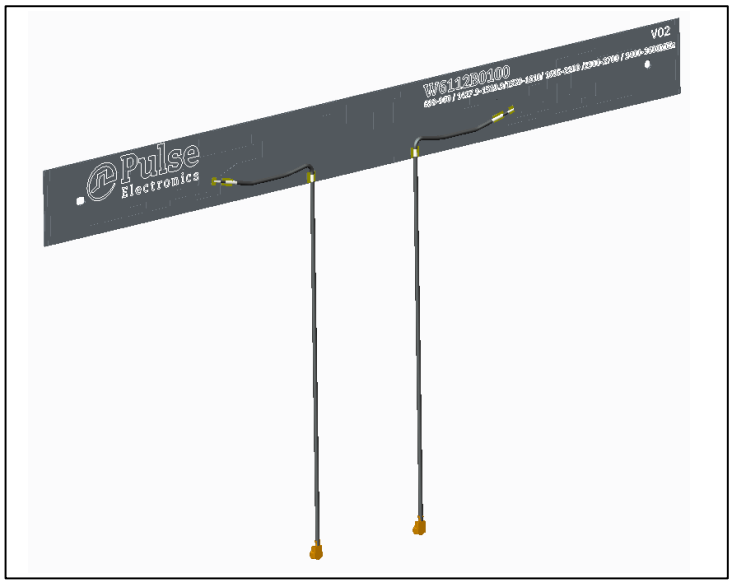
PulseLARSEN Antennas

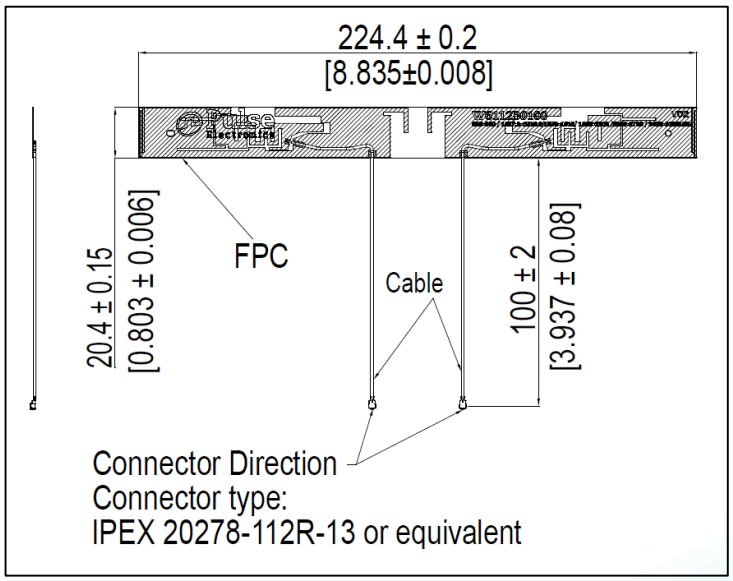
TECHNICAL DATA SHEET

Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini

PART NUMBER: W6112B0100





All dimensions are in mm / inches

Features:

- 2G / 3G / 4G
- Global LTE Bands:
  - B1-B23, B25-B29, B33-B42
  - N.A.; Europe, Asia (incl. Jap.)
- Single device
  - Guaranteed Port-to-Port Isolation
- 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: 1616

RoHS COMPLIANT

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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

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ELECTRICAL SPECIFICATIONS

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(698-960MHz)	-10dB
Isolation(1427.9-1510.9/1559-1610/ 1695-2200/2300-2700/3400-3600MHz)	-13dB
Average Total Efficiency (698-960MHz)	55%
Average Total Efficiency (1427.9-1510.9MHz)	60%
Average Total Efficiency (1559-1610MHz)	60%
Average Total Efficiency (1695-2200MHz)	65%
Average Total Efficiency (2300-2700MHz)	70%
Average Total Efficiency (3400-3600MHz)	65%

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TECHNICAL DATA SHEET

Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini

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ELECTRICAL SPECIFICATIONS

Peak Gain (698-960MHz)	4.3dBi
Peak Gain (1427.9-1510.9MHz)	3.4dBi
Peak Gain (1559-1610MHz)	2.4dBi
Peak Gain (1695-2200MHz)	4.1dBi
Peak Gain (2300-2700MHz)	4.6dBi
Peak Gain (3400-3600MHz)	4.0dBi
Radiation Pattern	Omni
Polarization	Linear
Power withstanding	3W
Connector type	IPEX 20278-112R-13
Cable type	Low loss Φ1.13mm Coaxial Cable
Cable length	100mm

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

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RoHS COMPLIANT

Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini

PART NUMBER: W6112B0100

MECHANICAL SPECIFICATIONS

Color	Black
Weight	2.9 g
Overall Length	8.835 INCHES
Fixing system	Adhesive Tape, 3M6677 PC

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40~85° C

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Series: Gemini

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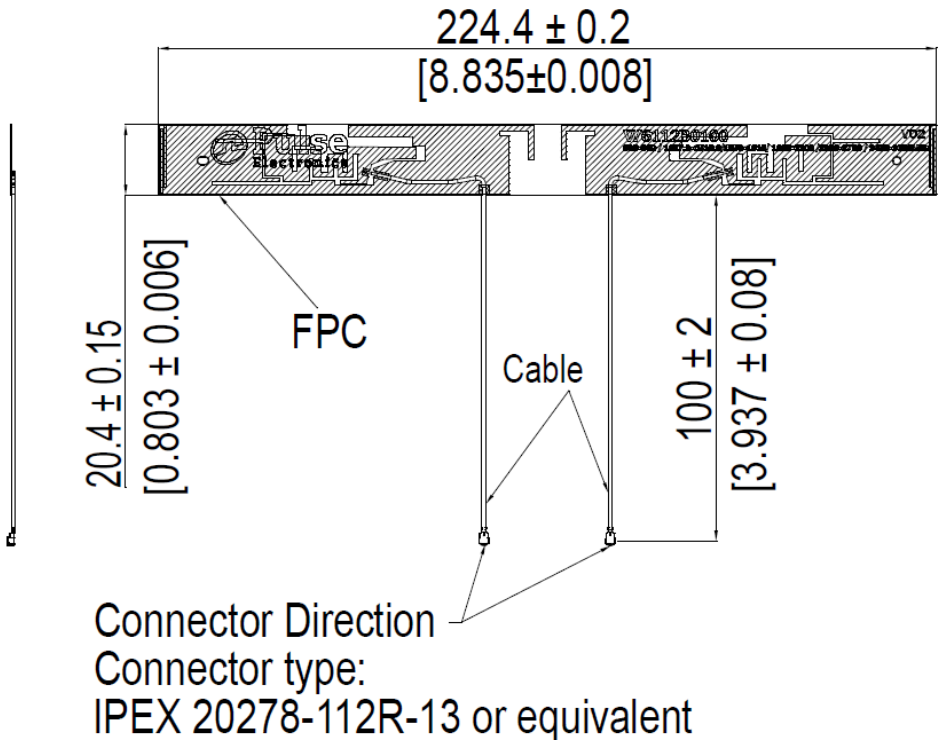
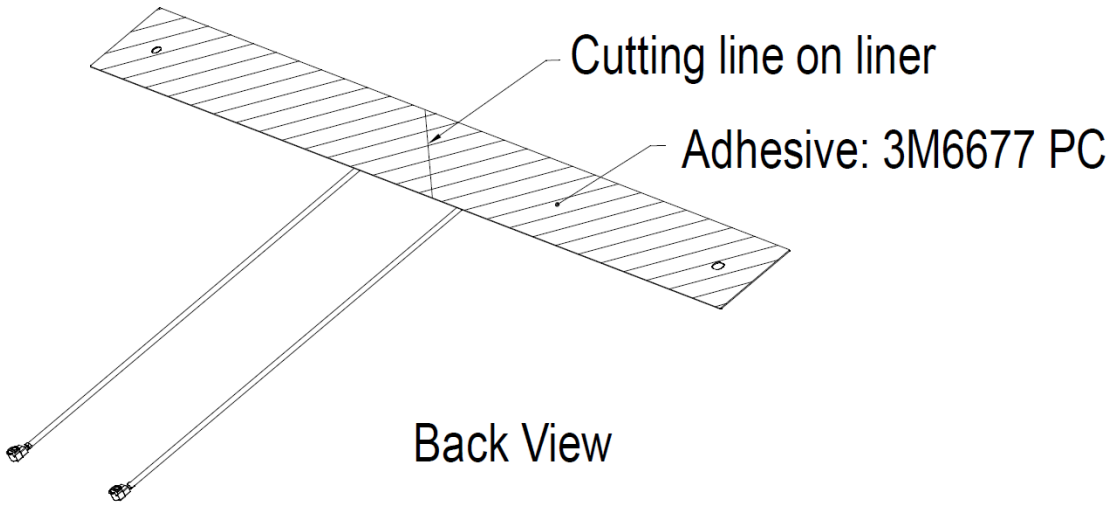
MECHANICAL DRAWING





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RoHS COMPLIANT

Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini

PART NUMBER: W6112B0100

CHARTS

Return Loss



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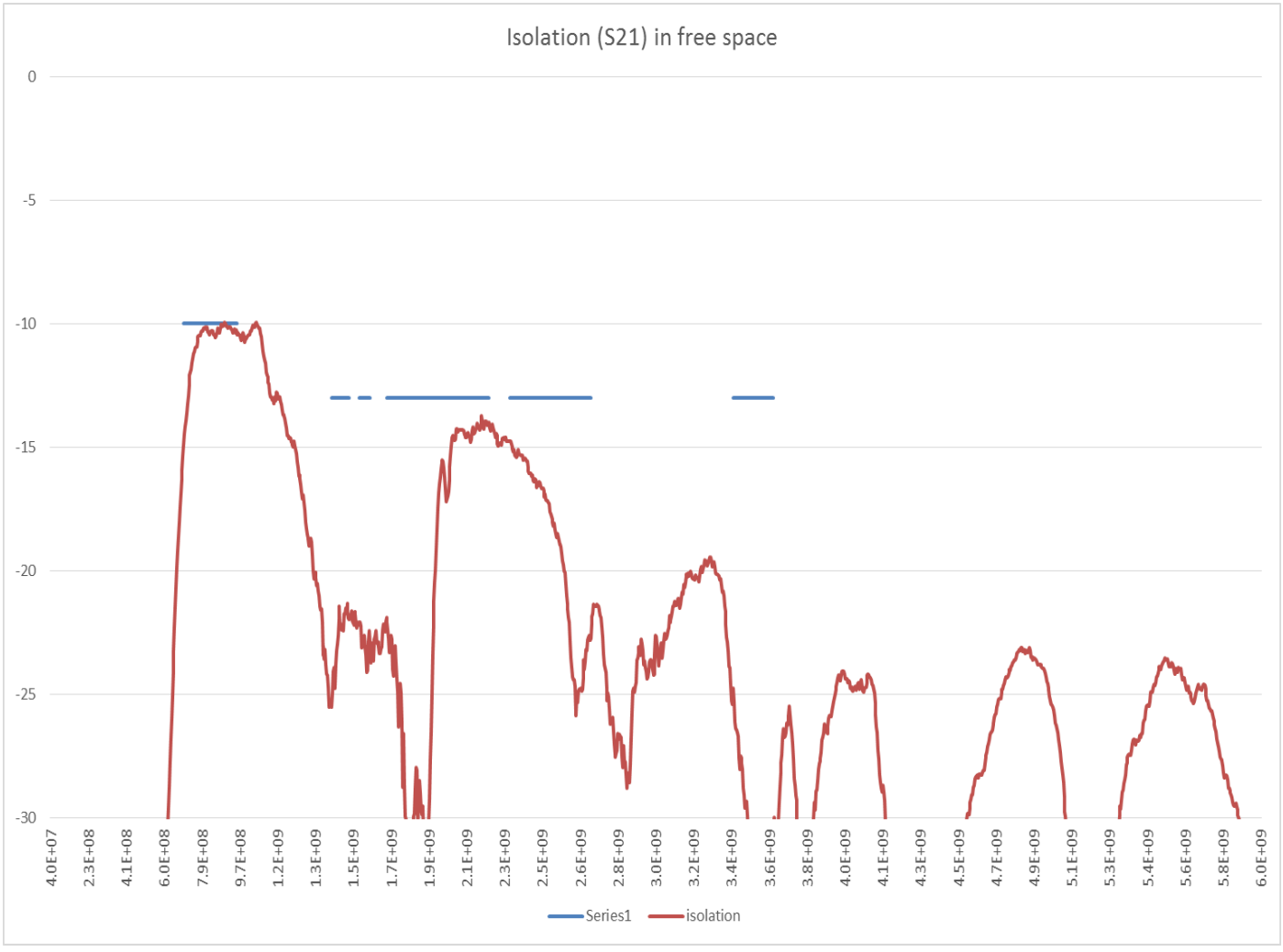
Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini

PART NUMBER: W6112B0100

CHARTS

Isolation



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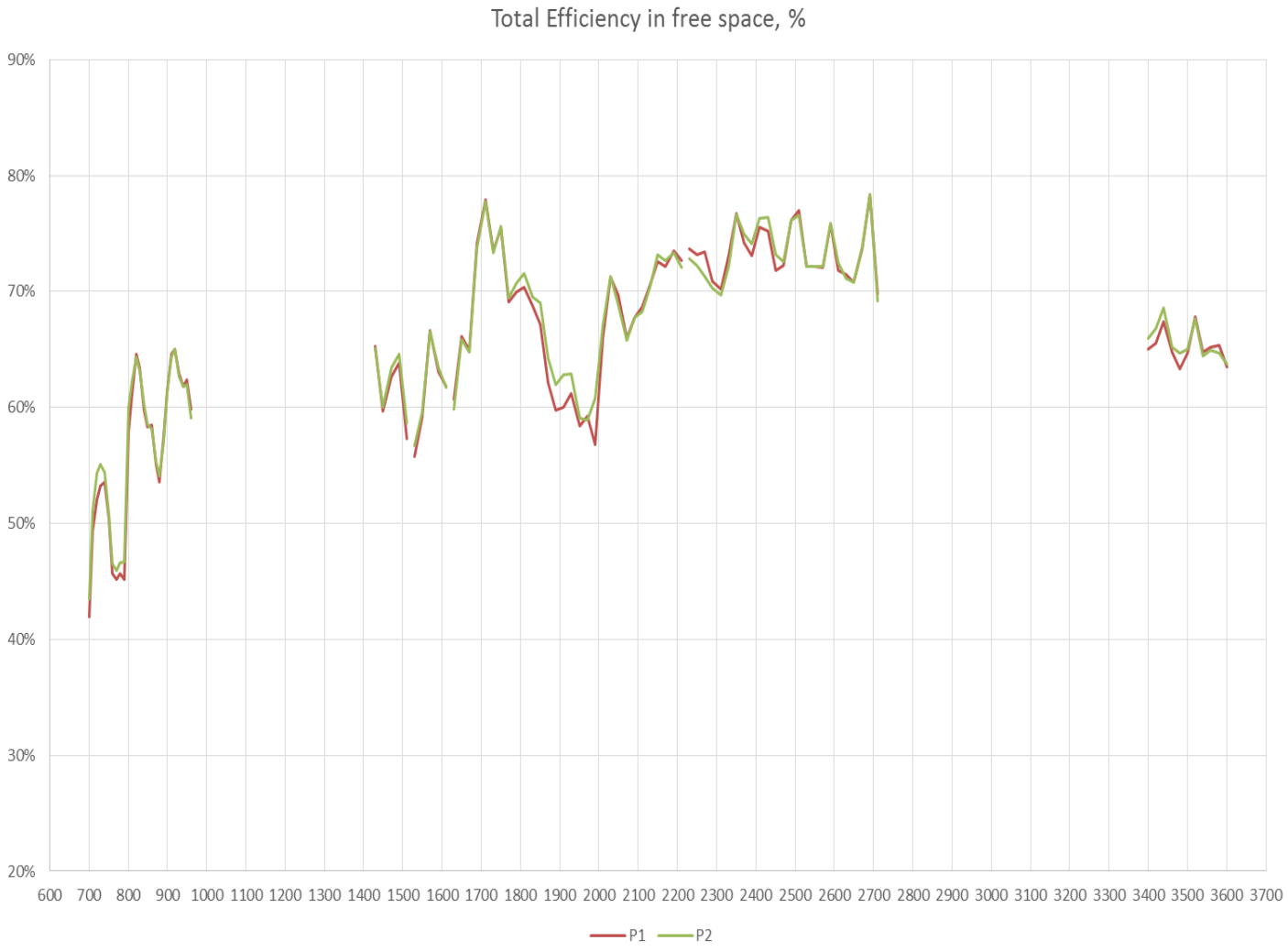
Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini

PART NUMBER: W6112B0100

CHARTS

Efficiency(%)



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RoHS COMPLIANT

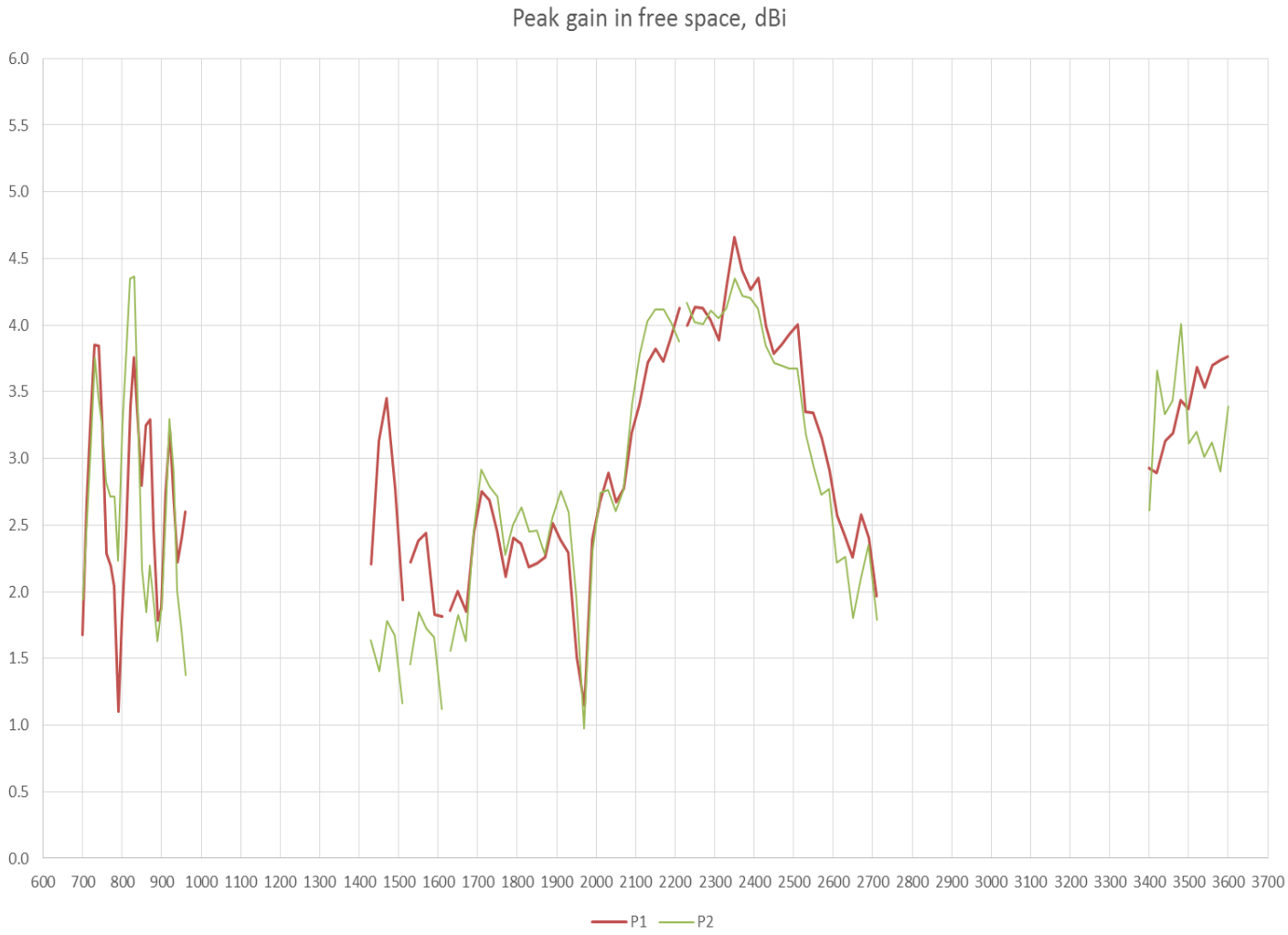
Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini

PART NUMBER: W6112B0100

CHARTS

Peak Gain(dBi)



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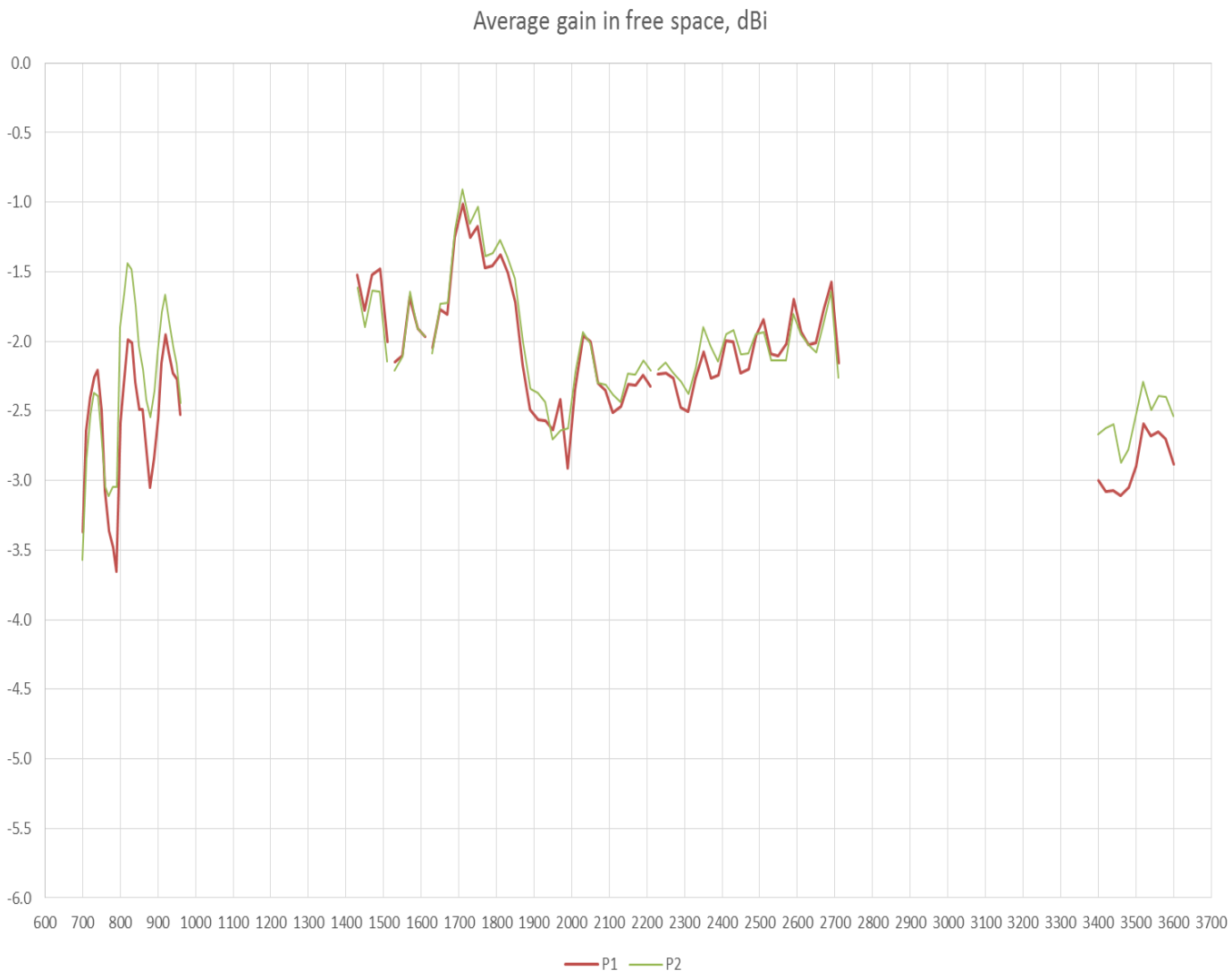
Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini

PART NUMBER: W6112B0100

CHARTS

Average Gain(dBi)



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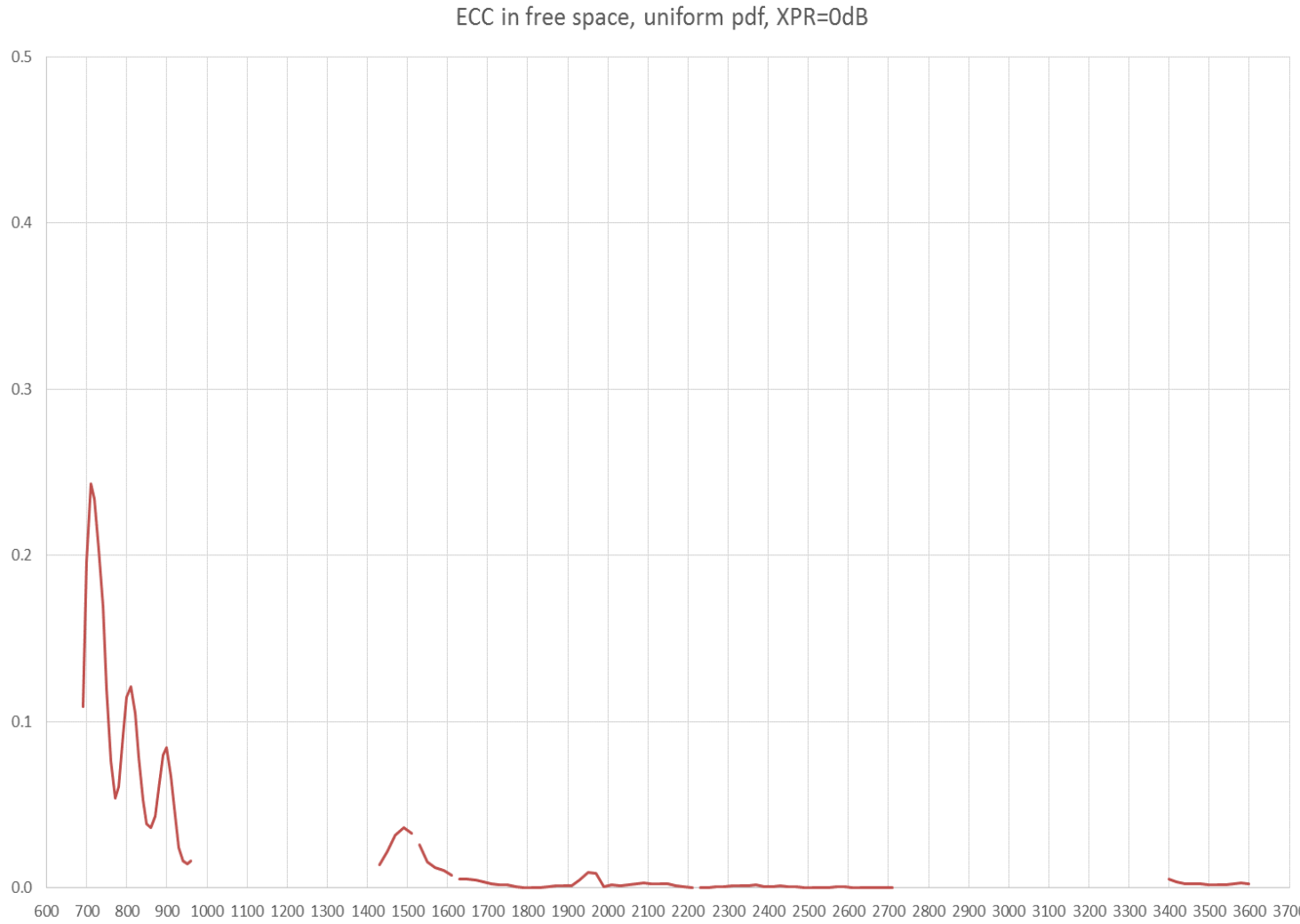
Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini

PART NUMBER: W6112B0100

CHARTS

ECC



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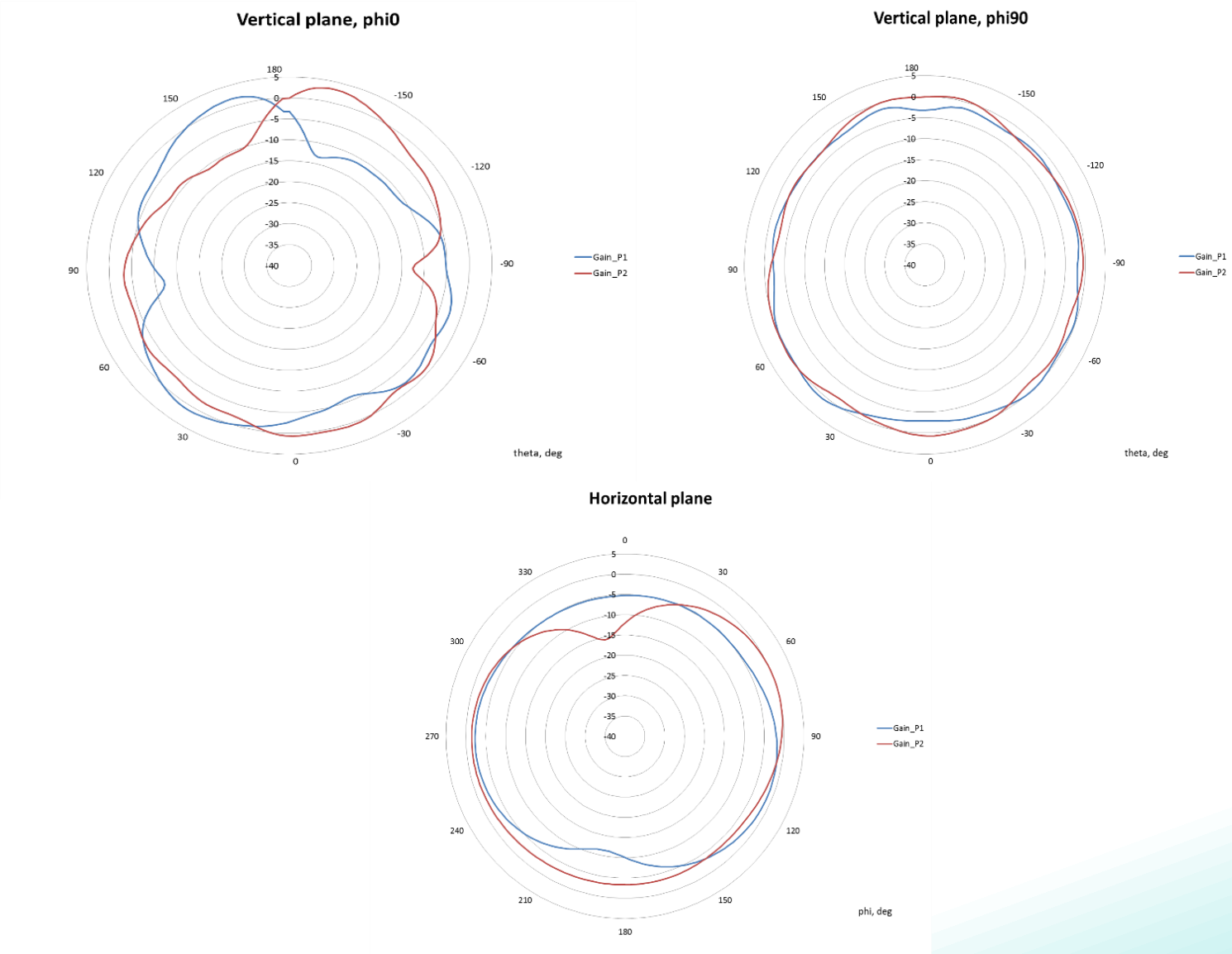
Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini

PART NUMBER: W6112B0100

CHARTS

Typical free space radiation pattern
698-960MHz
(800MHz)



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RoHS COMPLIANT

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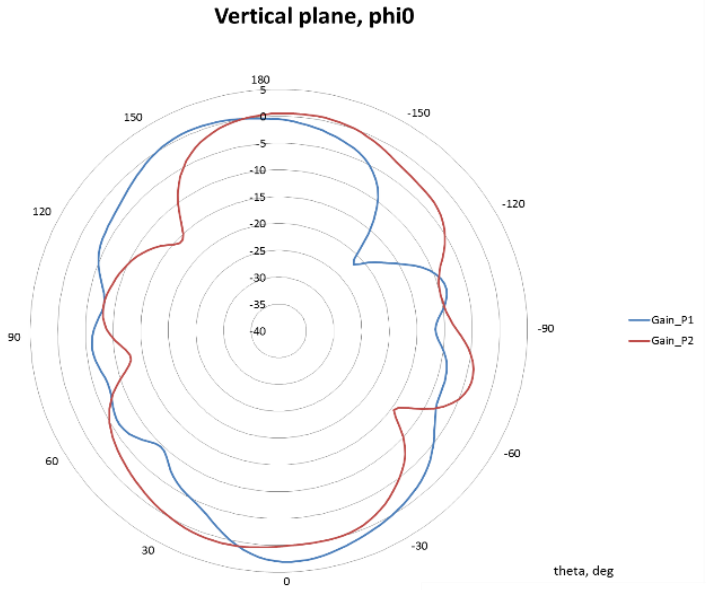
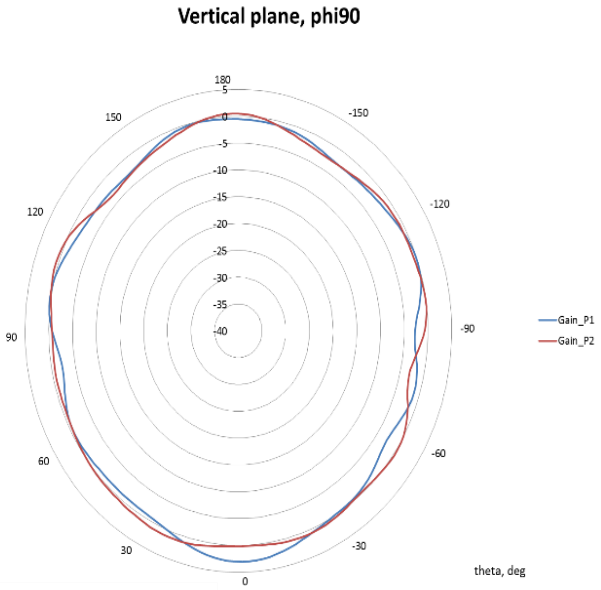
Series: Gemini

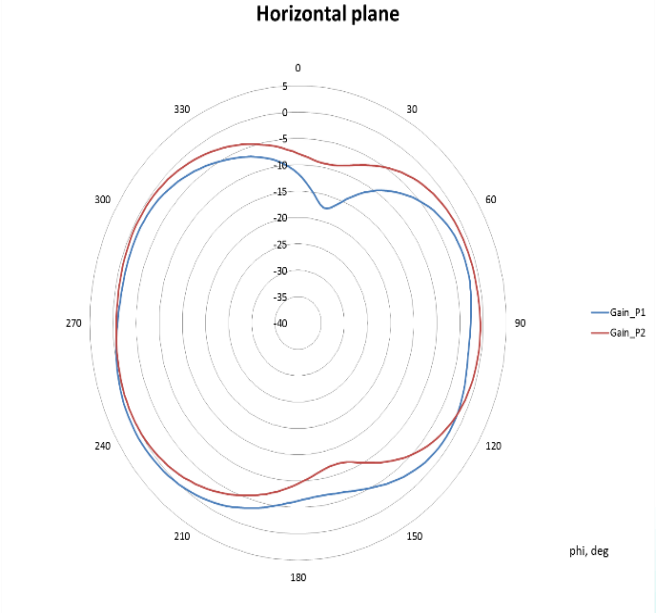
PART NUMBER: W6112B0100

CHARTS

Typical free space radiation pattern
1427.9-1510.9MHz
(1450MHz）







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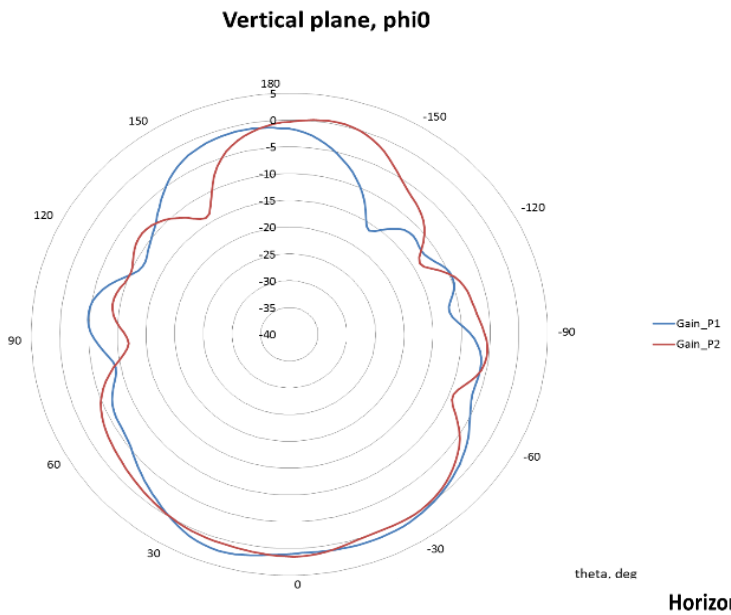
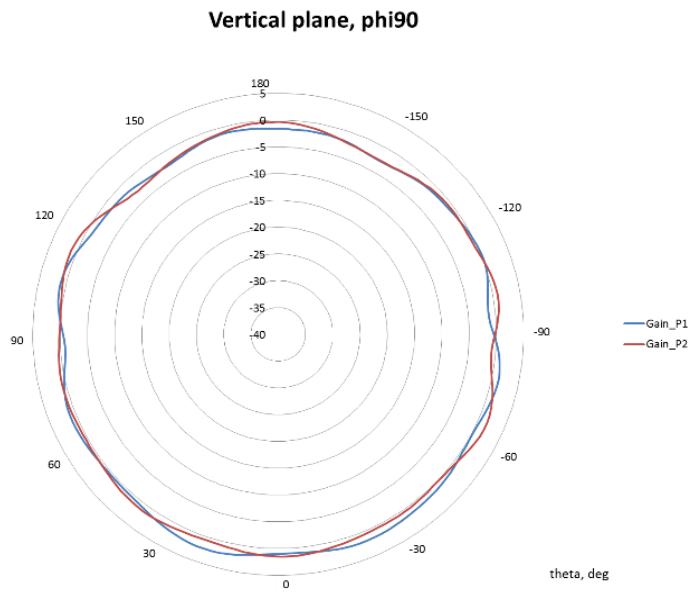
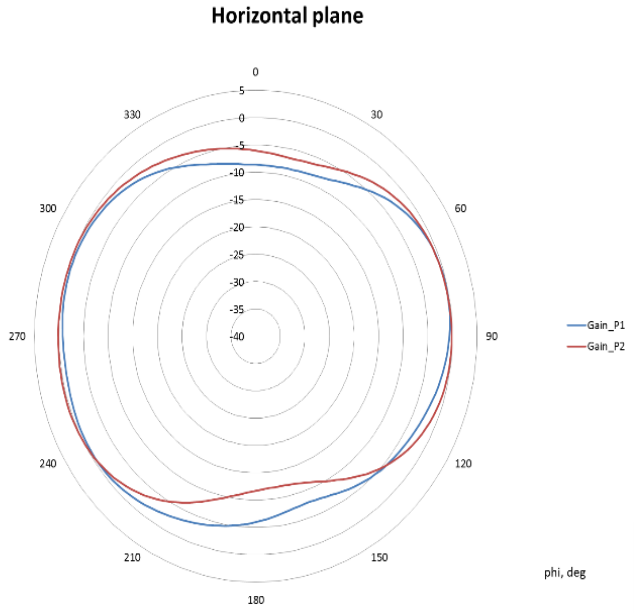
CHARTS

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







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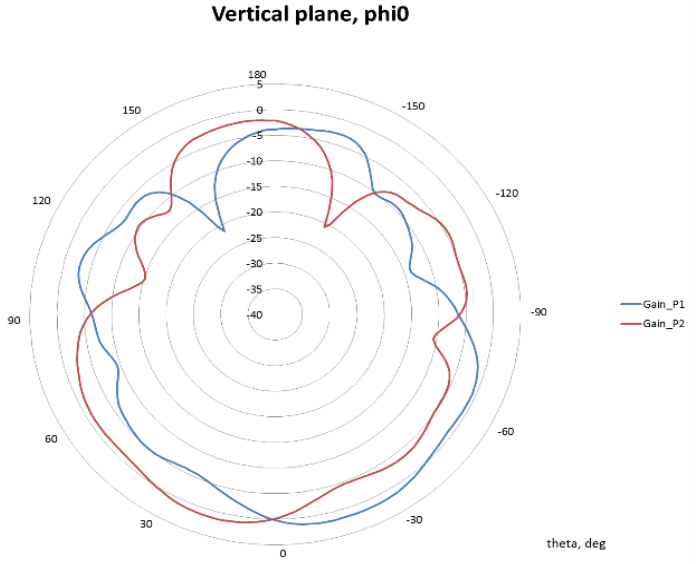
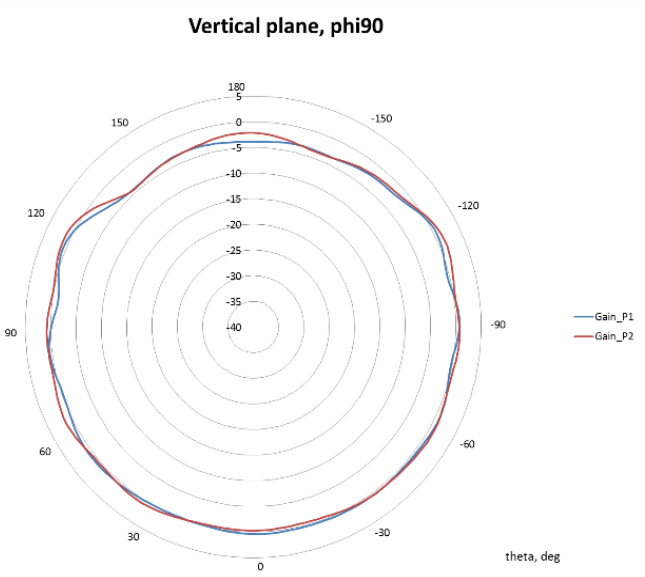
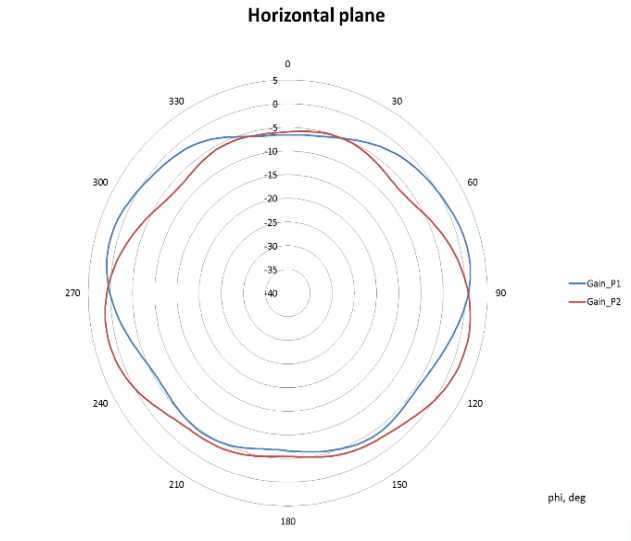
CHARTS

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







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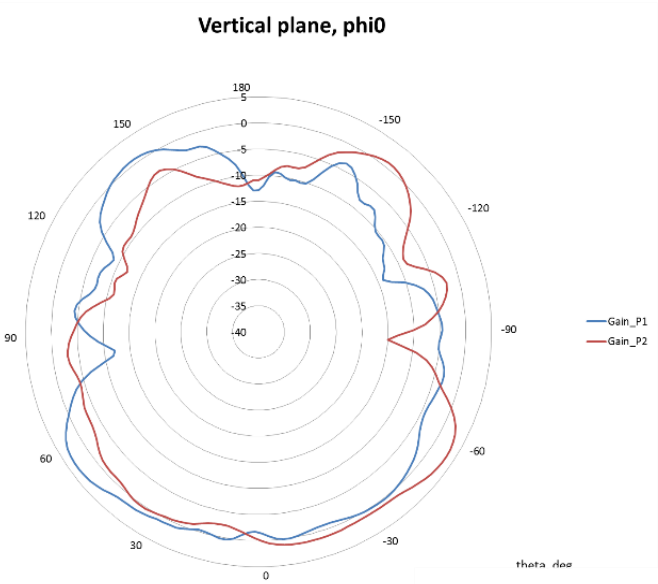
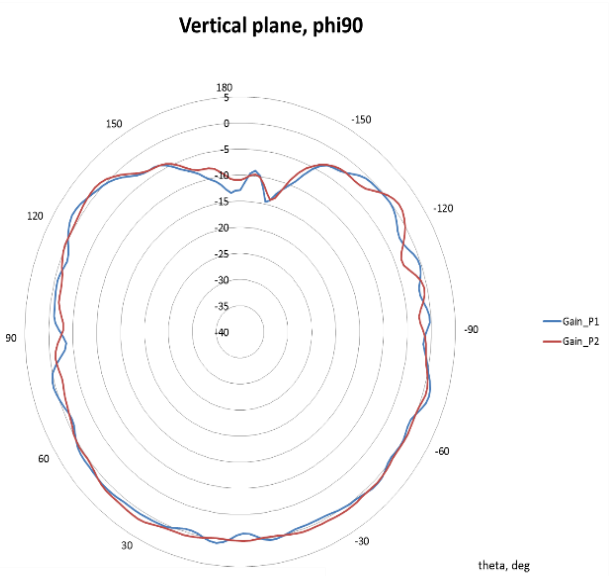
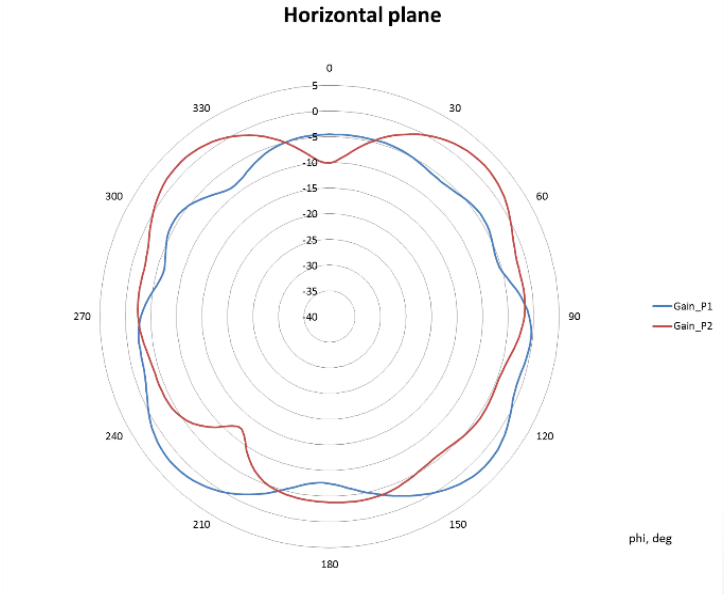
CHARTS

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







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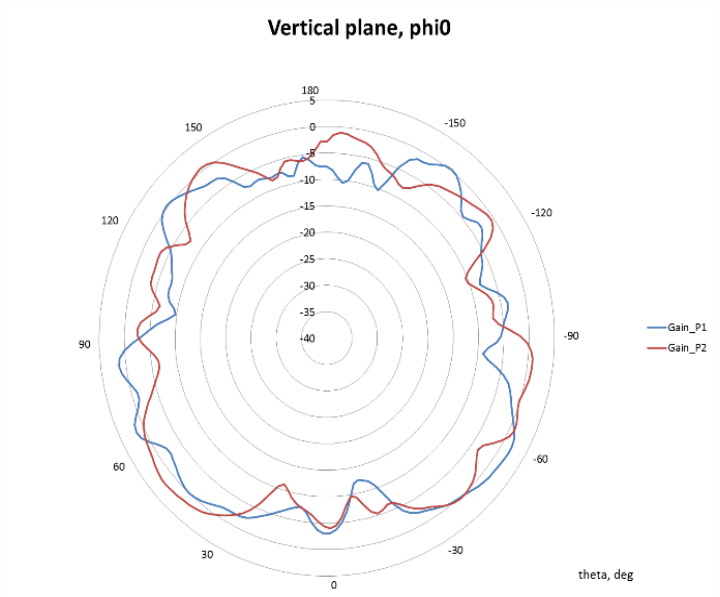
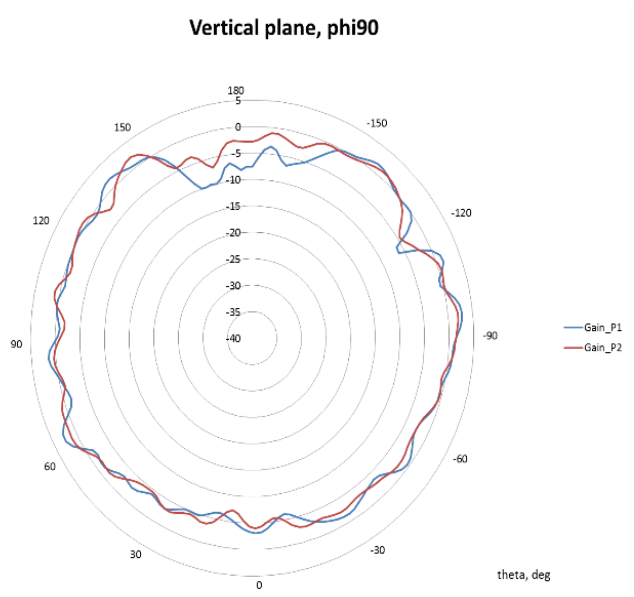
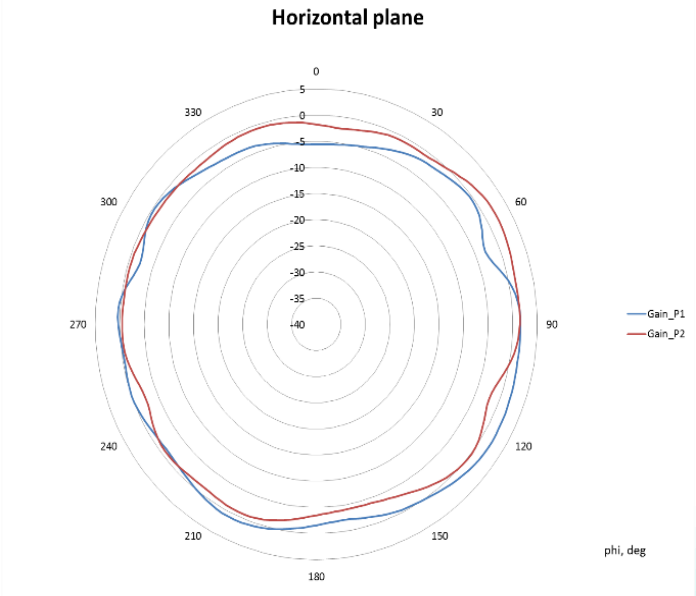
PART NUMBER: W6112B0100

CHARTS

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







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