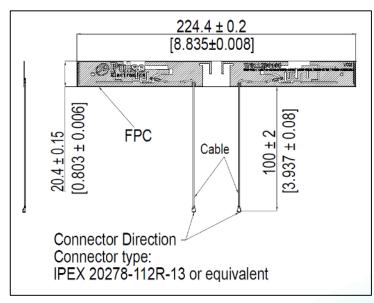


Description: 2x2 MIMO LTE FPC ANTENNA

PART NUMBER: W6112B0100

Series: Gemini





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

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

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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: 2x2 MIMO LTE FPC ANTENNA

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ELECTRICAL SPECIFICATIONS

Frequency	698-960/1427.9-1510.9/15	559-1610/
	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%



Description: 2x2 MIMO LTE FPC ANTENNA

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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



Description: 2x2 MIMO LTE FPC ANTENNA

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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



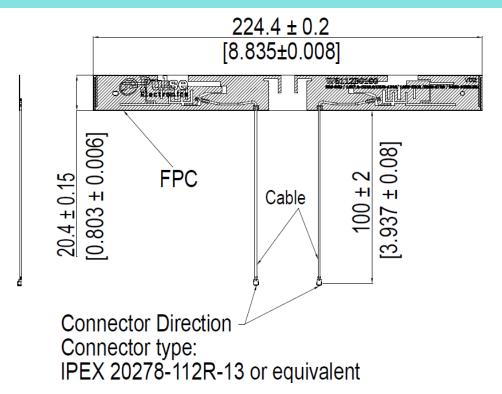


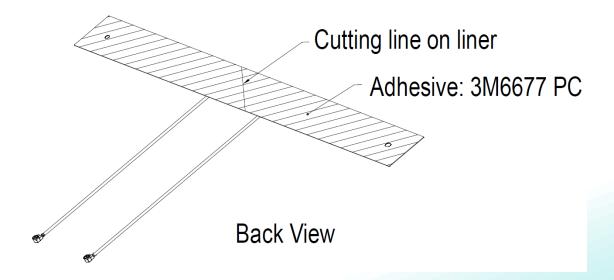


Description: 2x2 MIMO LTE FPC ANTENNA

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MECHANICAL DRAWING







Description: 2x2 MIMO LTE FPC ANTENNA

PART NUMBER: W6112B0100

Series: Gemini

CHARTS

Return Loss







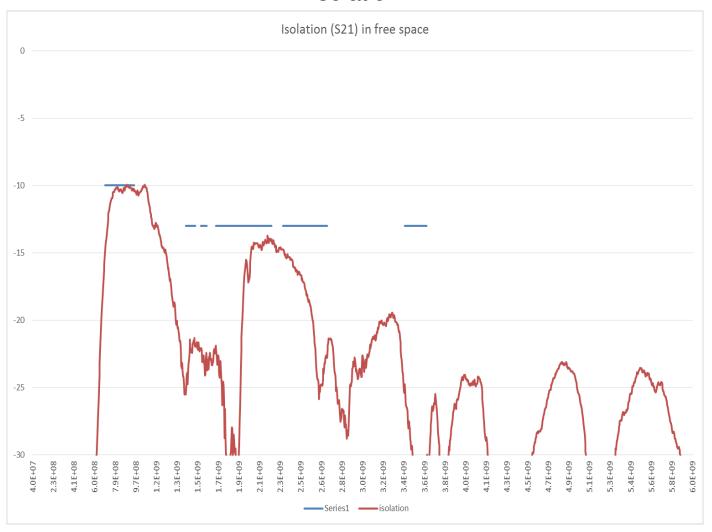


Description: 2x2 MIMO LTE FPC ANTENNA

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PART NUMBER: W6112B0100

CHARTS

Isolation







Description: 2x2 MIMO LTE FPC ANTENNA

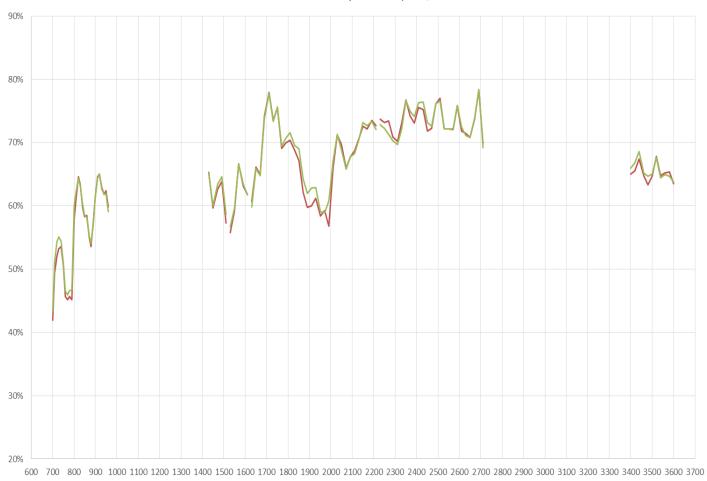
PART NUMBER: W6112B0100

Series: Gemini

CHARTS

Efficiency(%)

Total Efficiency in free space, %



—P1 ——P2





Description: 2x2 MIMO LTE FPC ANTENNA

PART NUMBER: W6112B0100

Series: Gemini

CHARTS

Peak Gain(dBi)

Peak gain in free space, dBi



—— P1 —— P2





TECHNICAL DATA SHEET

Description: 2x2 MIMO LTE FPC ANTENNA

PART NUMBER: W6112B0100

CHARTS

Average Gain(dBi)

Average gain in free space, dBi



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TECHNICAL DATA SHEET

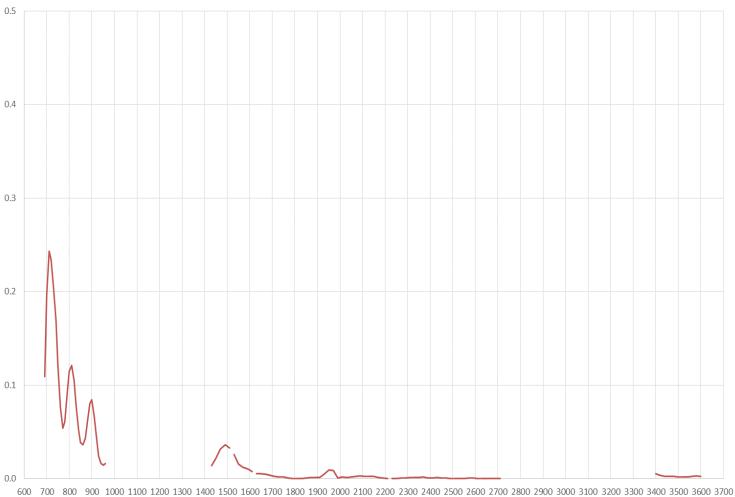
Description: 2x2 MIMO LTE FPC ANTENNA

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CHARTS

ECC

ECC in free space, uniform pdf, XPR=0dB







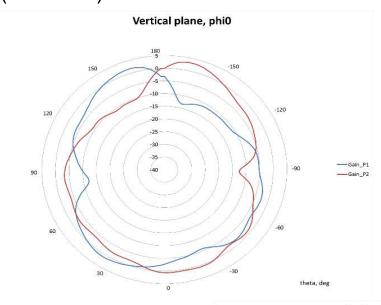
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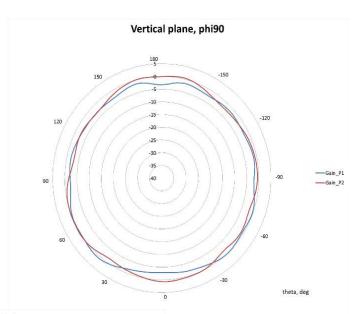
PART NUMBER: W6112B0100

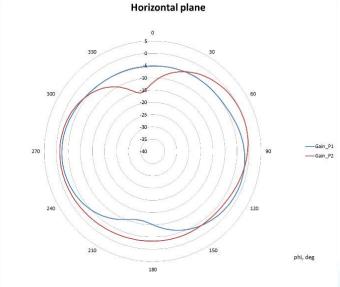
Series: Gemini

CHARTS

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









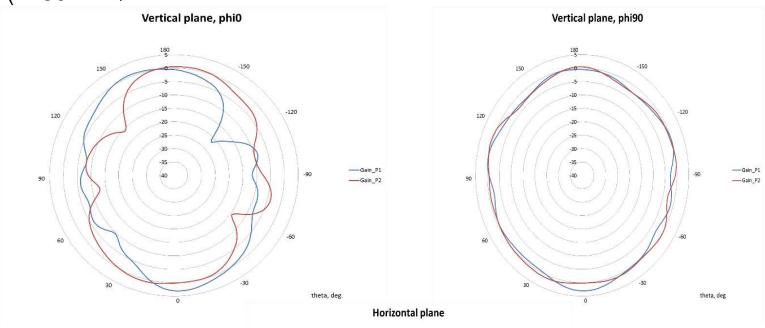
TECHNICAL DATA SHEET

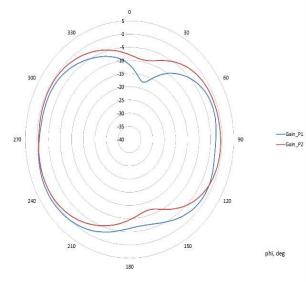
Description: 2x2 MIMO LTE FPC ANTENNA

PART NUMBER: W6112B0100

CHARTS

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









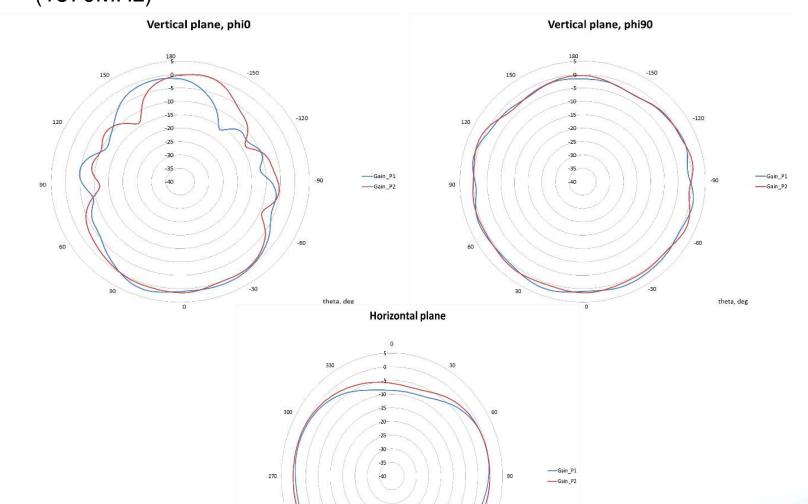
TECHNICAL DATA SHEET

Description: 2x2 MIMO LTE FPC ANTENNA

PART NUMBER: W6112B0100

CHARTS

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







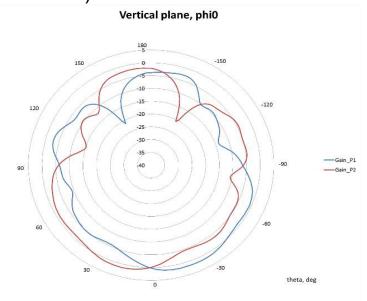


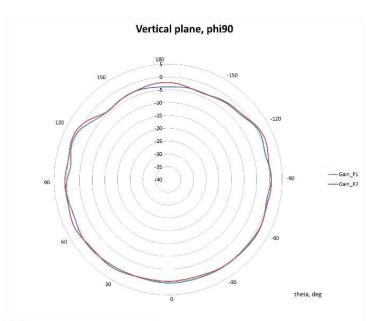
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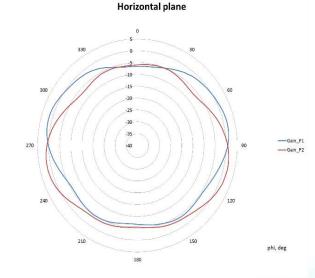
Series: Gemini
PART NUMBER: W6112B0100

CHARTS

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







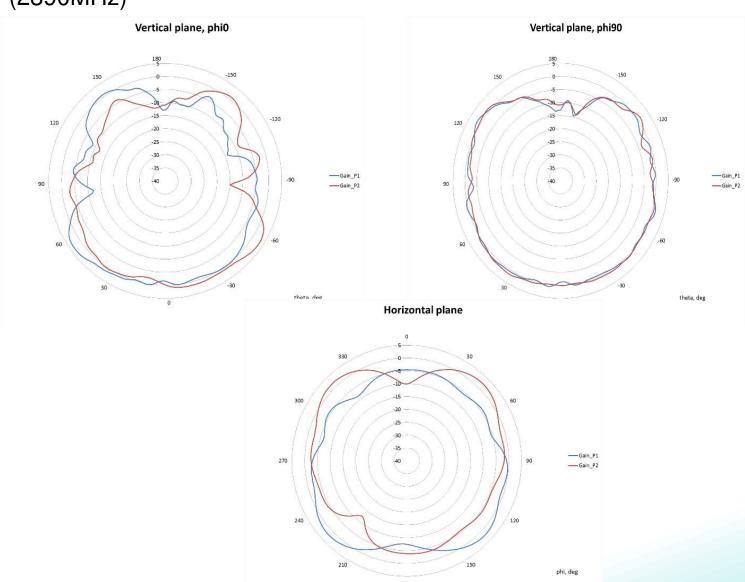


Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini
PART NUMBER: W6112B0100

CHARTS

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



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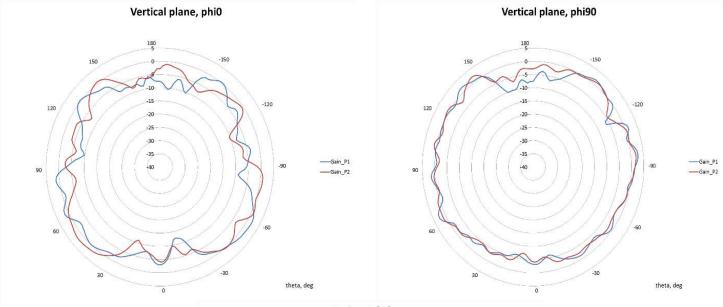
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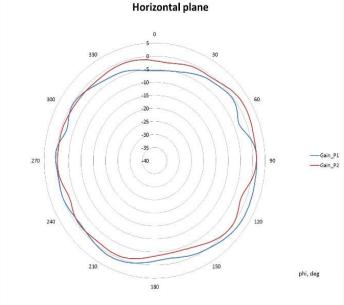
Series: Gemini

PART NUMBER: W6112B0100

CHARTS

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





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