

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

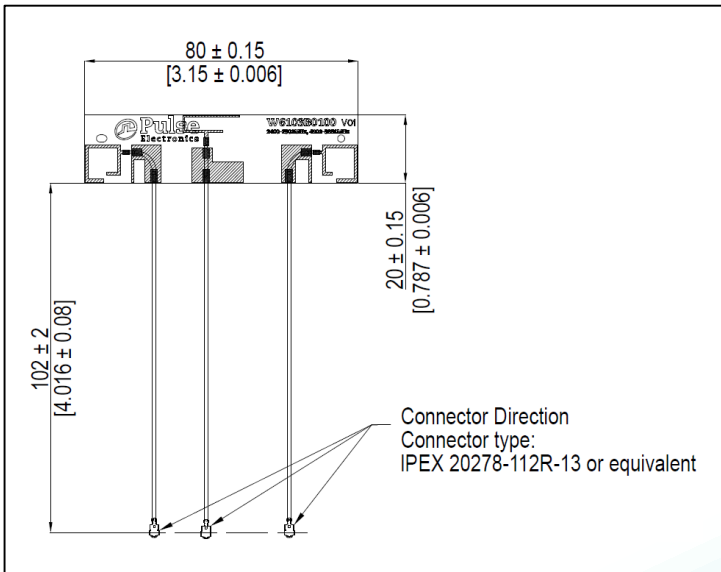
**Series: Gemini**

**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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For more information:

Pulse Worldwide Headquarters  
12220 World Trade Drive  
San Diego, CA 92128  
USA  
Tel: 1-858-674-8100

Pulse/Larsen Antennas  
3611 NE 112<sup>th</sup> Ave  
Vancouver, WA 98682  
USA  
Tel: 1-360-944-7551

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, 4<sup>th</sup> Phase  
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

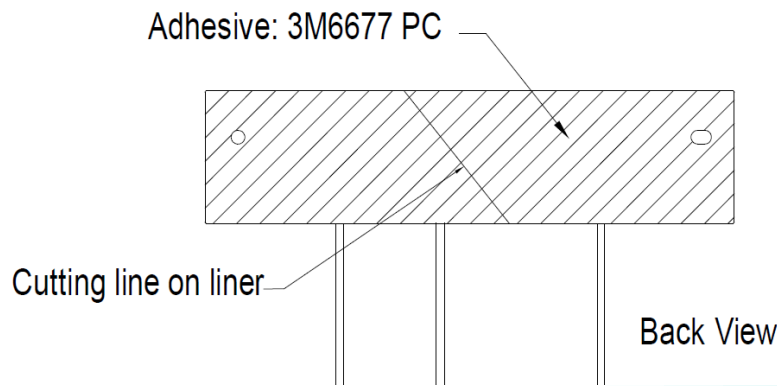
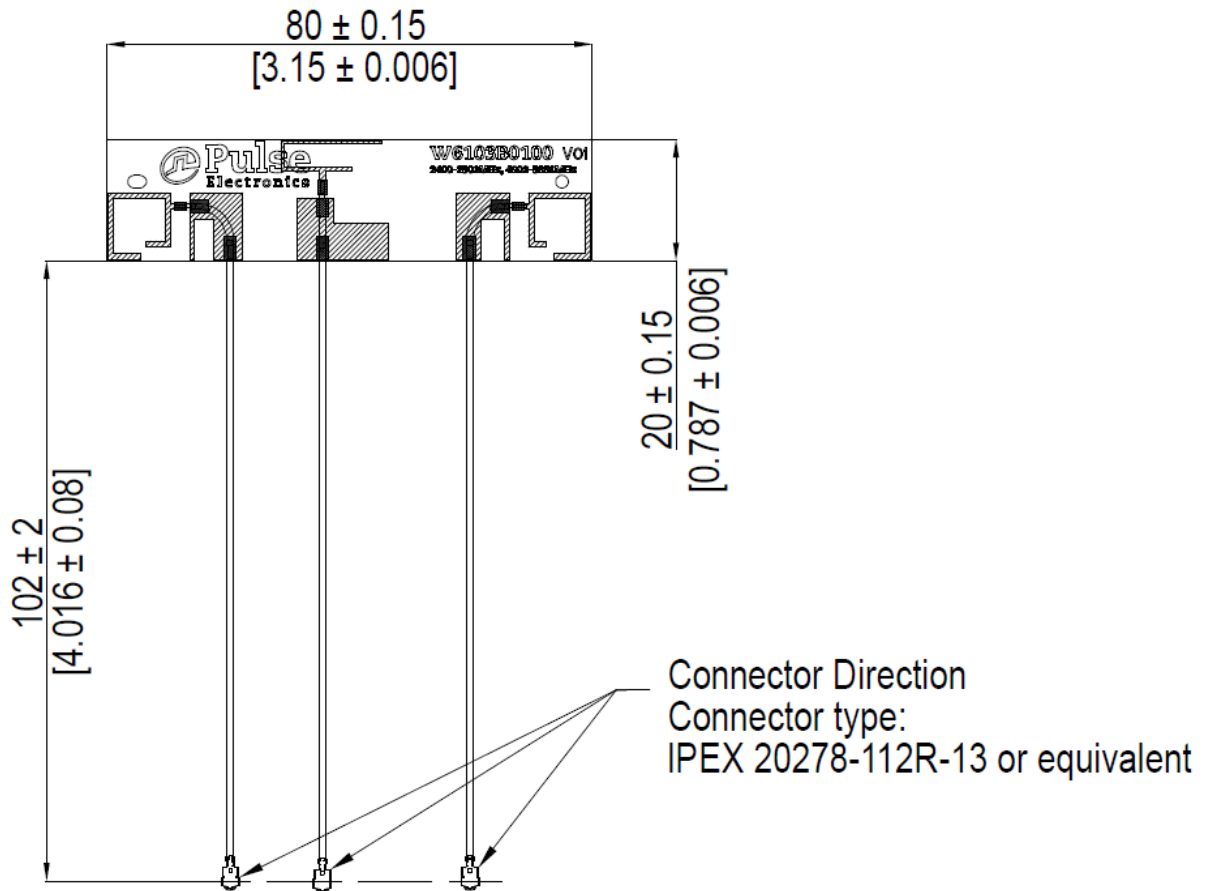
Operating temperature	-40~85° C
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MECHANICAL DRAWING



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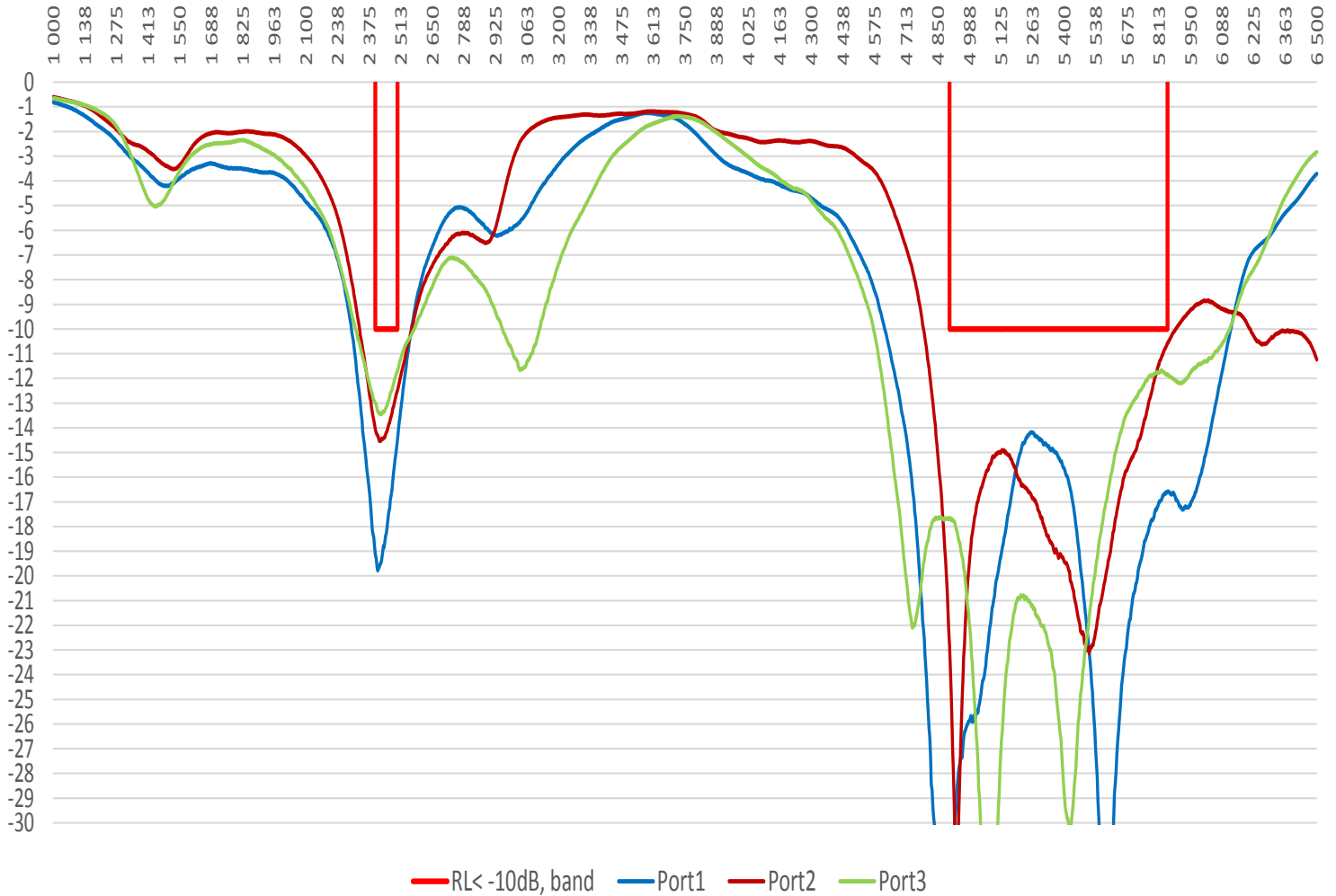
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CHARTS

Return Loss



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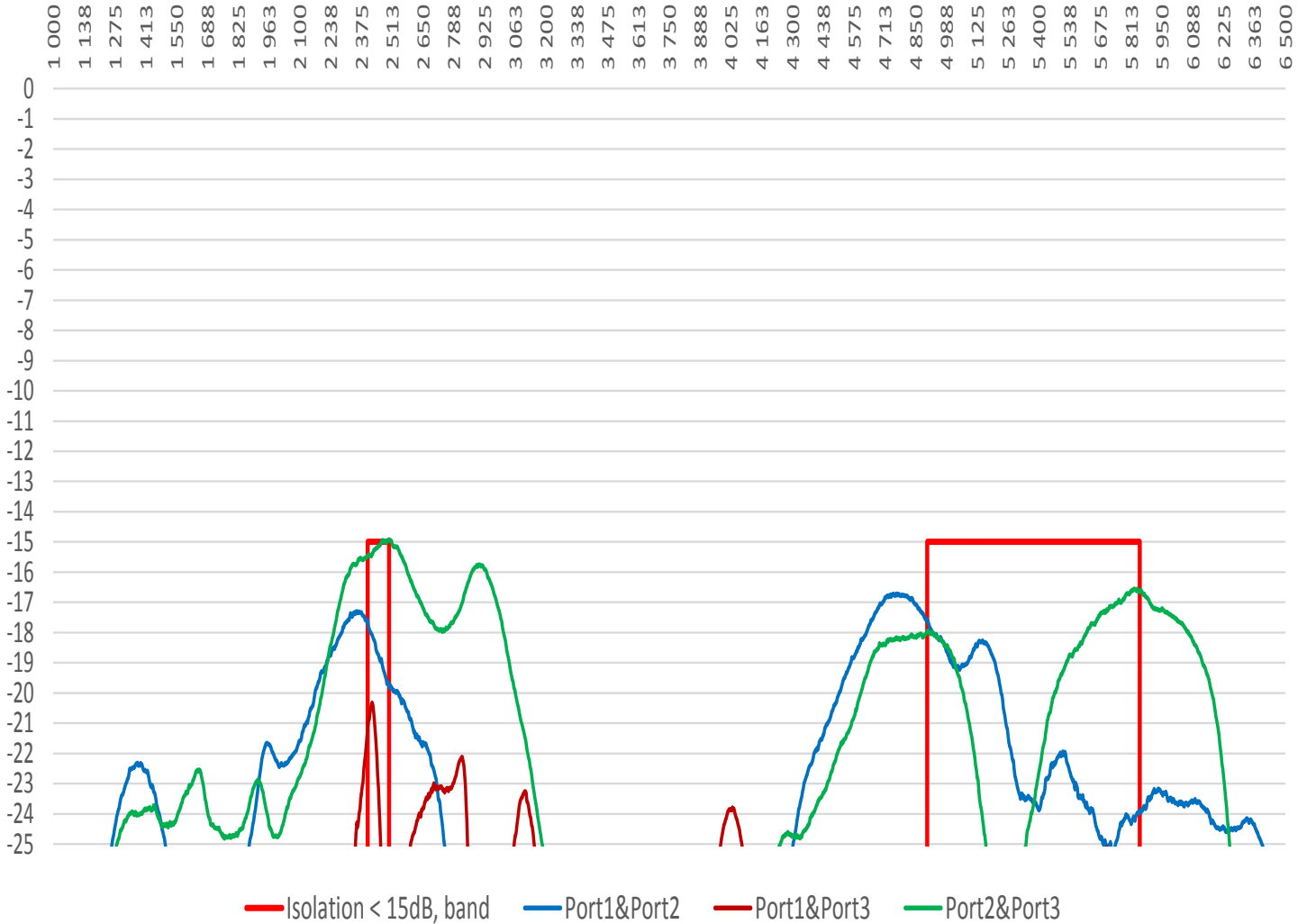
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Port to port isolation



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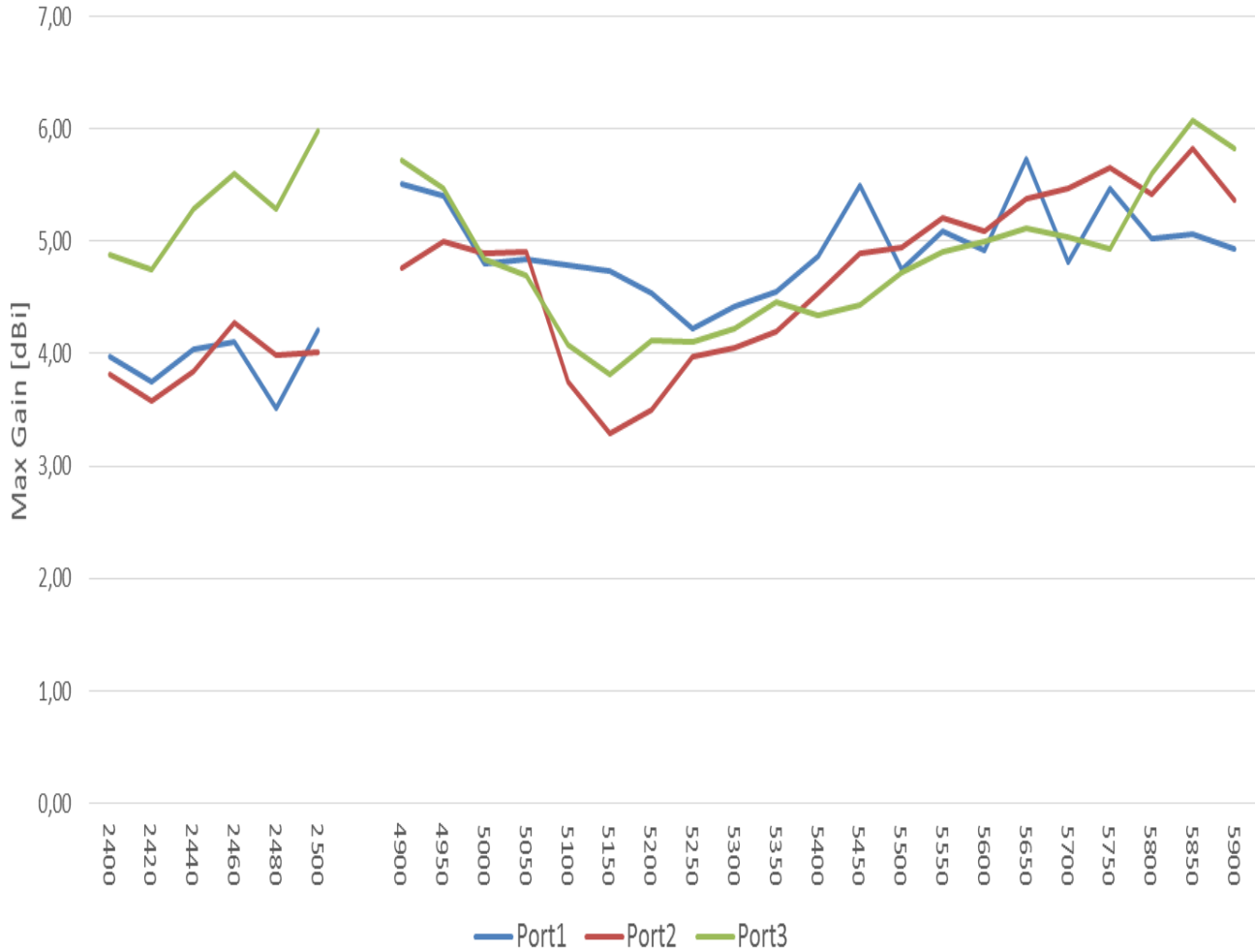
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CHARTS

Peak Gain(dBi)



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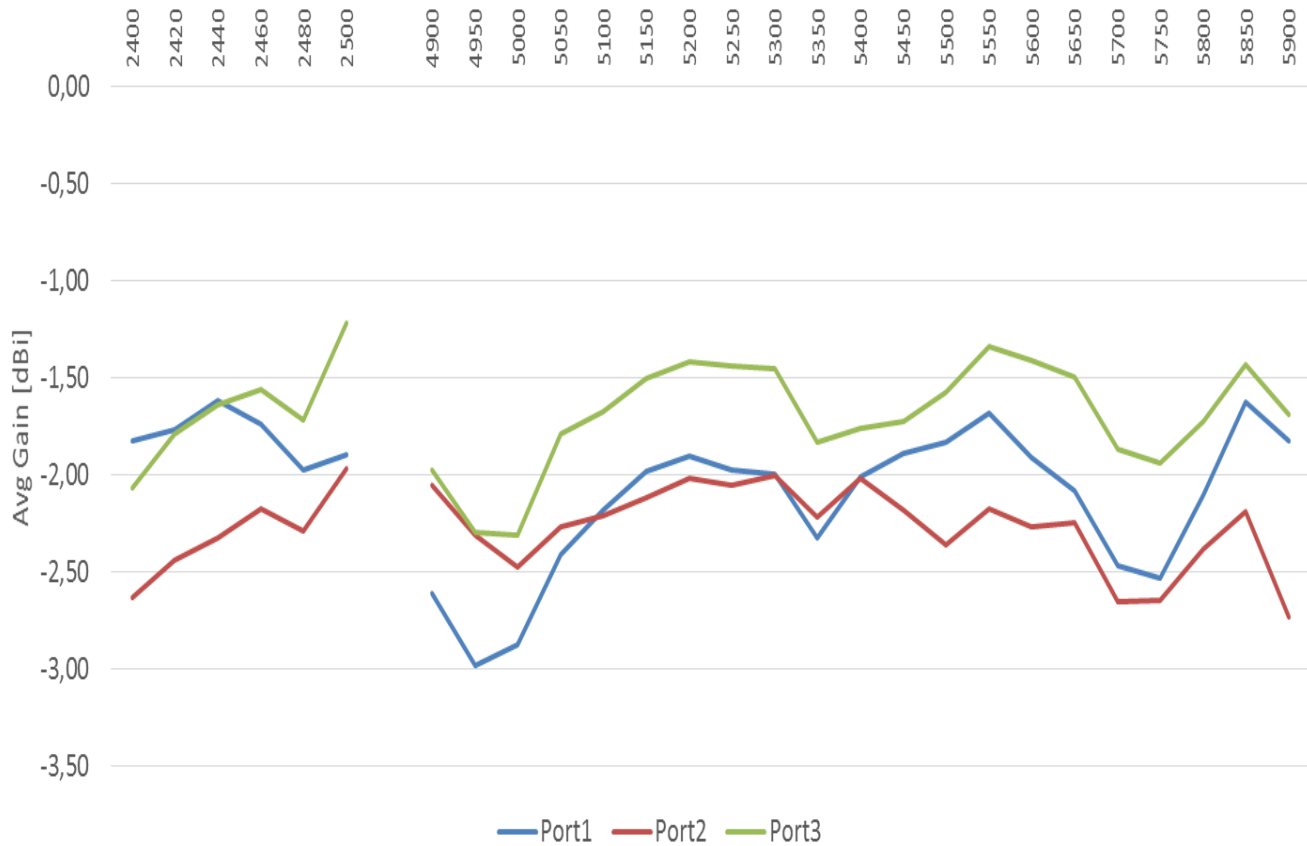
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Average Gain(dBi)



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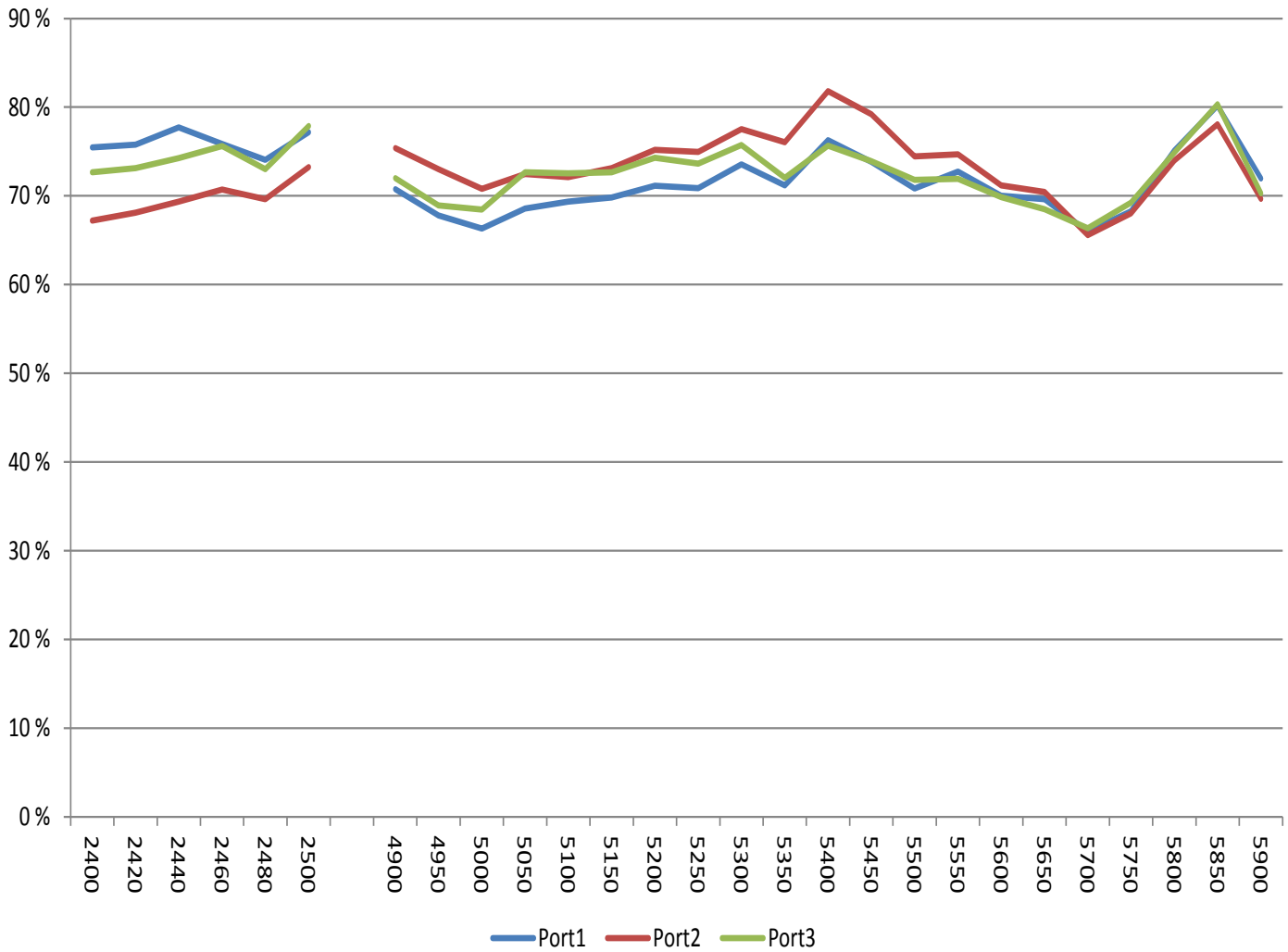
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Efficiency(%)



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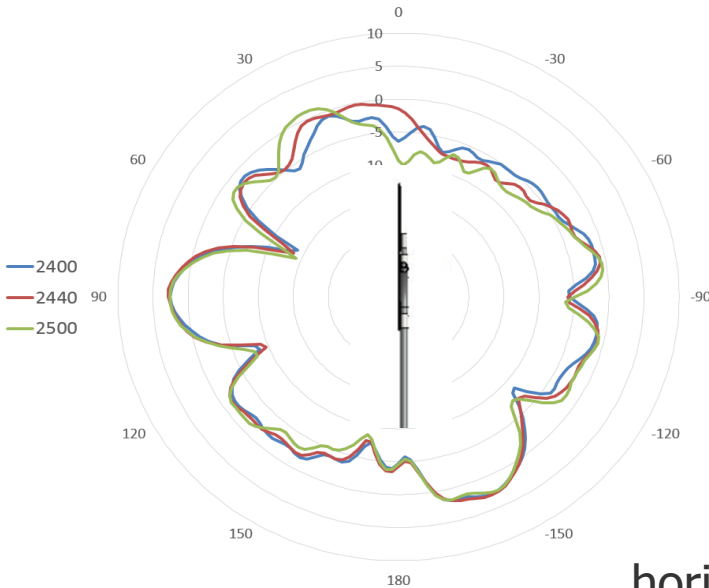
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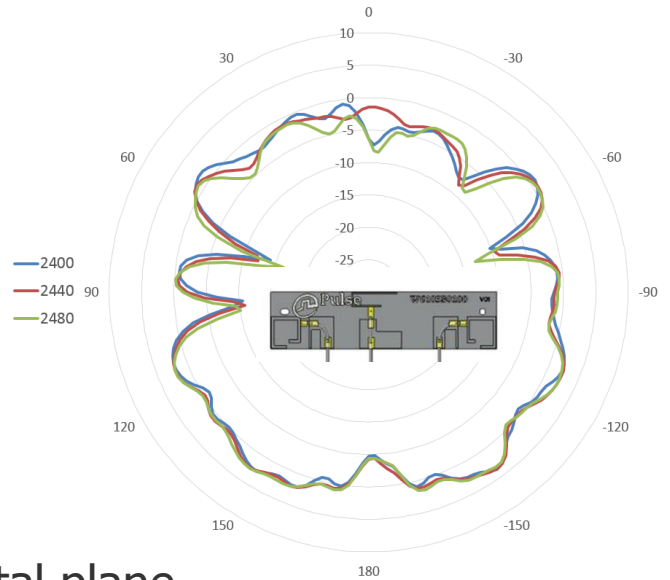
CHARTS

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

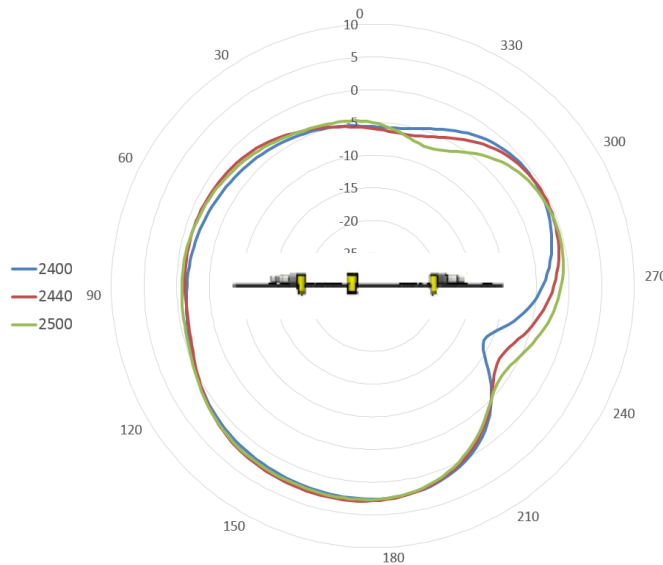
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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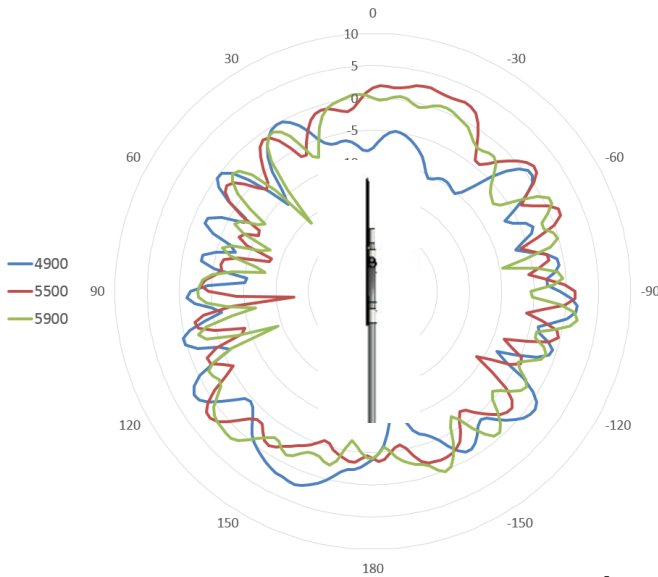
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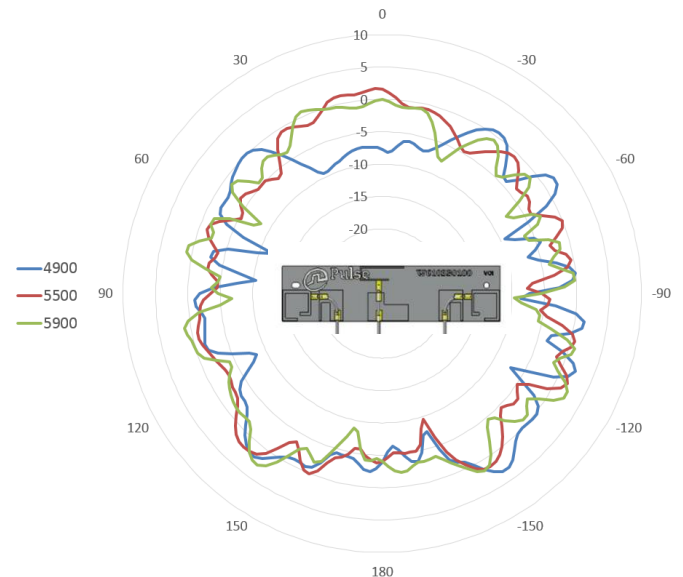
CHARTS

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

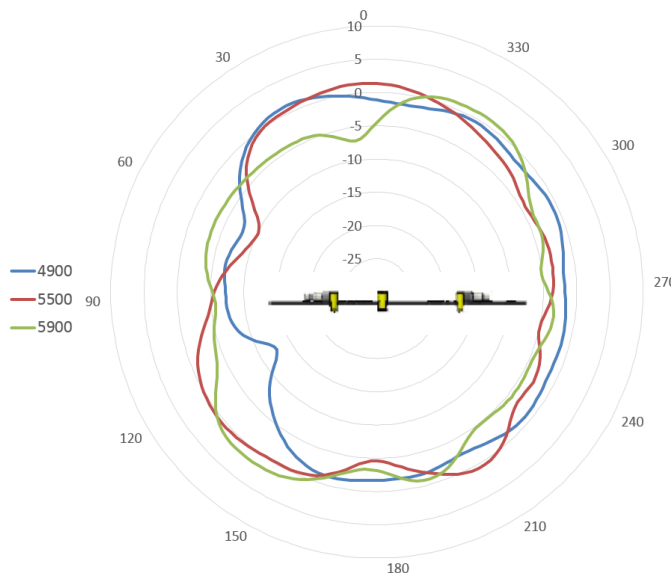
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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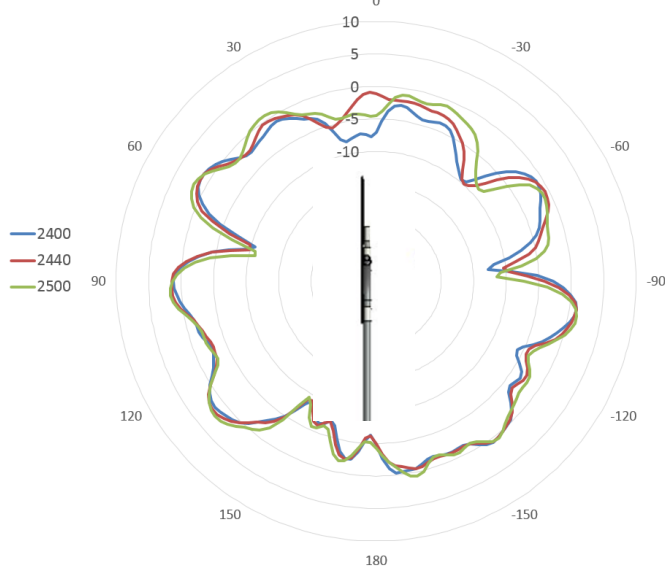
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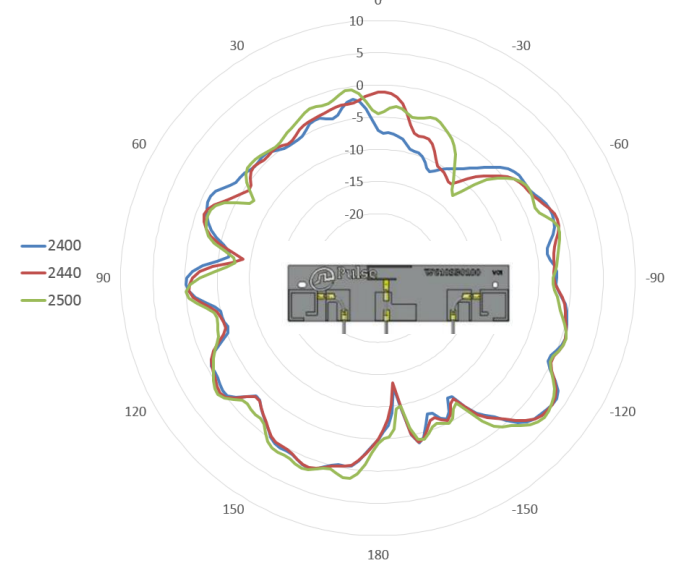
CHARTS

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

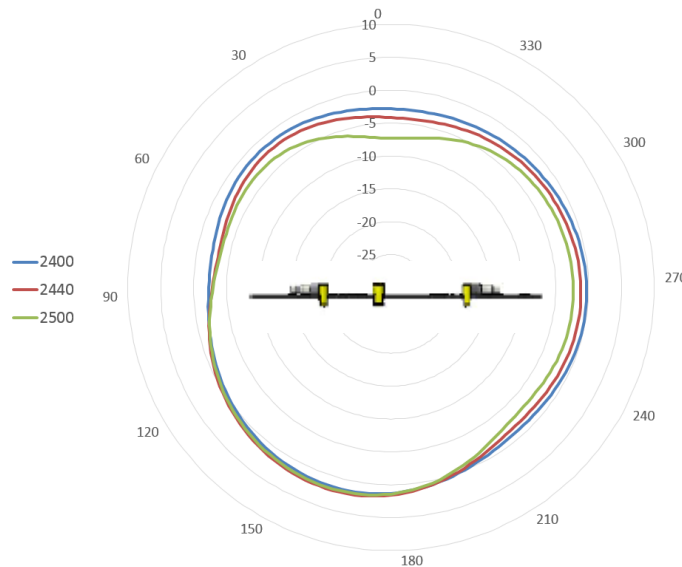
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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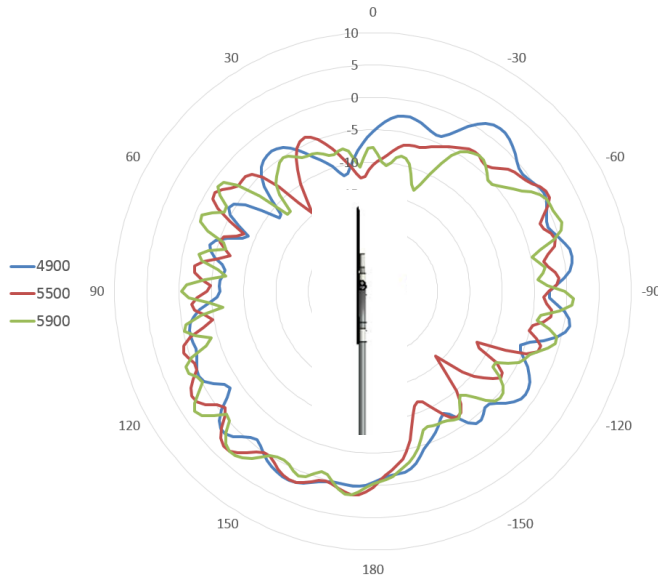
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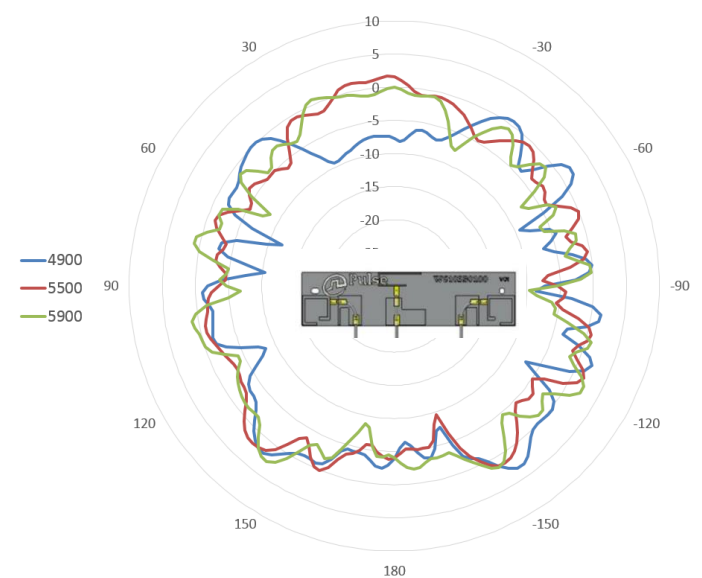
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Typical free space radiation pattern—port2: 4.9-5.9GHz

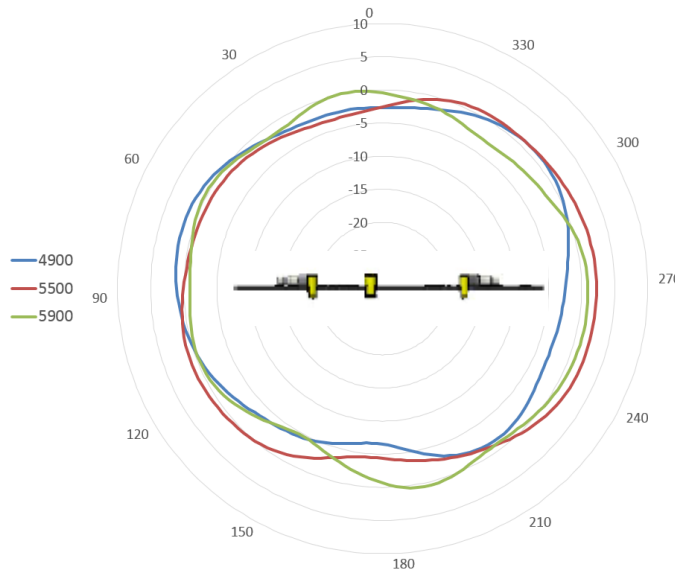
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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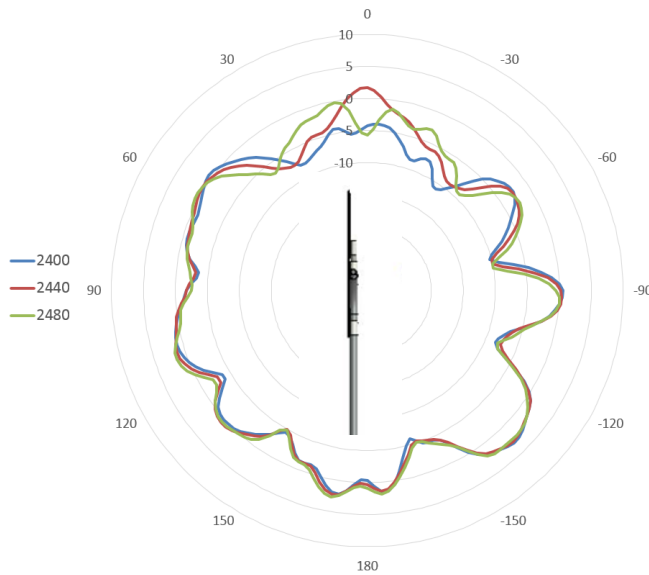
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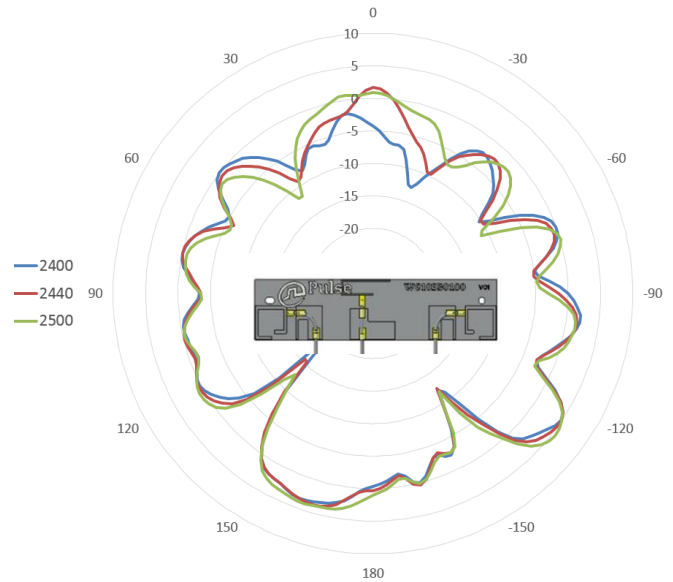
**CHARTS**

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

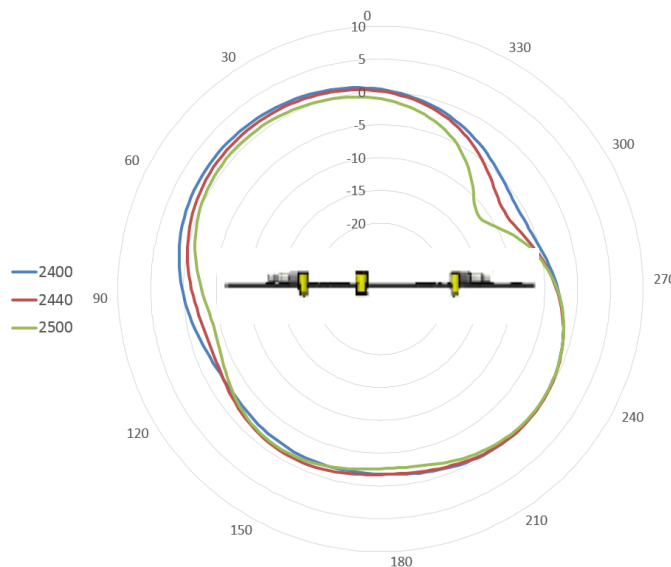
Vertical plane, Phi0



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horizontal plane



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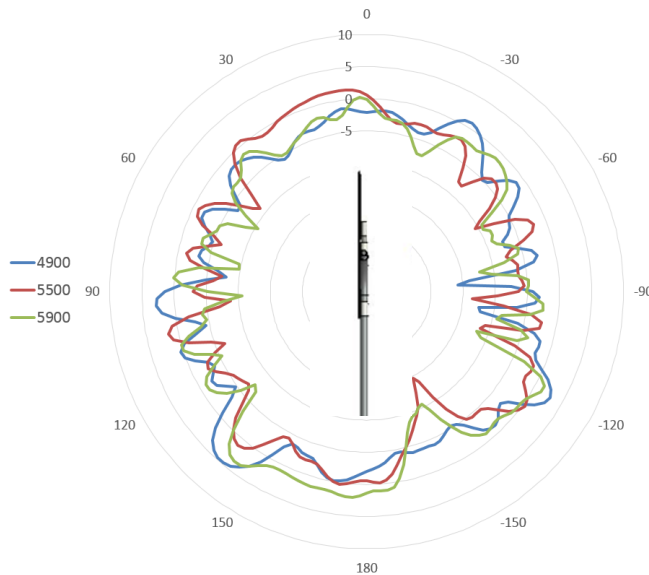
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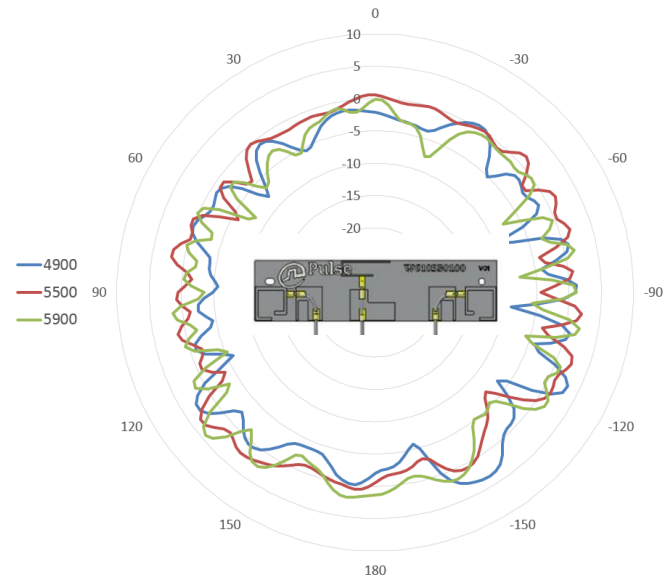
CHARTS

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

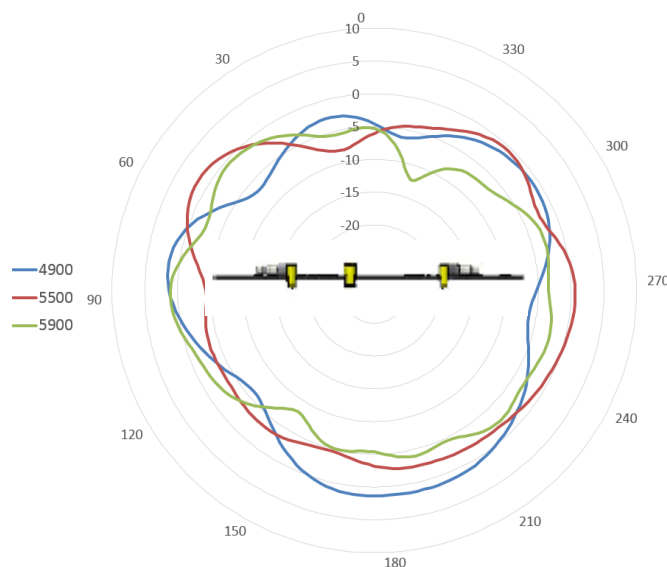
Vertical plane, Phi0



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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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.);

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- 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

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.