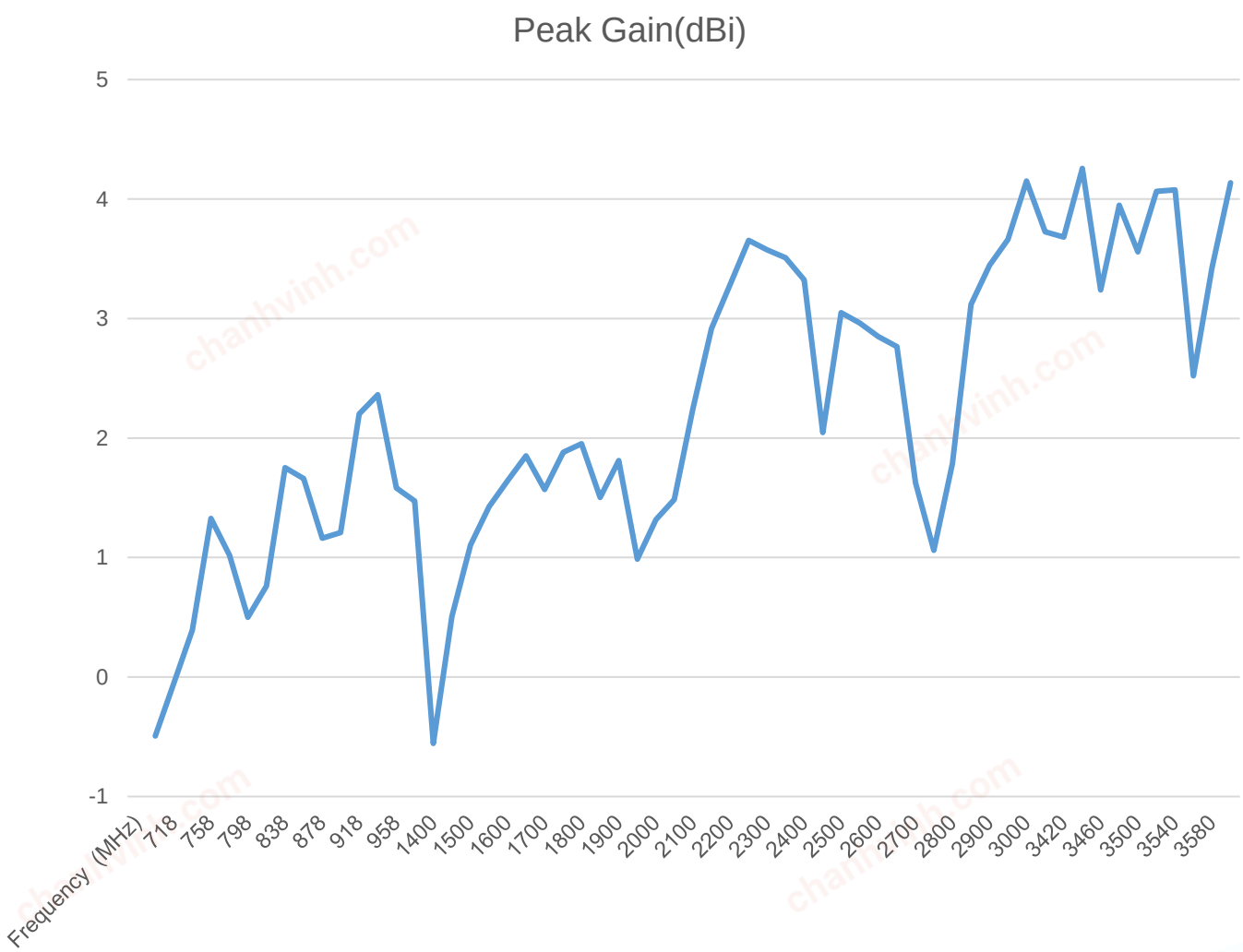
Description: LTE 698-3600MHz FPC Antenna

Series: Gemini

PART NUMBER: W3907XXXX

CHARTS

Peak Gain



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

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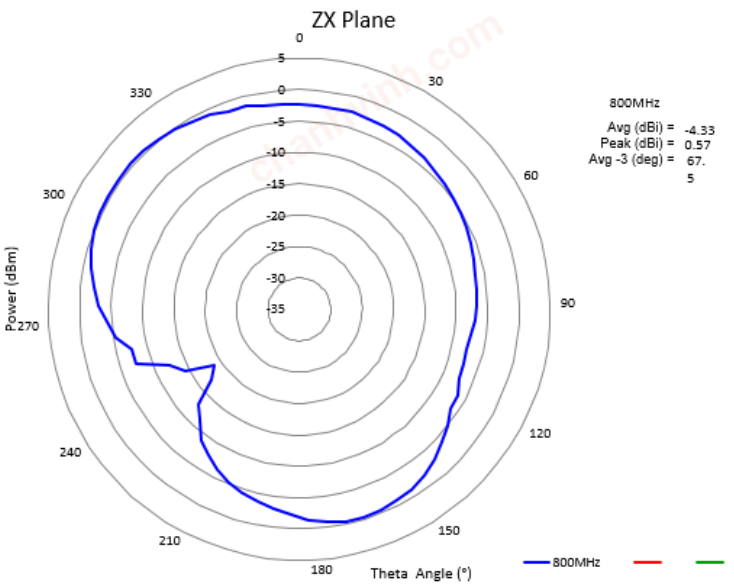
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PART NUMBER: W3907XXXX

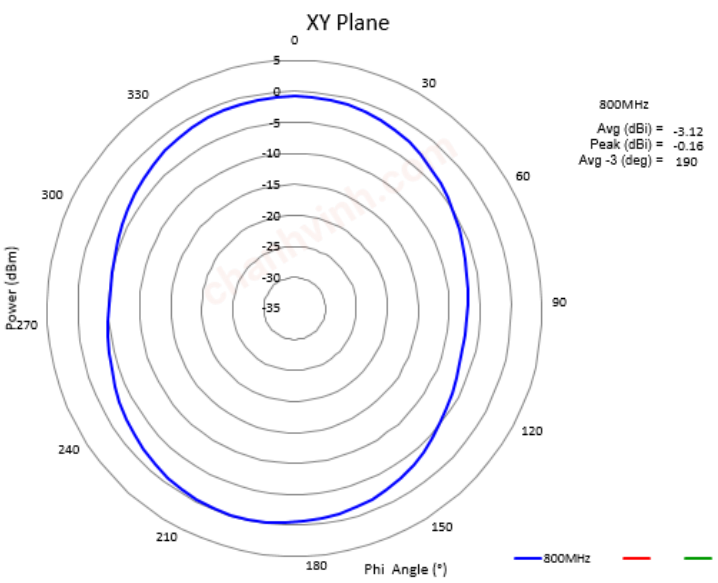
CHARTS

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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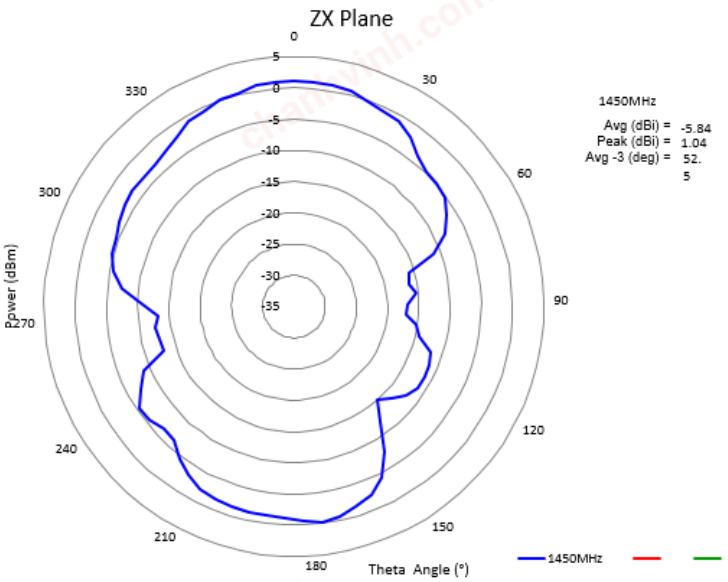
Series: Gemini

PART NUMBER: W3907XXXX

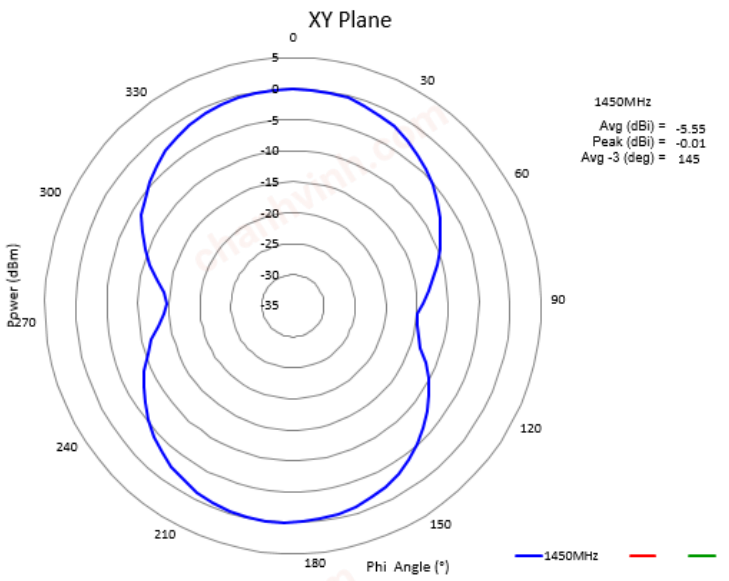
CHARTS

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

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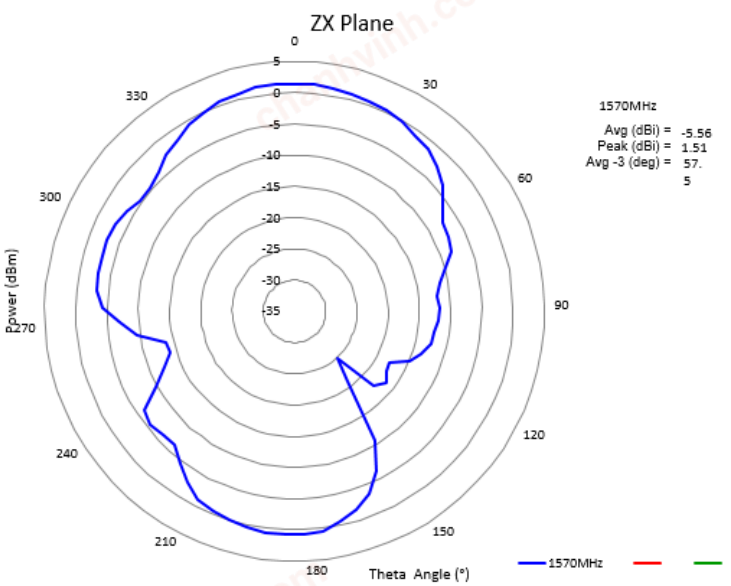
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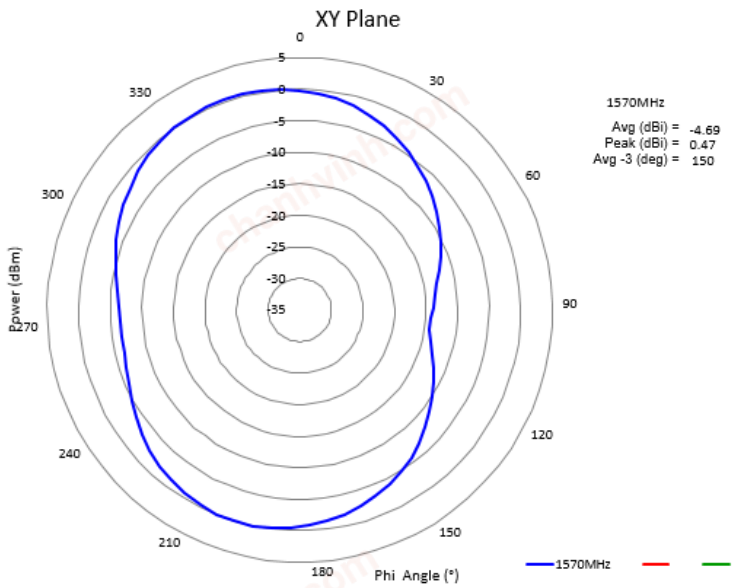
CHARTS

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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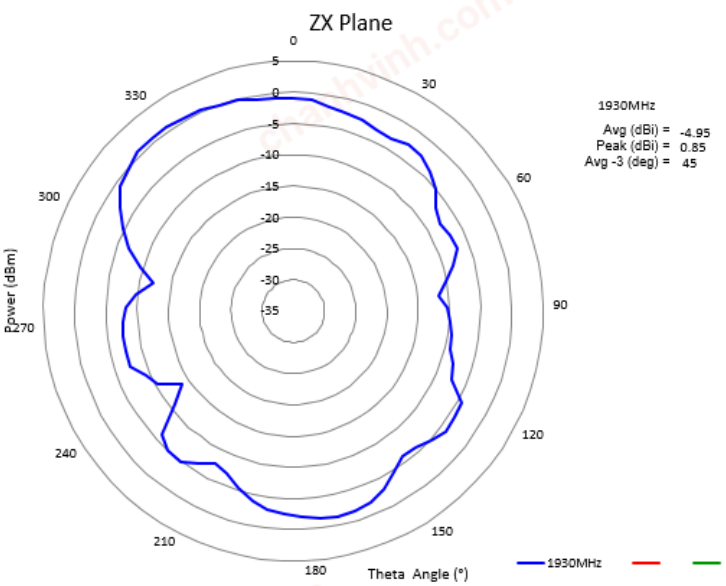
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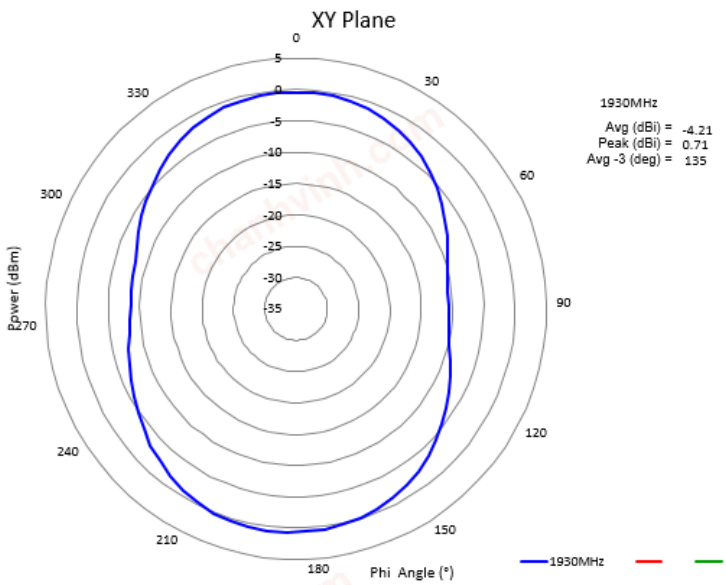
CHARTS

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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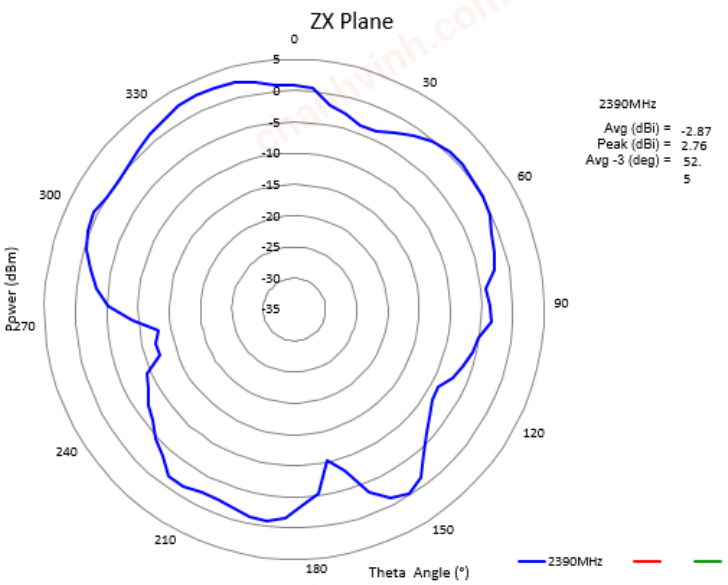
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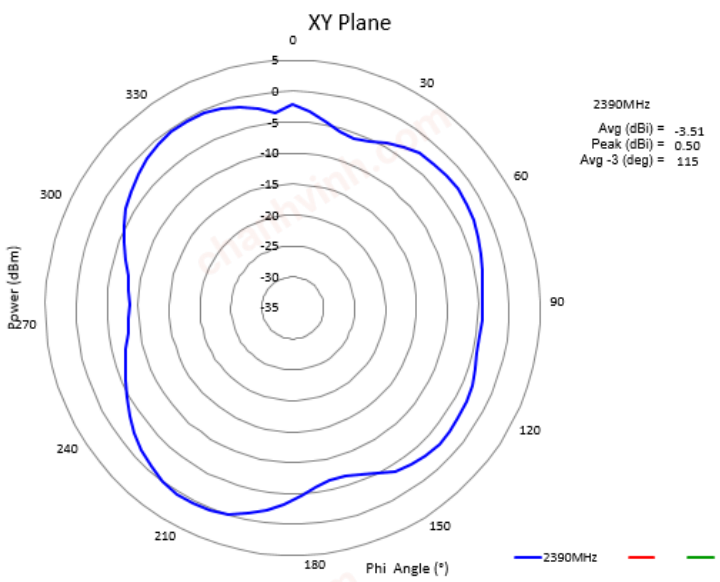
CHARTS

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

Elevation Plane



Horizontal Plane



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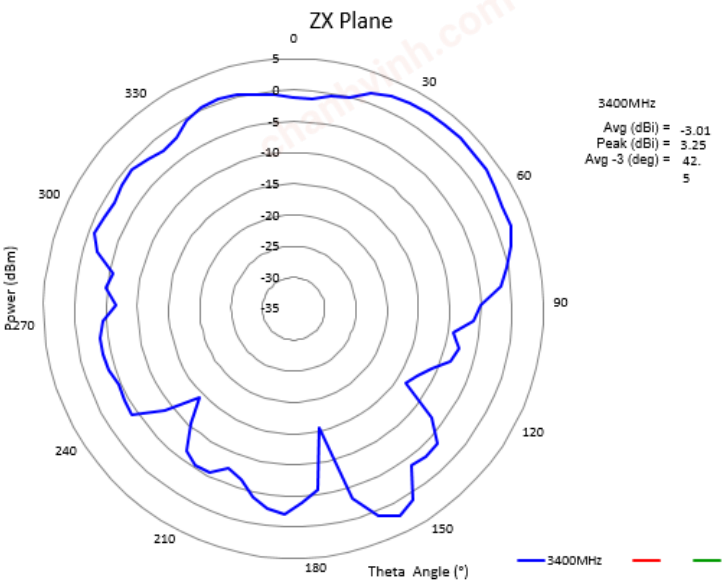
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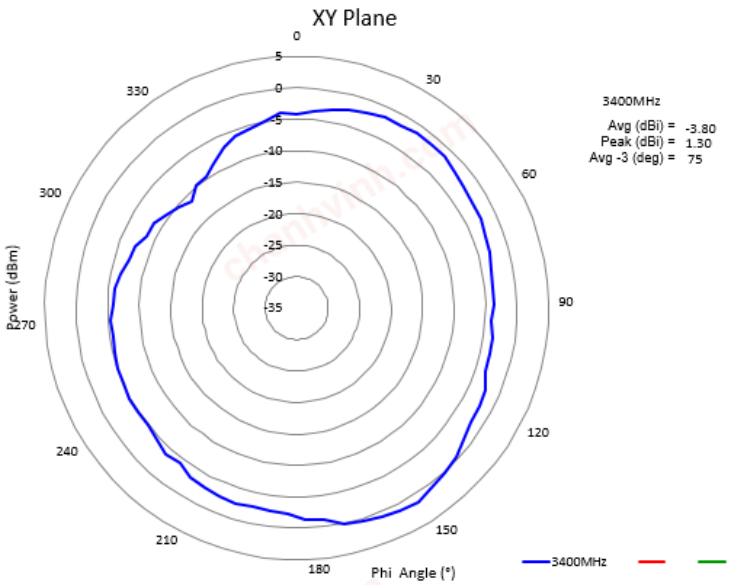
CHARTS

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

Elevation Plane



Horizontal Plane



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Series: Gemini

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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

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