

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

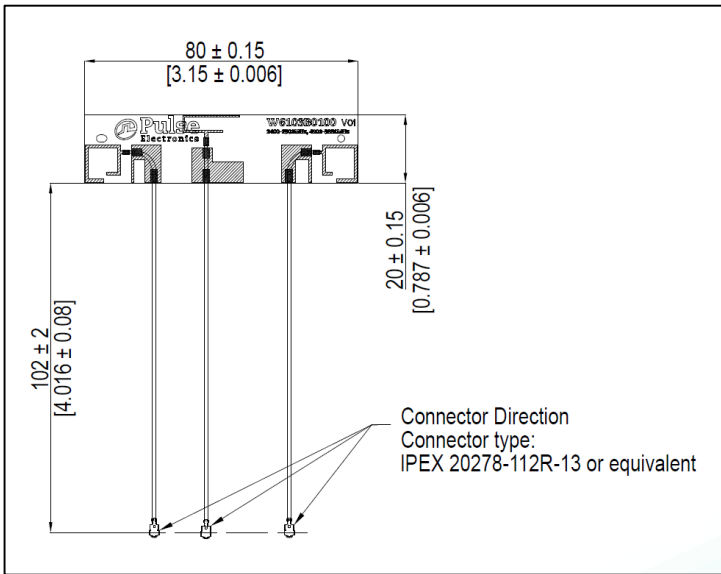
**Series: Gemini**

**PART NUMBER: W6103B0100**



**Features:**

- WiFi Bluetooth, BLE, ZigBee
- One antenna – 3 x dual band 2400-2500MHz, 4900-5900MHz
- Flexible to fit tight spaces
- High Efficiency – over 70%
- Standard and customized cable lengths and connectors



**Applications:**

- 802.11a/b/g/n/ac
- Challenging RF environments
- IoT – including security, video, graphics, bluetooth
- IoT - SmartGrid, Meters, Sensor Networks
- Transportation
- Bluetooth connections
- 2x2, 3x3 MiMo WiFi devices

All dimensions are in mm / inches

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



**Description: 3x3 MiMo dual band WiFi/BT  
FPC antenna****Series: Gemini****PART NUMBER: W6103B0100****ELECTRICAL SPECIFICATIONS**

Frequency	2.4-2.5/4.9-5.9 GHz
Nominal Impedance	50 $\Omega$
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 $\Phi$ 1.13mm 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

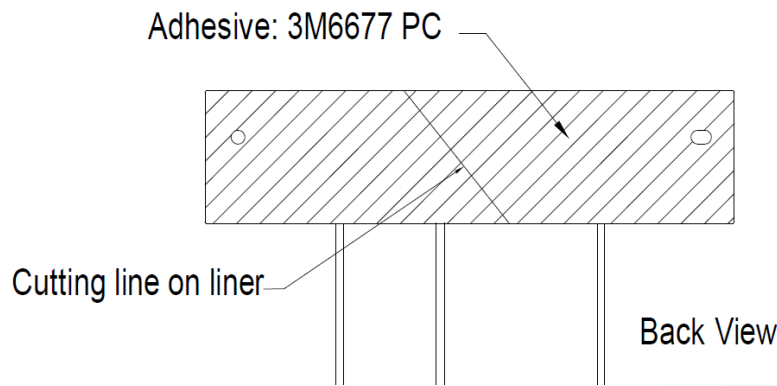
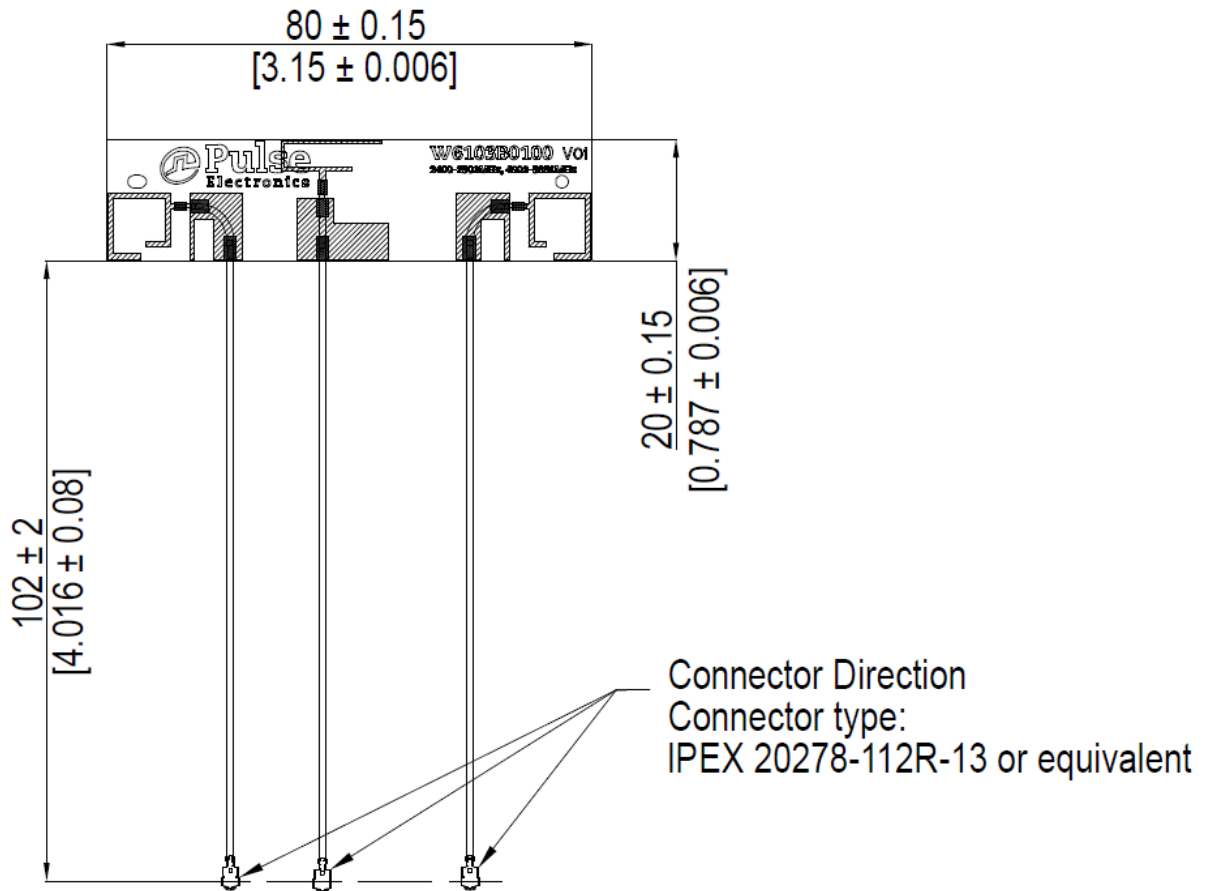
Operating temperature	-40~85° C
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MECHANICAL DRAWING



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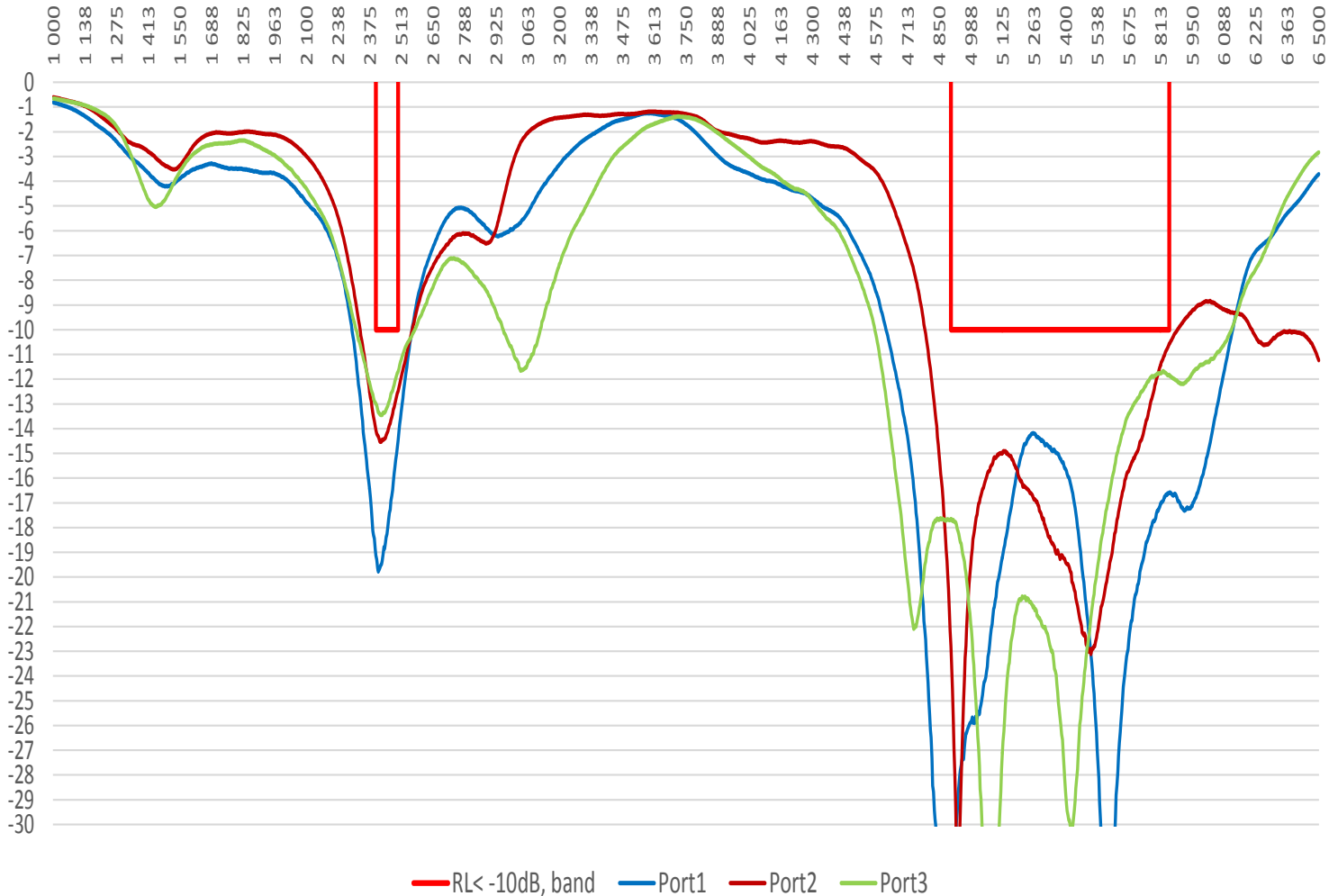
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CHARTS

Return Loss



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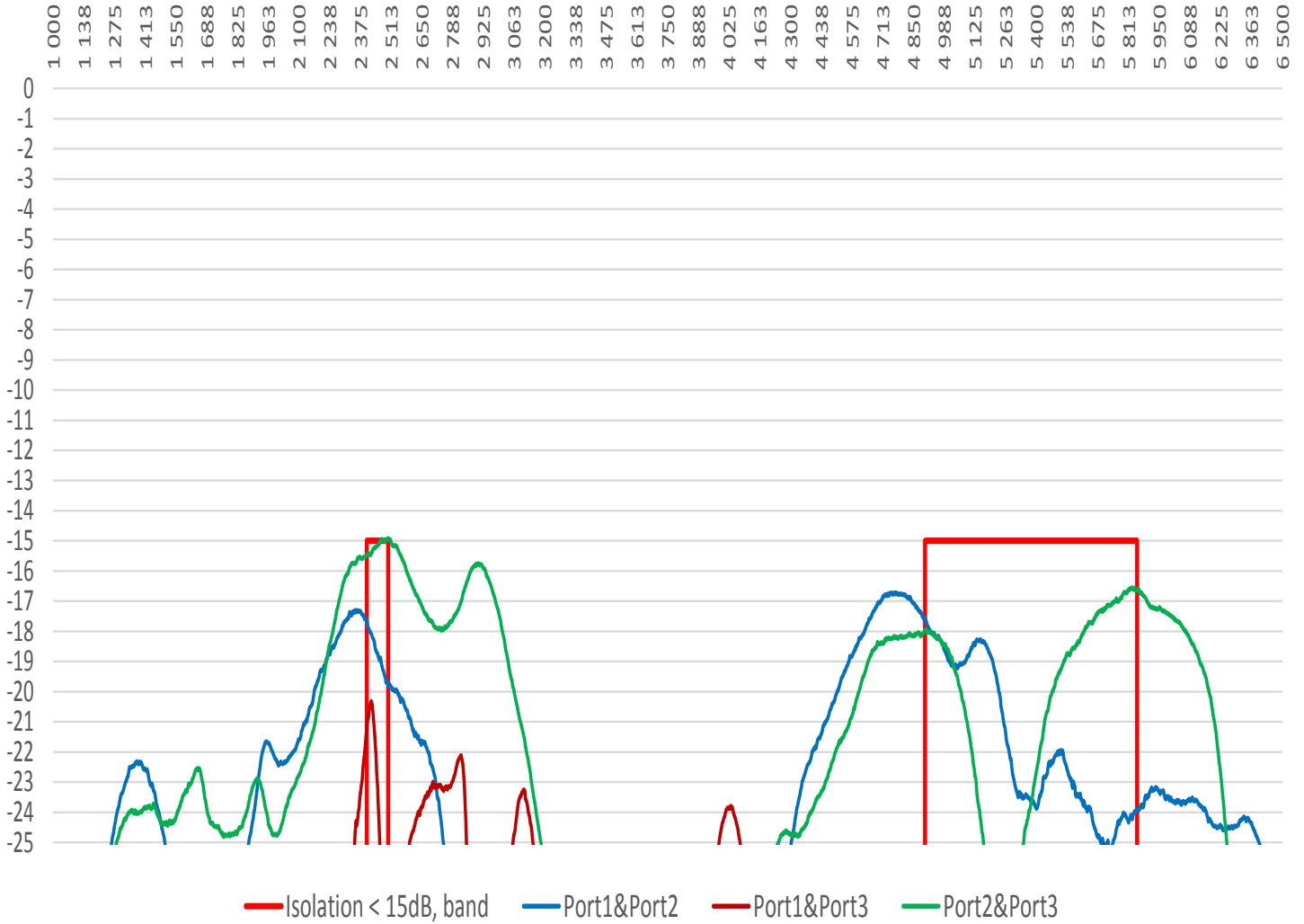
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CHARTS

Port to port isolation



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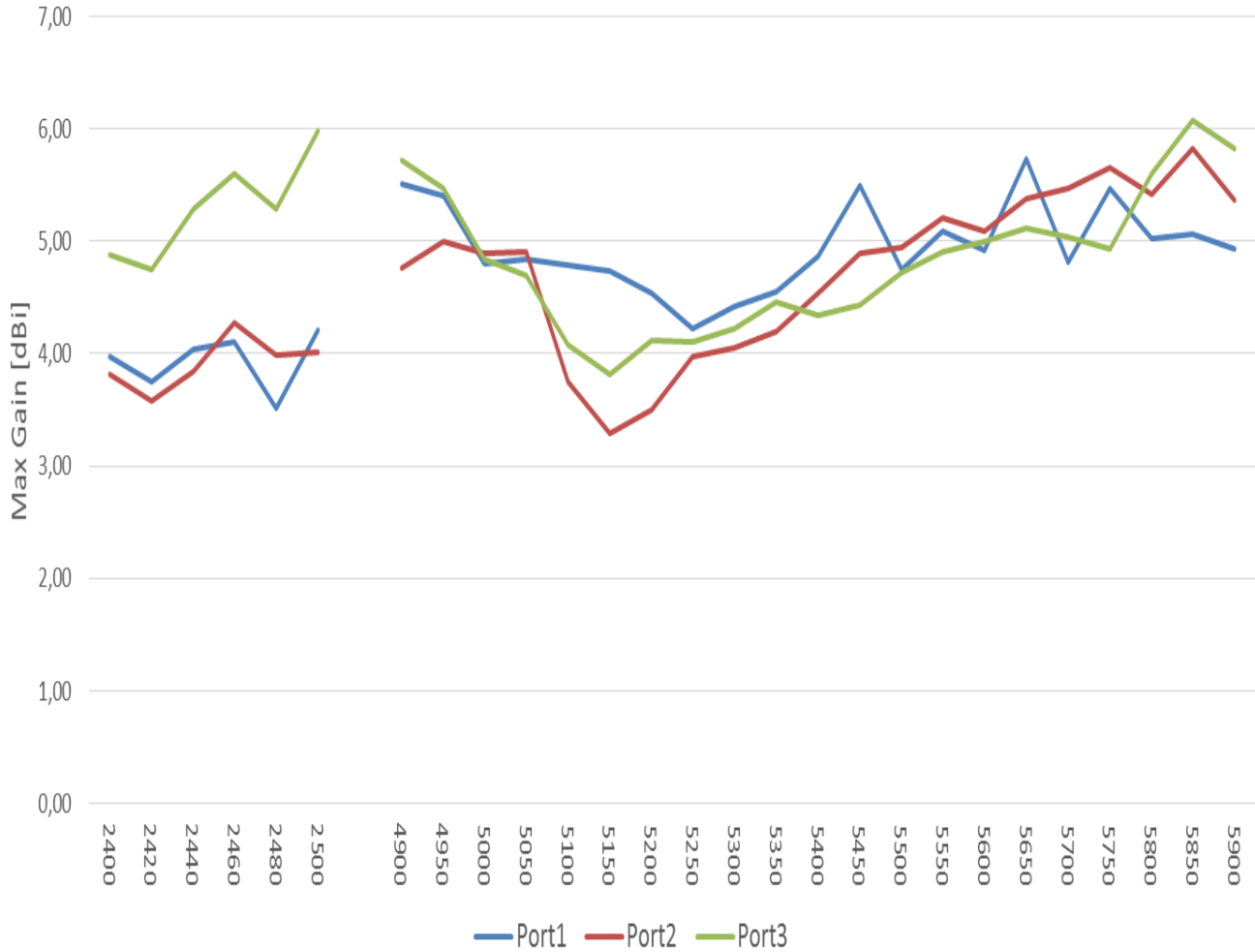
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CHARTS

Peak Gain(dBi)



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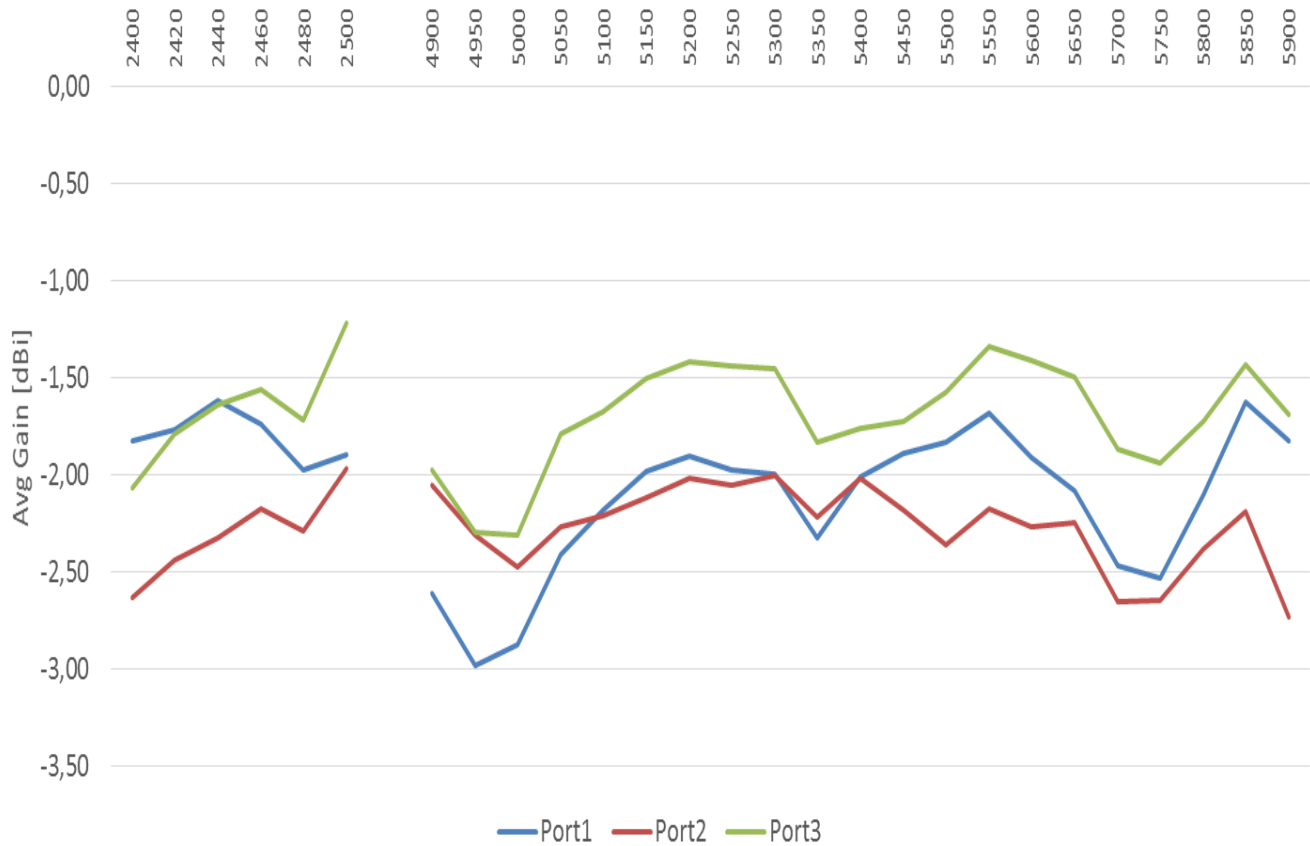
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Average Gain(dBi)



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Efficiency(%)



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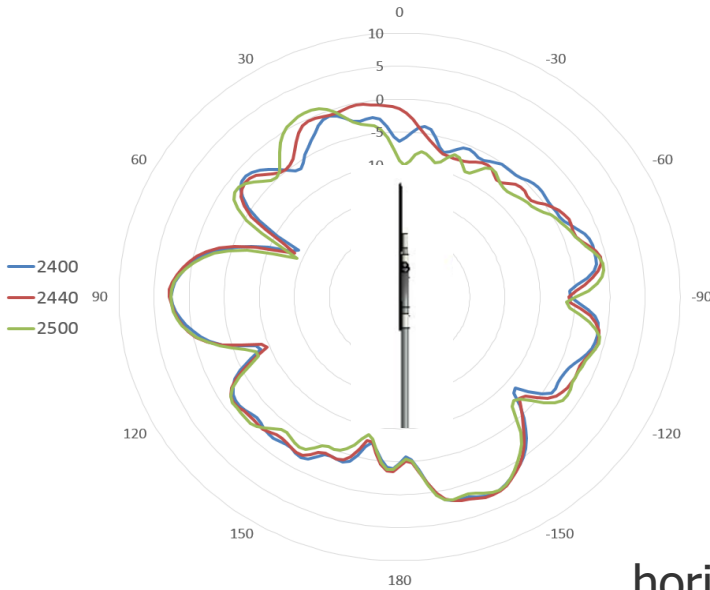
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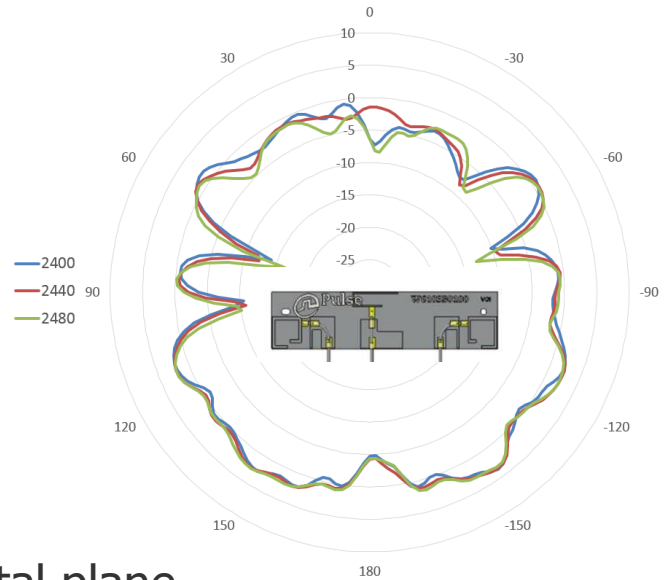
CHARTS

Typical free space radiation pattern—port1 : 2.4-2.5GHz

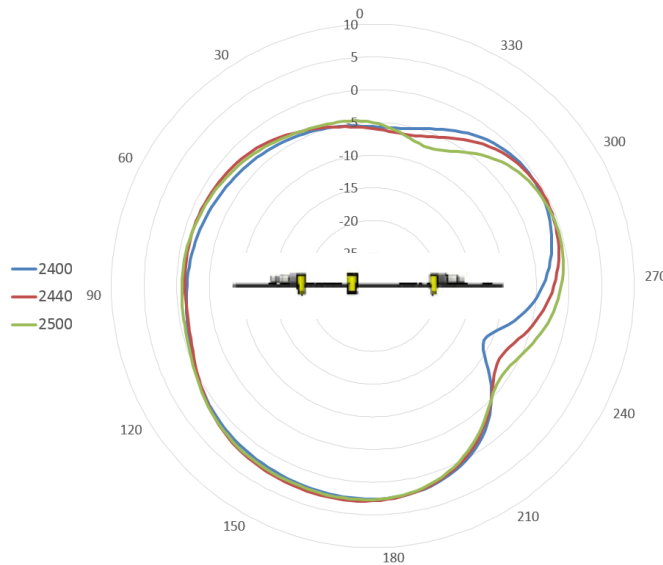
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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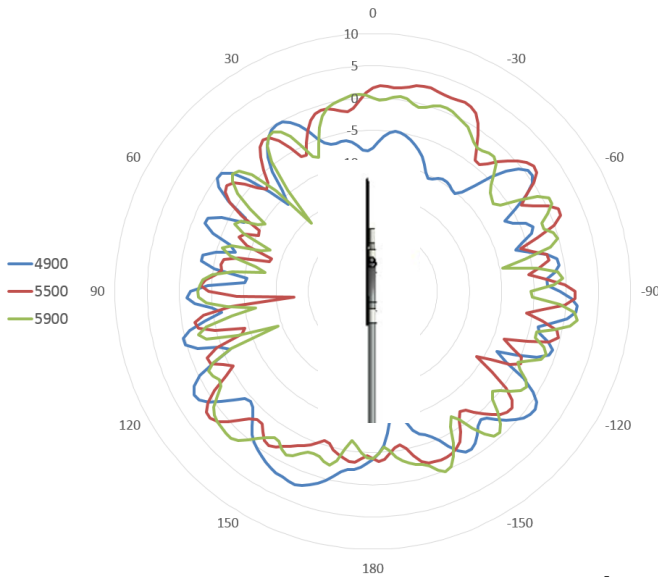
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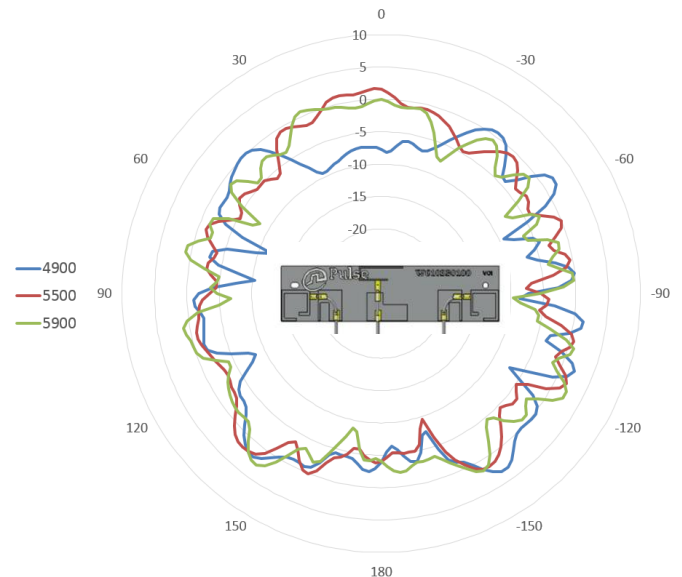
**CHARTS**

Typical free space radiation pattern—port1 : 4.9-5.9GHz

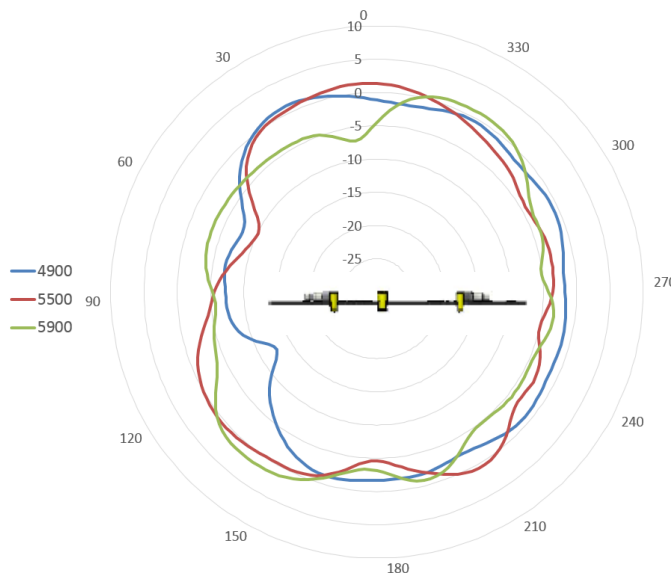
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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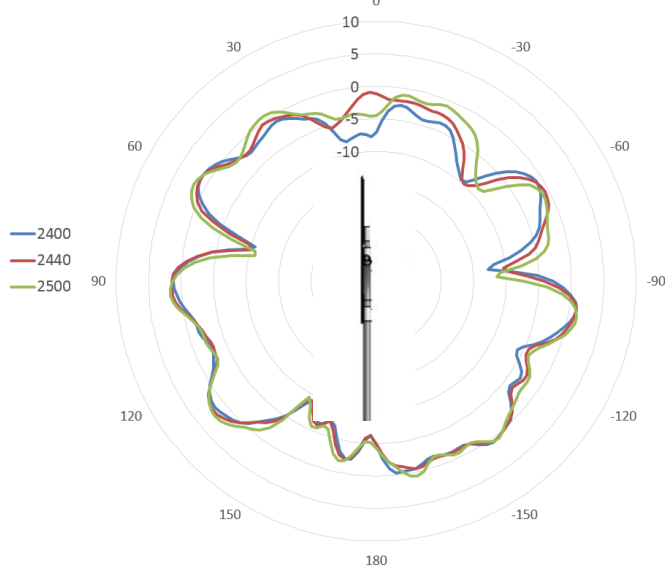
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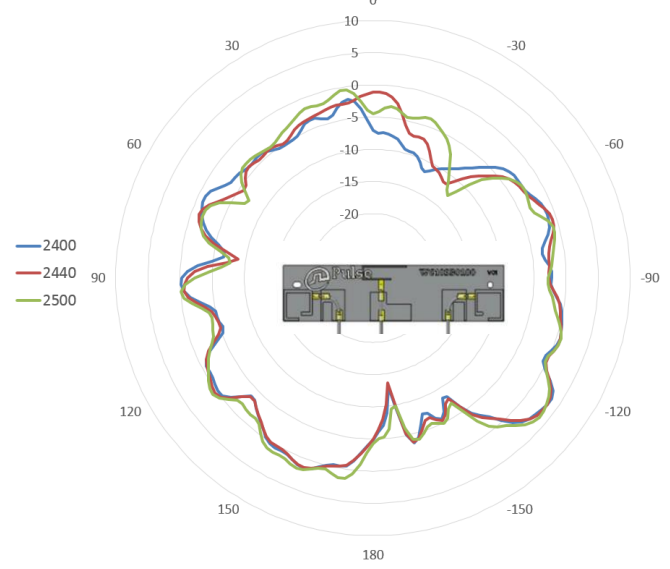
CHARTS

Typical free space radiation pattern—port2: 2.4-2.5GHz

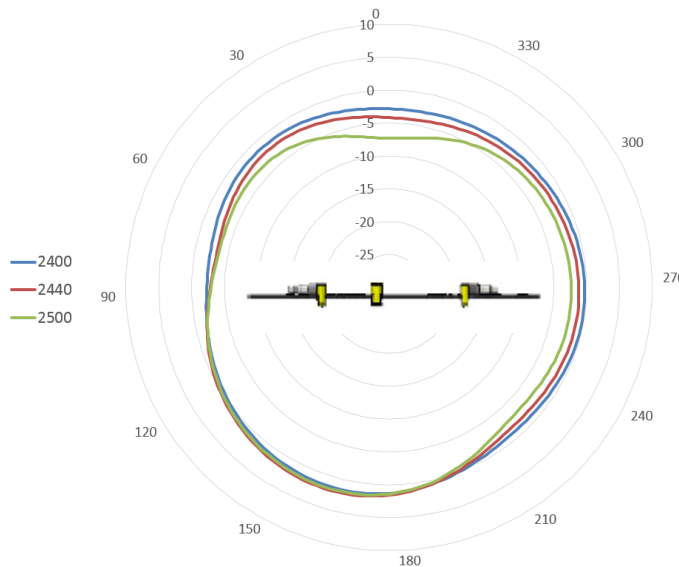
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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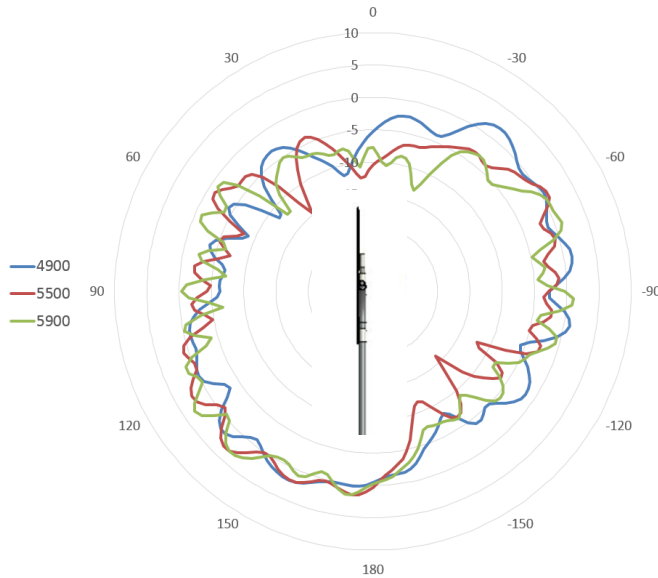
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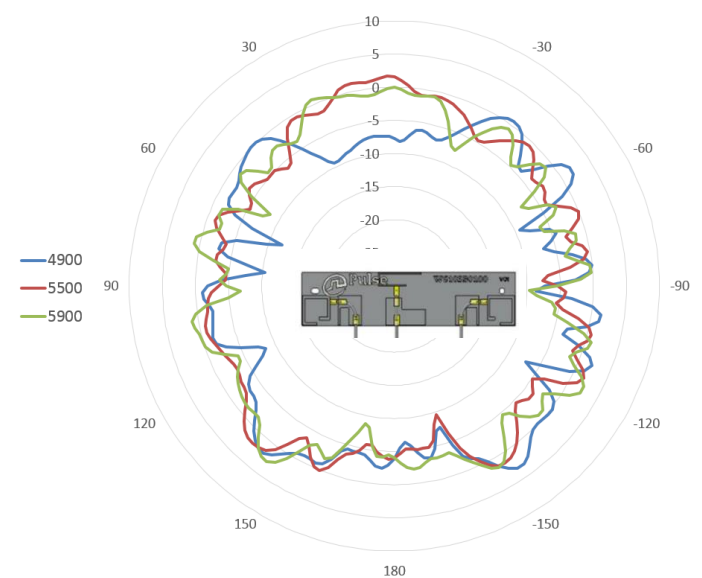
CHARTS

Typical free space radiation pattern—port2: 4.9-5.9GHz

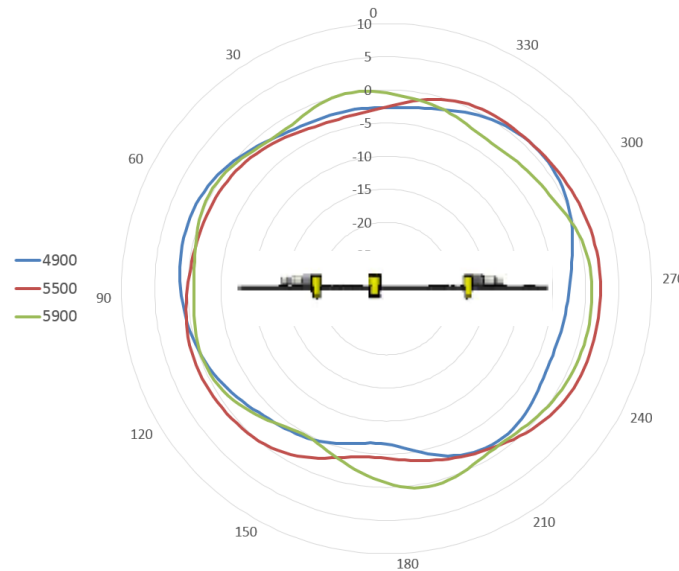
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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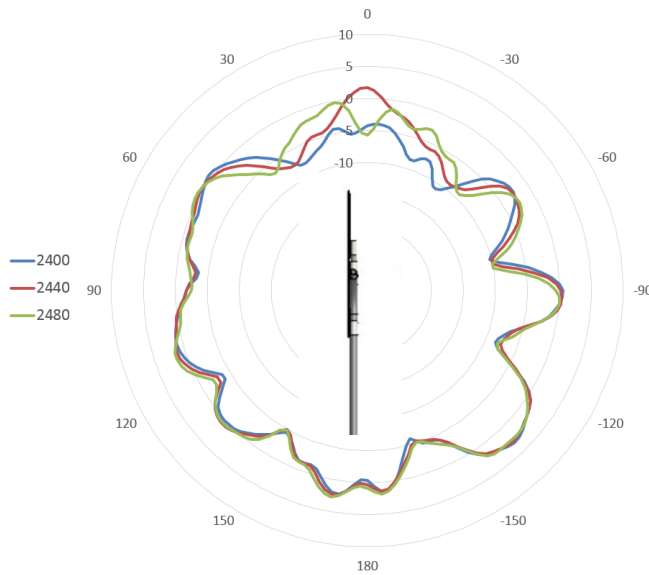
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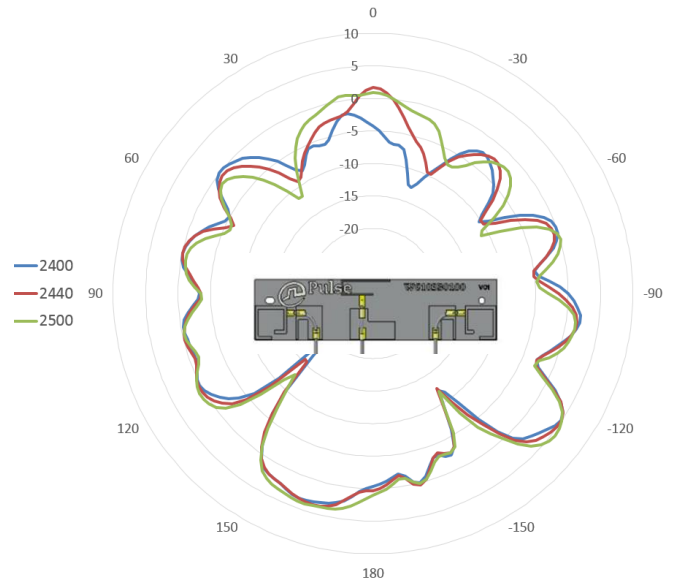
**CHARTS**

Typical free space radiation pattern—port3: 2.4-2.5GHz

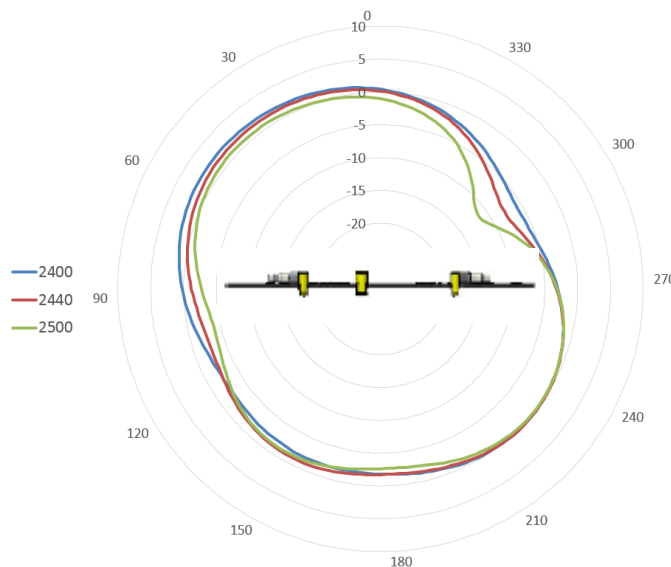
Vertical plane, Phi0



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horizontal plane



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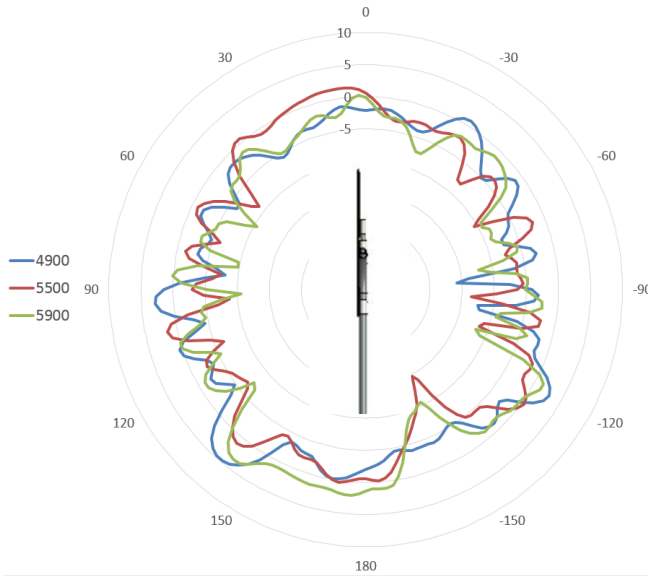
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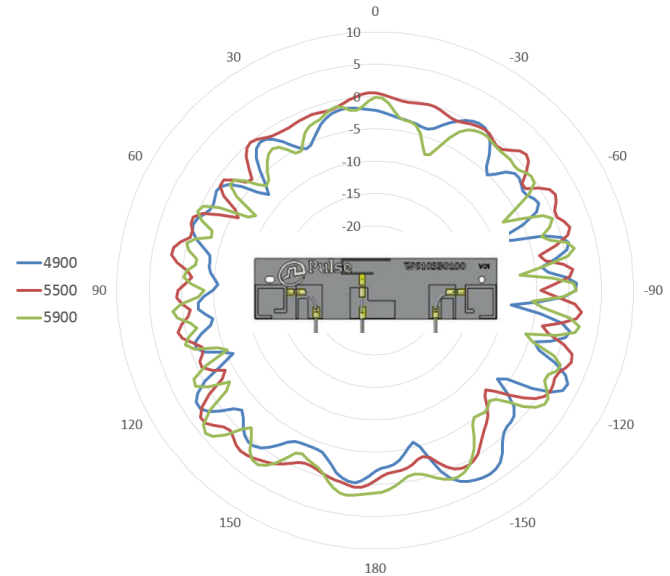
CHARTS

Typical free space radiation pattern—port3: 4.9-5.9GHz

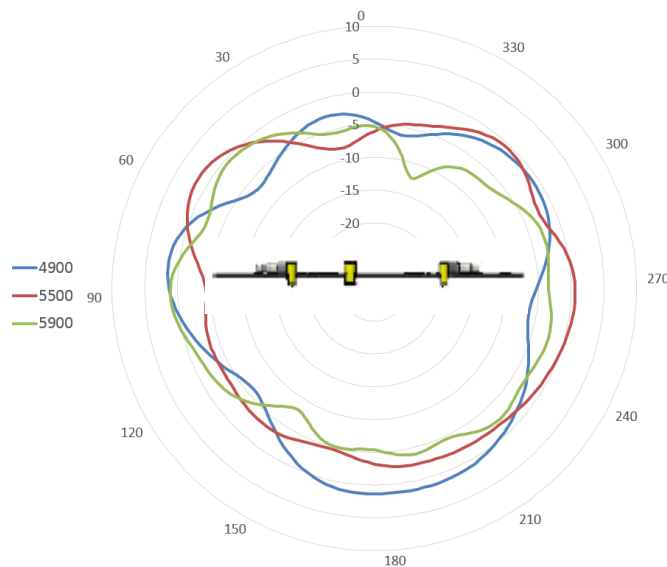
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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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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- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

«**JONHON**» (основан в 1970 г.)

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(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

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ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

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Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

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