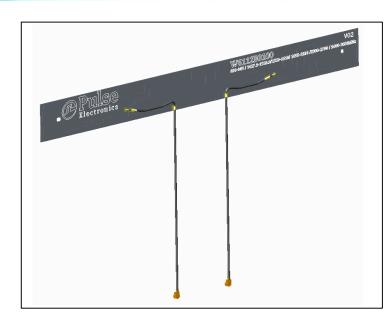
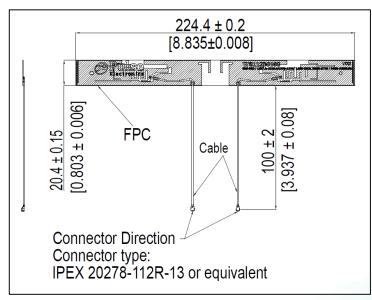


Description: 2x2 MIMO LTE FPC ANTENNA

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

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

Series: Gemini

PART NUMBER: W6112B0100

ELECTRICAL SPECIFICATIONS

Frequency	698-960/1427.9-1510.9/15	59-1610/
	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

Series: Gemini

PART NUMBER: W6112B0100

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

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

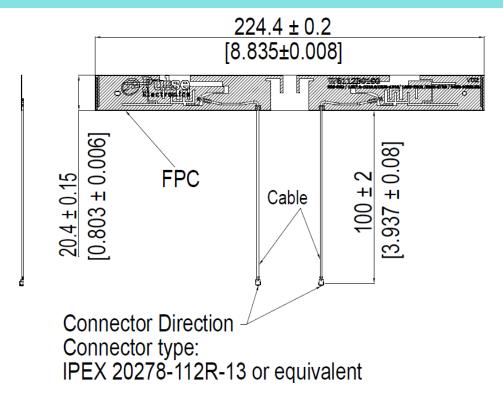


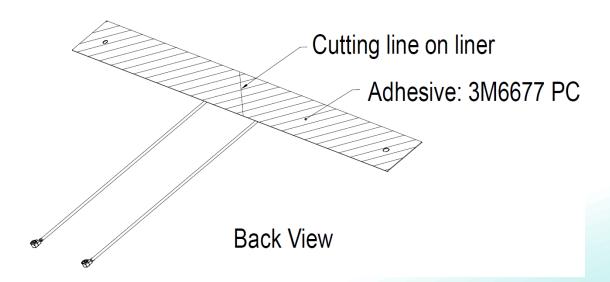


Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini
PART NUMBER: W6112B0100

MECHANICAL DRAWING







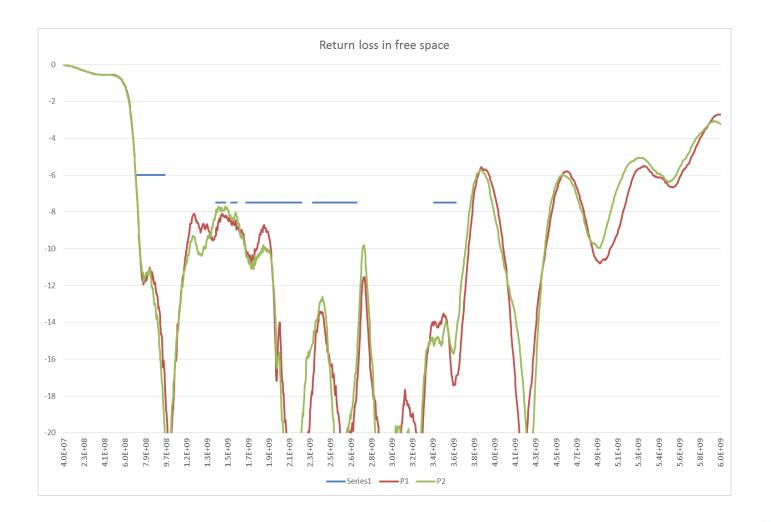
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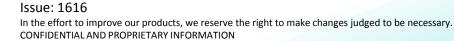
PART NUMBER: W6112B0100

Series: Gemini

CHARTS

Return Loss









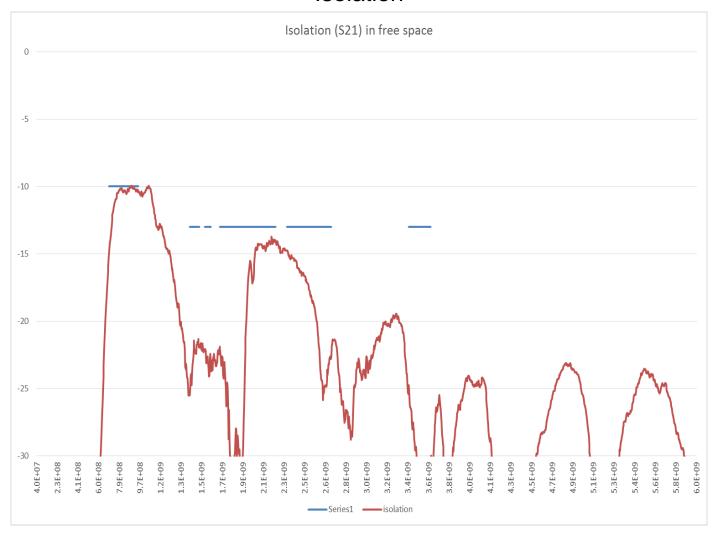
Description: 2x2 MIMO LTE FPC ANTENNA

PART NUMBER: W6112B0100

Series: Gemini

CHARTS

Isolation









Description: 2x2 MIMO LTE FPC ANTENNA

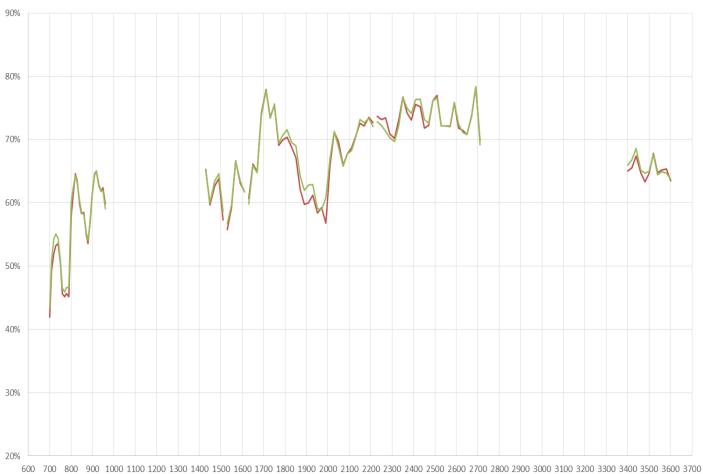
PART NUMBER: W6112B0100

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





Series: Gemini

TECHNICAL DATA SHEET

Description: 2x2 MIMO LTE FPC ANTENNA

PART NUMBER: W6112B0100

CHARTS

Average Gain(dBi)

Average gain in free space, dBi



Issue: 1616





Description: 2x2 MIMO LTE FPC ANTENNA

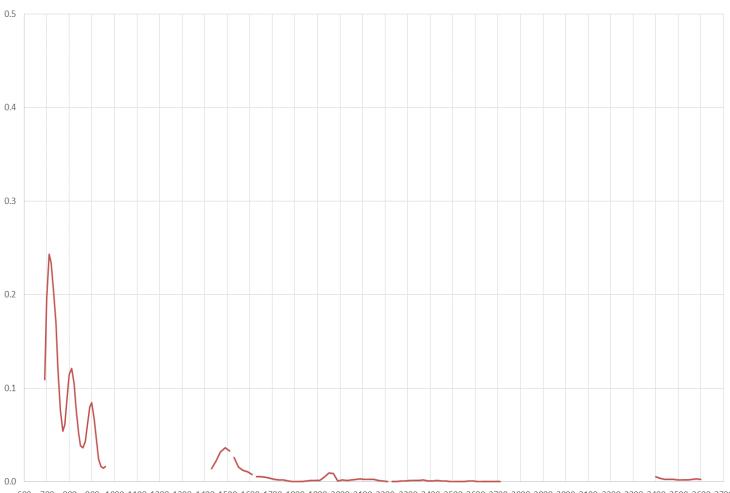
PART NUMBER: W6112B0100

Series: Gemini

CHARTS

ECC

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



 $600 \quad 700 \quad 800 \quad 900 \quad 1000 \quad 1100 \quad 1200 \quad 1300 \quad 1400 \quad 1500 \quad 1600 \quad 1700 \quad 1800 \quad 1900 \quad 2000 \quad 2100 \quad 2200 \quad 2300 \quad 2400 \quad 2500 \quad 2600 \quad 2700 \quad 2800 \quad 2900 \quad 3000 \quad 3100 \quad 3200 \quad 3300 \quad 3400 \quad 3500 \quad 3600 \quad 3700 \quad 3000 \quad 3000$



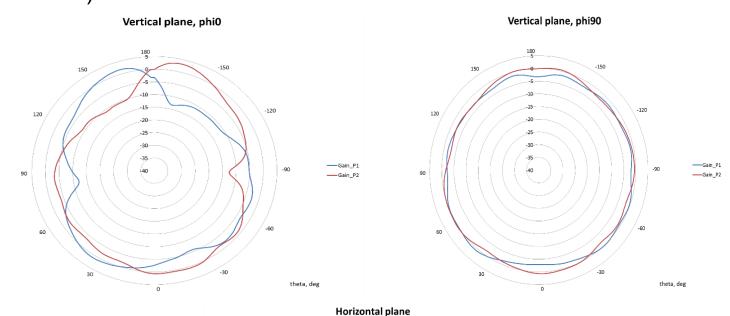


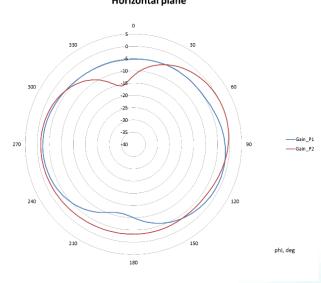
Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini
PART NUMBER: W6112B0100

CHARTS

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







Series: Gemini

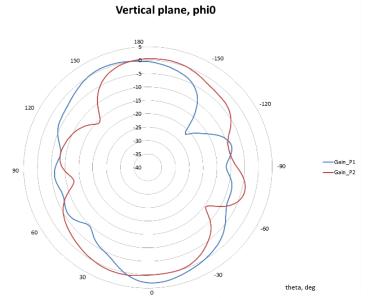
TECHNICAL DATA SHEET

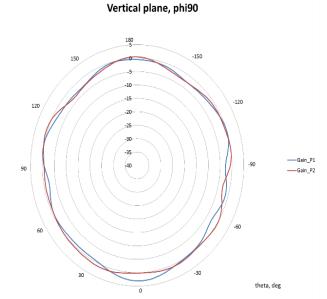
Description: 2x2 MIMO LTE FPC ANTENNA

PART NUMBER: W6112B0100

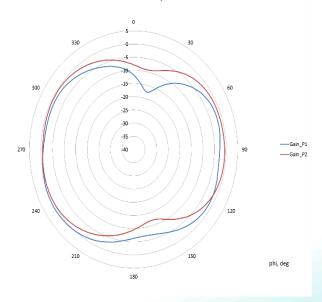
CHARTS

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





Horizontal plane





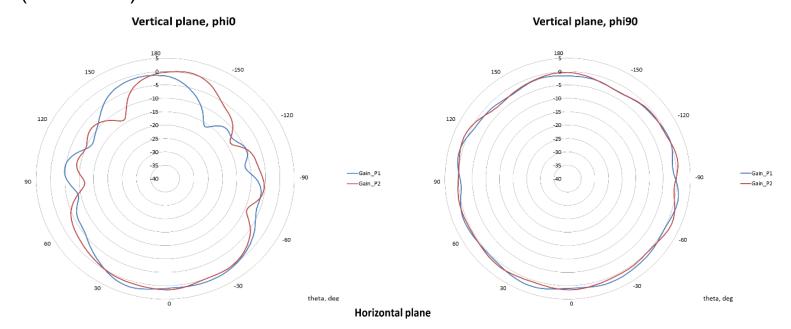
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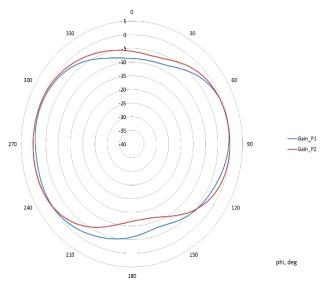
Series: Gemini

PART NUMBER: W6112B0100

CHARTS

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





Issue: 1616



Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini **PART NUMBER: W6112B0100**

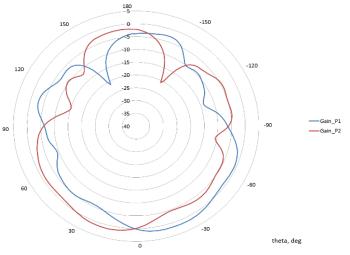
CHARTS

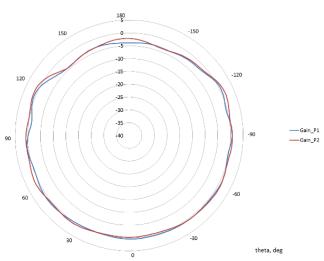
Typical free space radiation pattern 1695-2200MHz (1930MHz)

Vertical plane, phi0

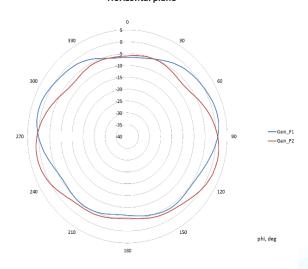


Vertical plane, phi90





Horizontal plane





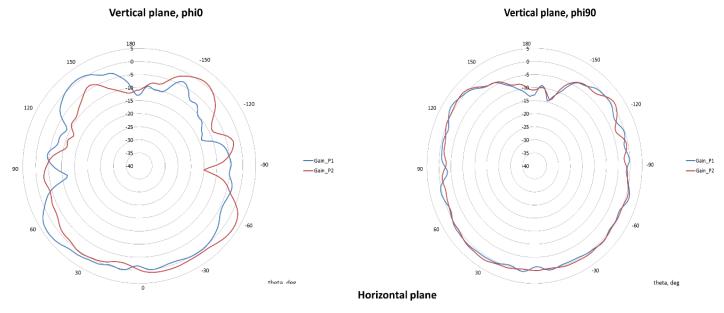
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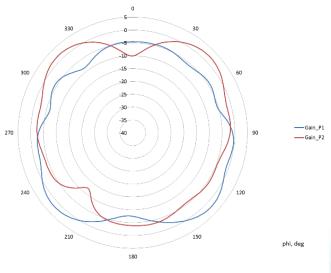
PART NUMBER: W6112B0100

Series: Gemini

CHARTS

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







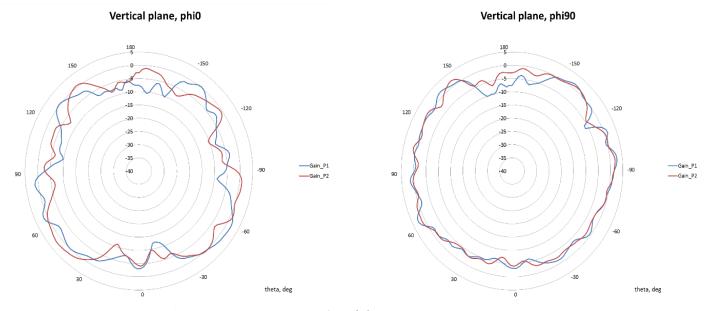
Description: 2x2 MIMO LTE FPC ANTENNA

Series: Gemini

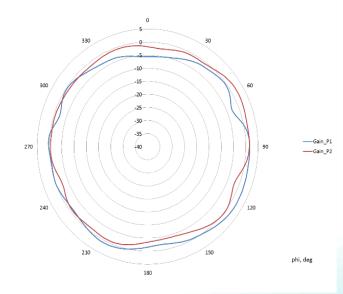
PART NUMBER: W6112B0100

CHARTS

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



Horizontal plane



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