

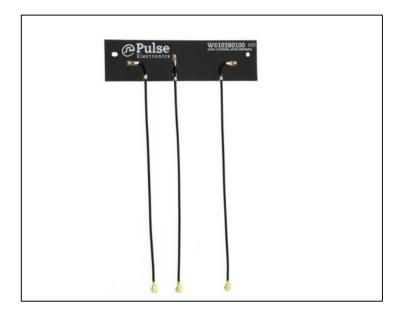


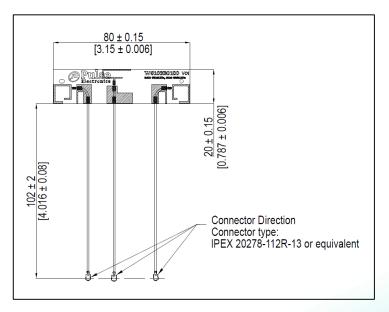
Description: 3x3 MiMo dual band WiFi/BT FPC antenna

# Series: Gemini

## **PART NUMBER: W6103B0100**

**Features:** 





### All dimensions are in mm / inches

### Issue: 1616

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# Applications:

- 802.11a/b/g/n/ac
- Challenging RF environments

WiFi Bluetooth, BLE, ZigBee

One antenna – 3 x dual band

Flexible to fit tight spaces

lengths and connectors

High Efficiency – over 70%

Standard and customized cable

2400-2500MHz, 4900-5900MHz

- IoT including security, video, graphics, bluetooth
- IoT SmartGrid, Meters, Sensor Networks
- Tansportation
- Bluetooth connections
- 2x2, 3x3 MiMo WiFi devices





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# **ELECTRICAL SPECIFICATIONS**

Frequency	2.4-2.5/4.9-5.9 GHz
Nominal Impedance	50 Ω
VSWR	< 2
Max Gain frequency	4.5 +/-1 dBi
Avg Gain frequency	-2 +/-0.5dBi
Efficiency	70%
Radiation Pattern	Omni
Polarization	Linear
Power withstanding	3 W
Connector type	IPEX 20278-112R-13 or equivalent
Cable type	Low loss Φ1.13mm Coaxial Cable
Cable length	100mm

# \* All RF parameters measured on 2mm thick PC plate

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## MECHANICAL SPECIFICATIONS

Color	Black
Weight	1.8 g
Thickness of FPC with adhesive	0.15mm
Overall Length	3.15 INCHES
Fixing system	Adhesive Tape, 3M6677 PC

## **ENVIRONMENTAL SPECIFICATIONS**

**Operating temperature** 

-40~85° C

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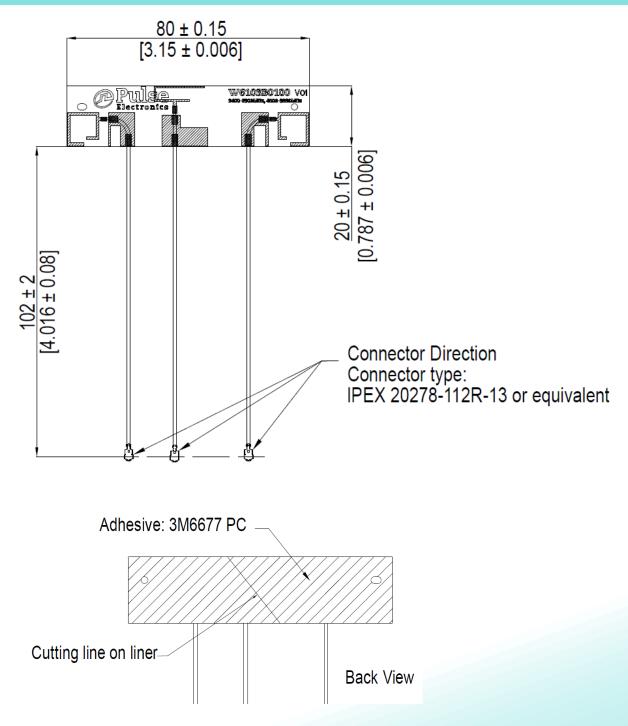


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**MECHANICAL DRAWING** 



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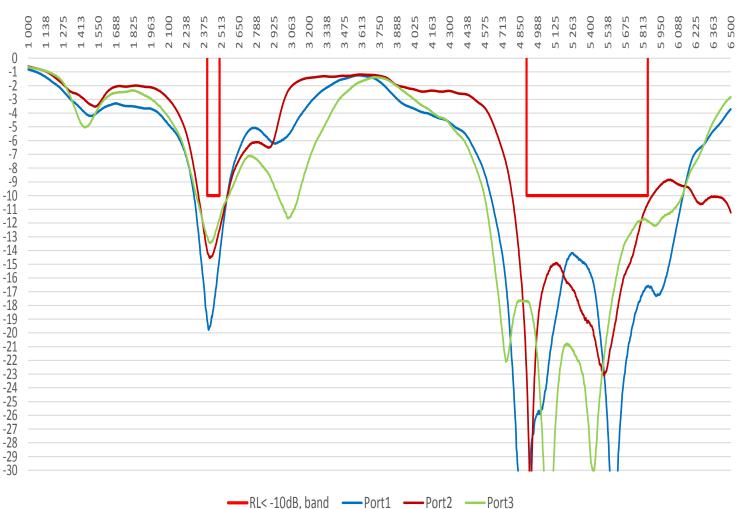
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## CHARTS

**Return Loss** 



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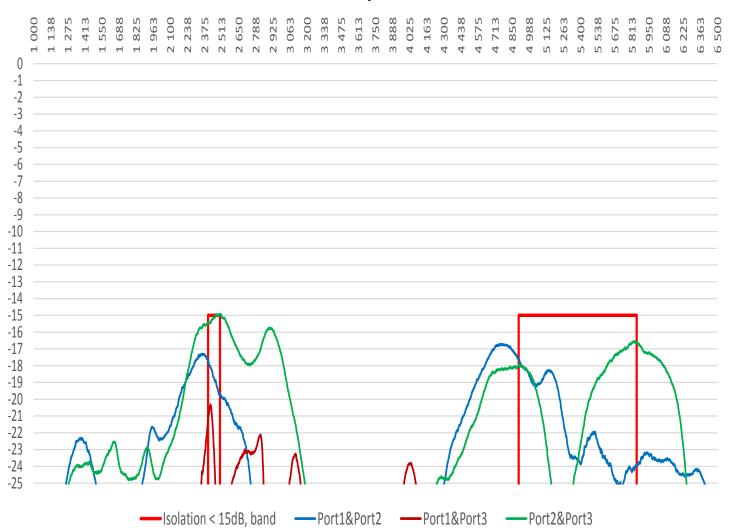
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## CHARTS

# Port to port isolation



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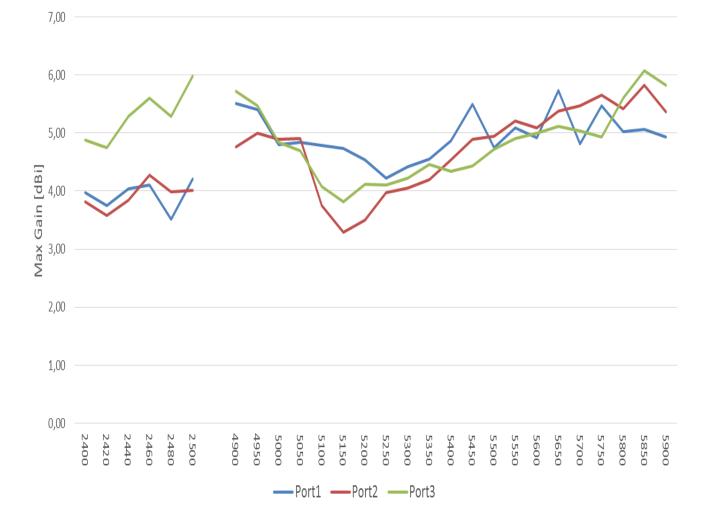
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## CHARTS

Peak Gain(dBi)



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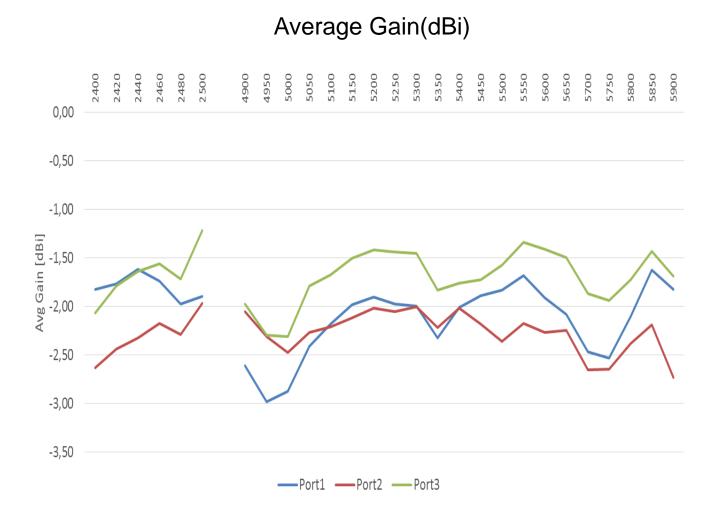


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## CHARTS



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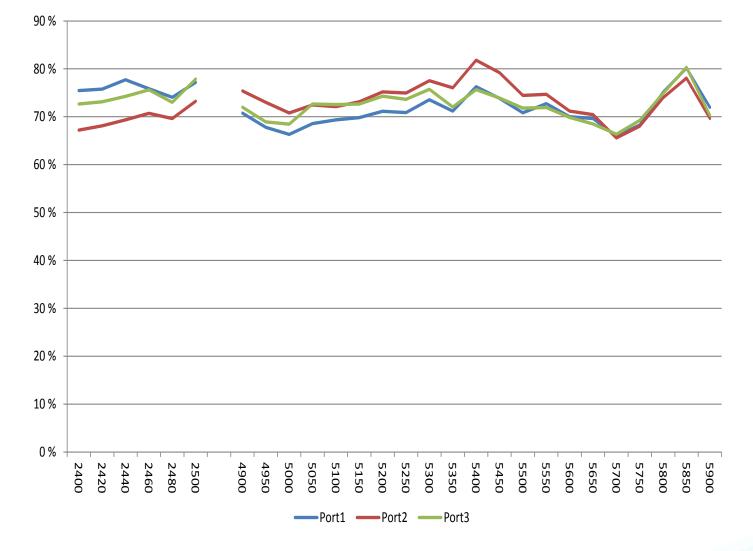
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## CHARTS

Efficiency(%)



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**CHARTS** Typical free space radiation pattern—port1: 2.4-2.5GHz Vertical plane, Phi0 Vertical plane, Phi90 10 30 30 -30 -60 -10 -15 -20 -2400 -2400 -2440 90 -90 -2440 90 -90 -2480 -2500 120 -120 120 -120 150 -150 -150 150 horizontal plane 180 180 330 300 -10 60 -15 -20 2400 270 2440 90 -2500 240 120 210 150 180

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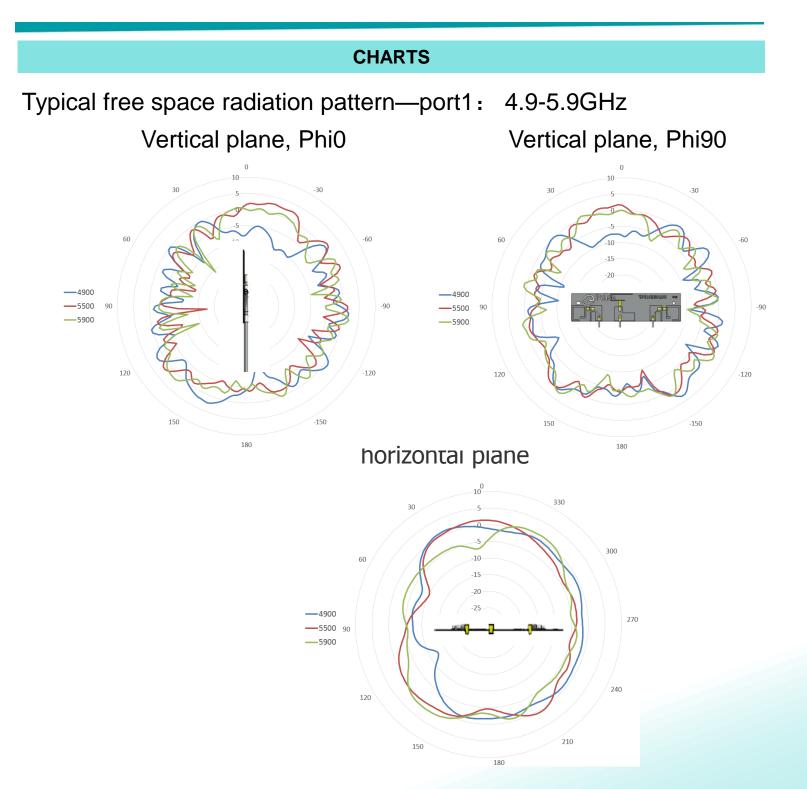




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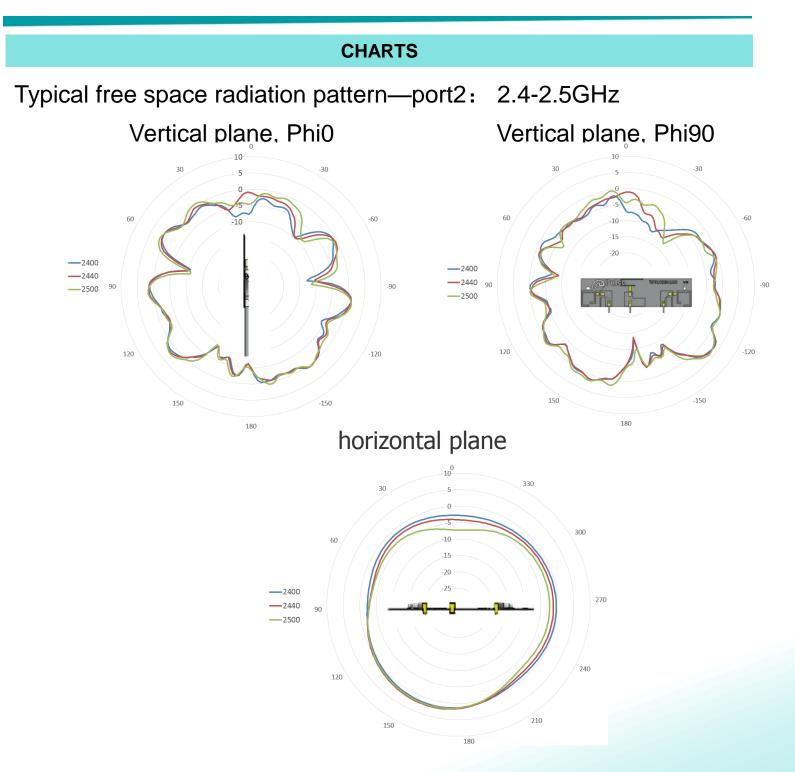




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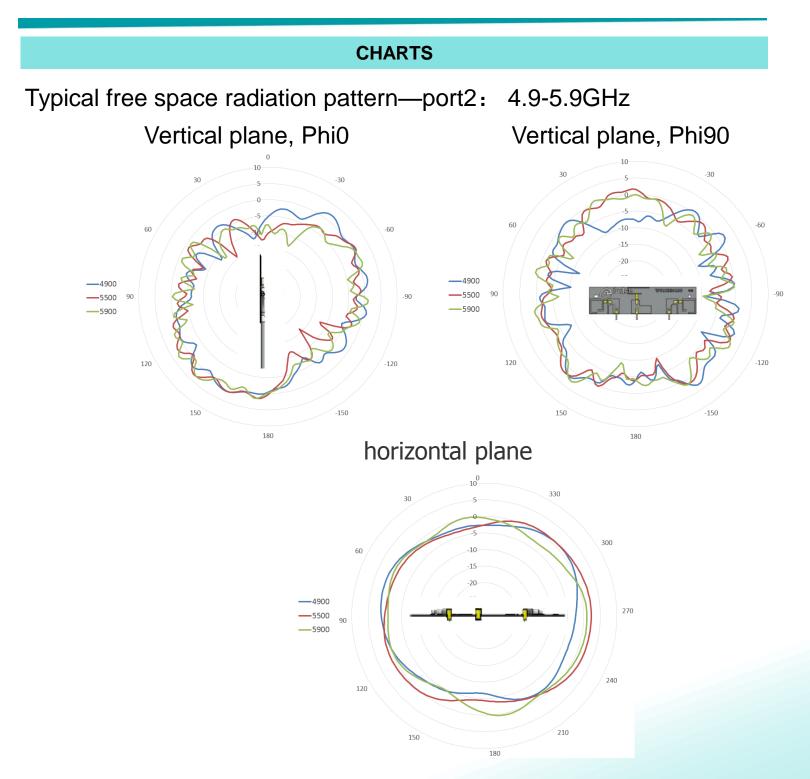




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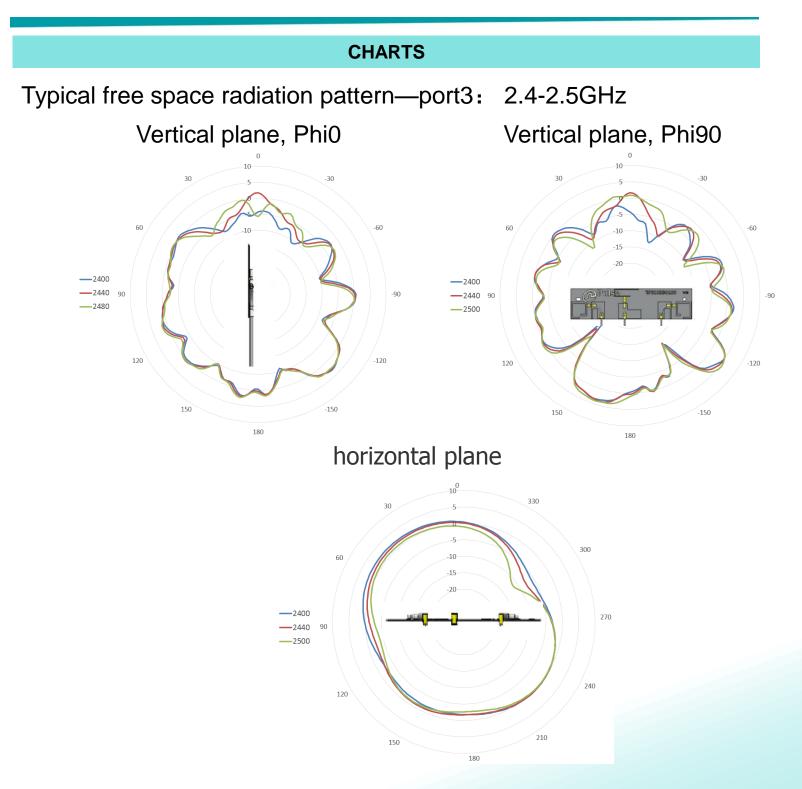




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RoHS



Description: 3x3 MiMo dual band WiFi/BT FPC antenna

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**CHARTS** Typical free space radiation pattern—port3: 4.9-5.9GHz Vertical plane, Phi0 Vertical plane, Phi90 30 30 4900 4900 -5500 90 -90 -5500 90 -5900 -5900 120 -120 120 -120 150 -150 150 -150 180 180 horizontal plane 330 300 -15 4900 270 -5500 90 5900 240 120 210 150

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## PACKAGING

5 antennas packed in one plastic bag

100 bags(TBD) of antennas packed in a cardboard box

1 label on each box with qty, part number, date code.

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



### Как с нами связаться

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