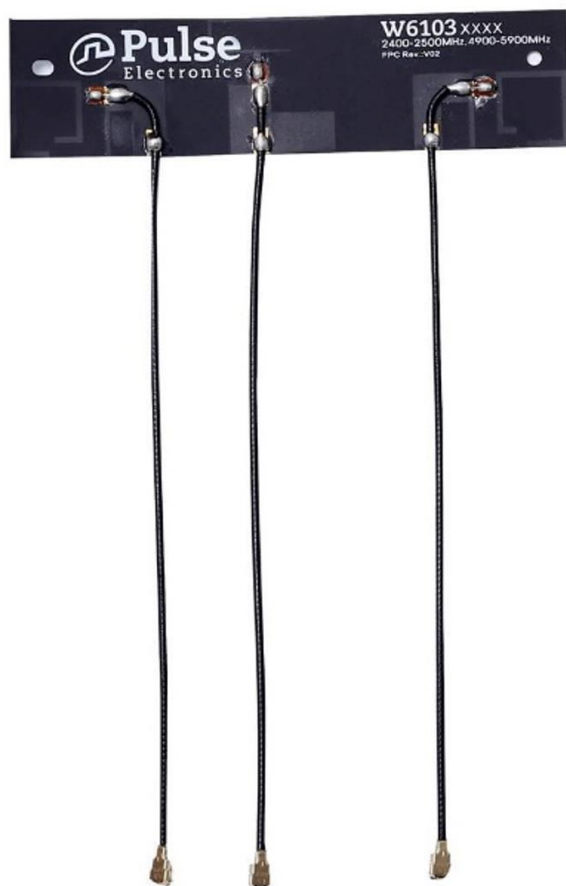


**Description: 3x3 MiMo dual band WiFi/BT  
FPC antenna**

**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:**

- WiFi-6
- 802.11a/b/g/n/ac/ax
- 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

Issue: 2035

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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

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

**Series: Gemini**

**PART NUMBER: W6103B0100**

### 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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Issue: 2035

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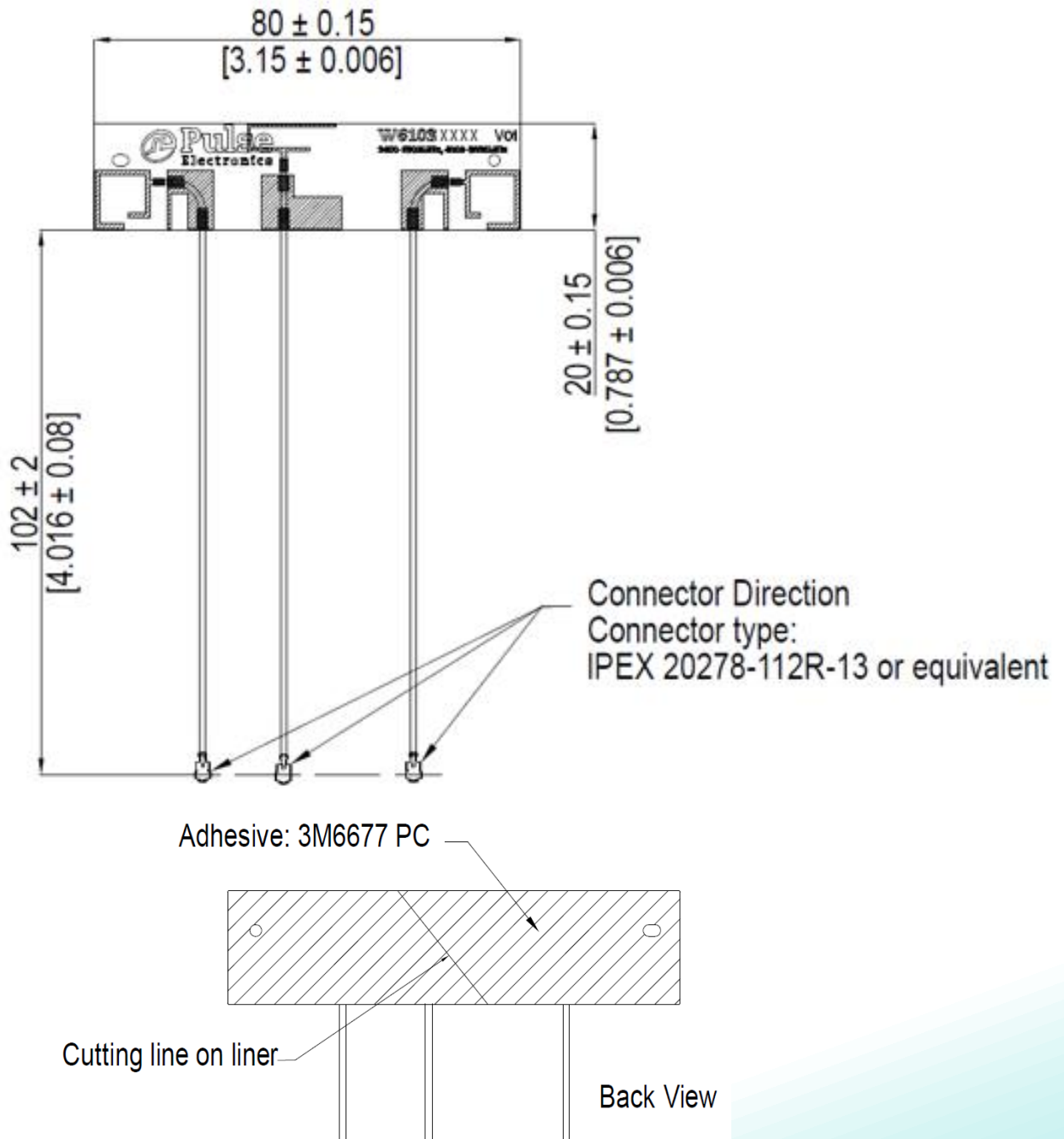
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Description: 3x3 MiMo dual band WiFi/BT  
FPC antenna

Series: Gemini

PART NUMBER: W6103B0100

MECHANICAL DRAWING



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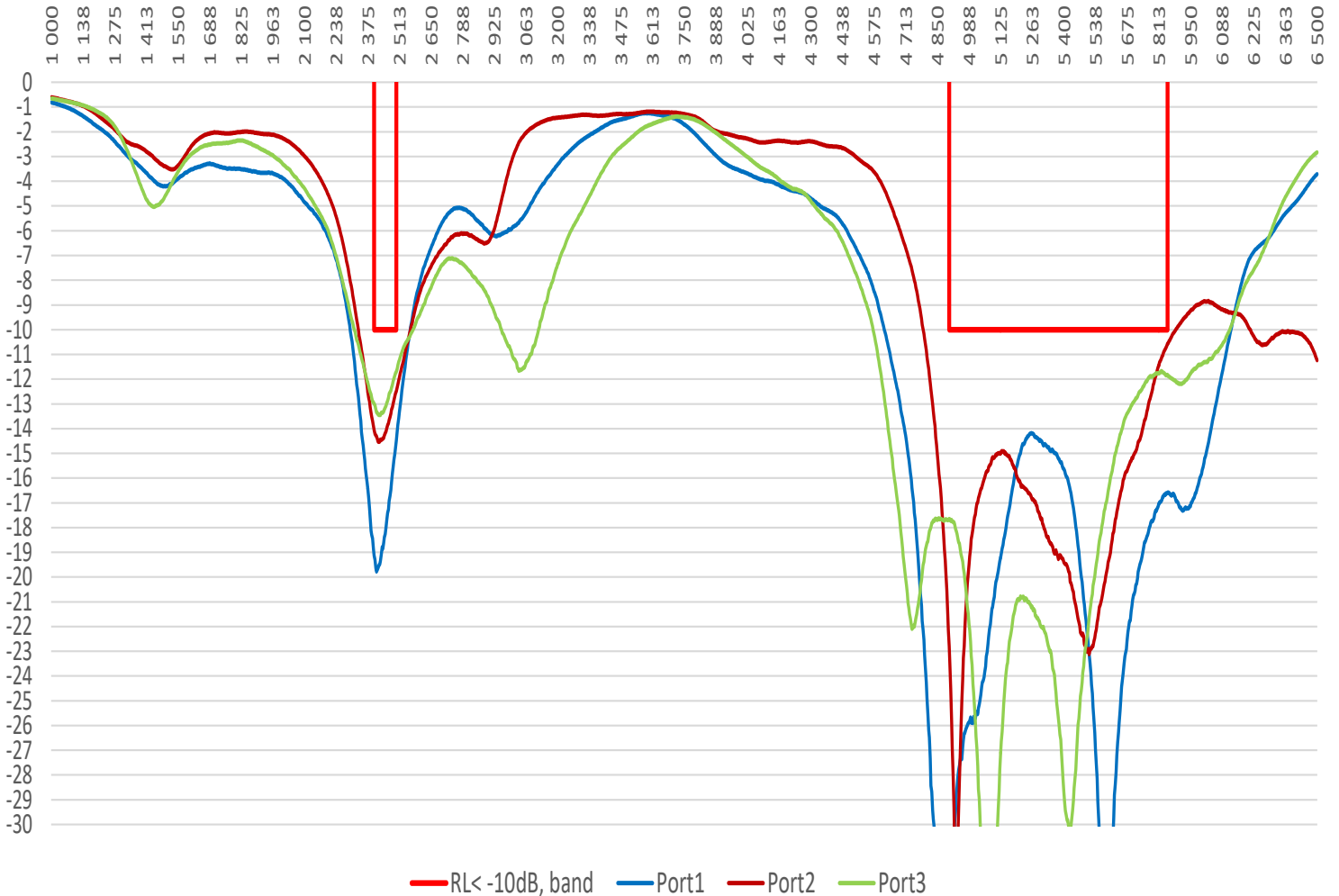
**Description: 3x3 MiMo dual band WiFi/BT  
FPC antenna**

**Series: Gemini**

**PART NUMBER: W6103B0100**

**CHARTS**

**Return Loss**



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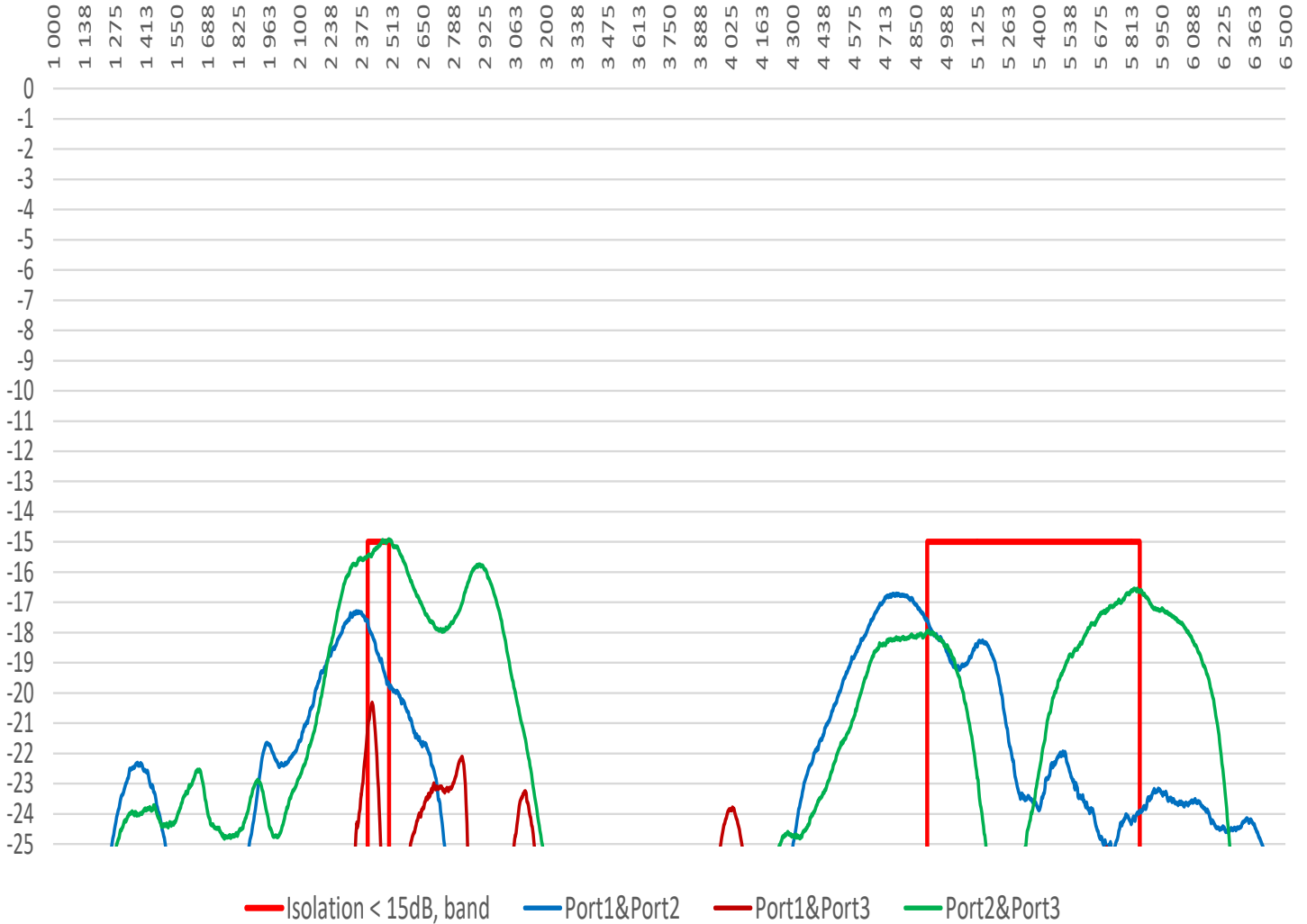
**Description: 3x3 MiMo dual band WiFi/BT  
FPC antenna**

**Series: Gemini**

**PART NUMBER: W6103B0100**

**CHARTS**

**Port to port isolation**



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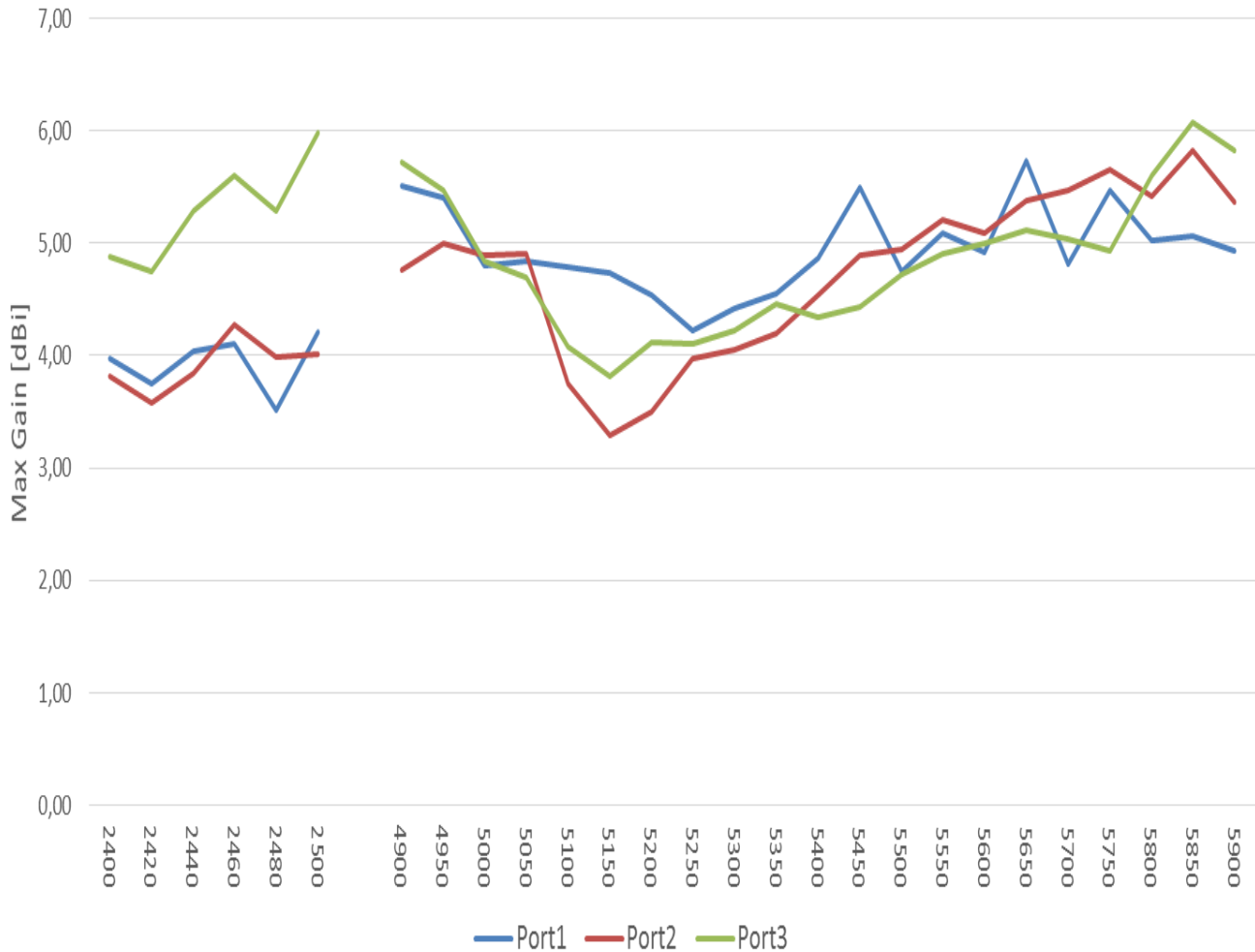
**Description: 3x3 MiMo dual band WiFi/BT  
FPC antenna**

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**PART NUMBER: W6103B0100**

**CHARTS**

**Peak Gain(dBi)**



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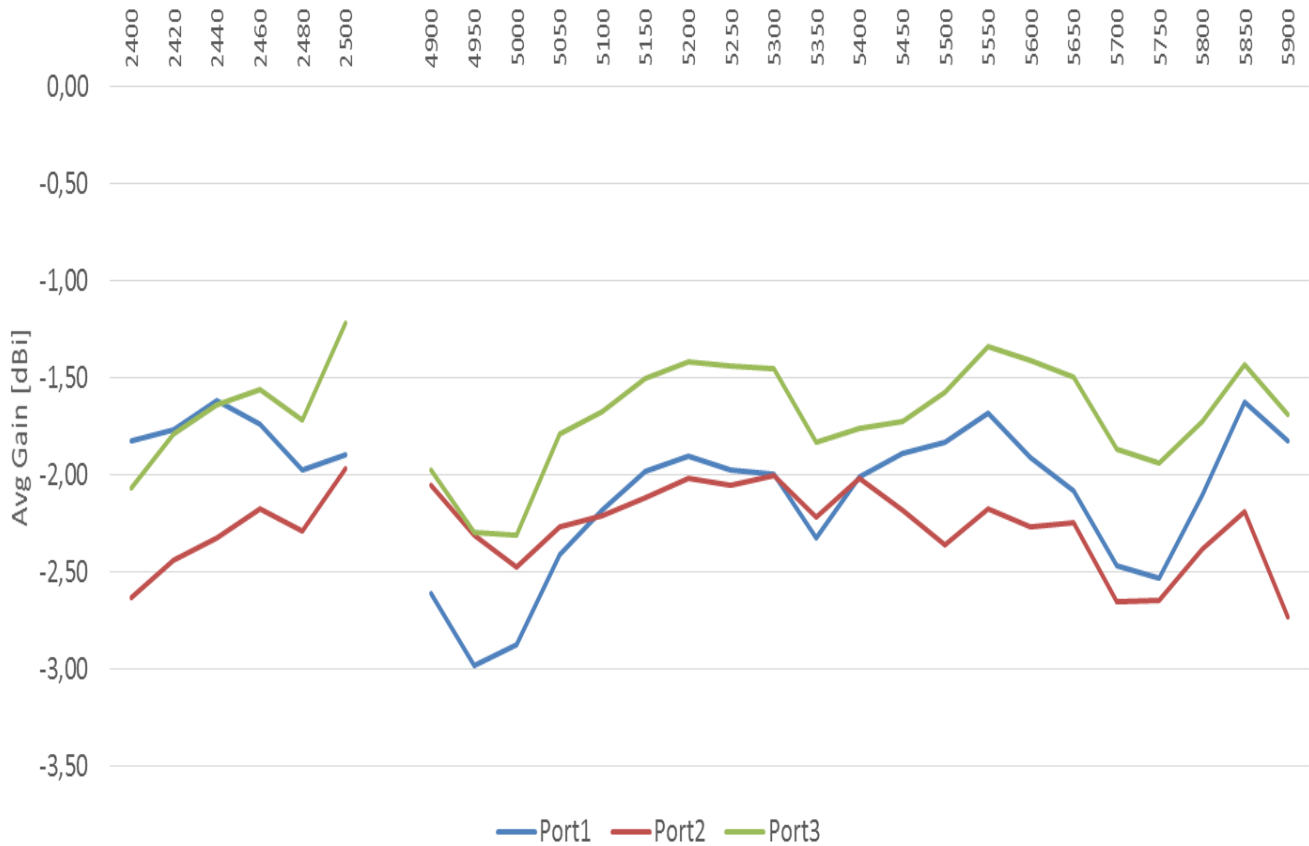
**Description: 3x3 MiMo dual band WiFi/BT  
FPC antenna**

**Series: Gemini**

**PART NUMBER: W6103B0100**

**CHARTS**

**Average Gain(dBi)**



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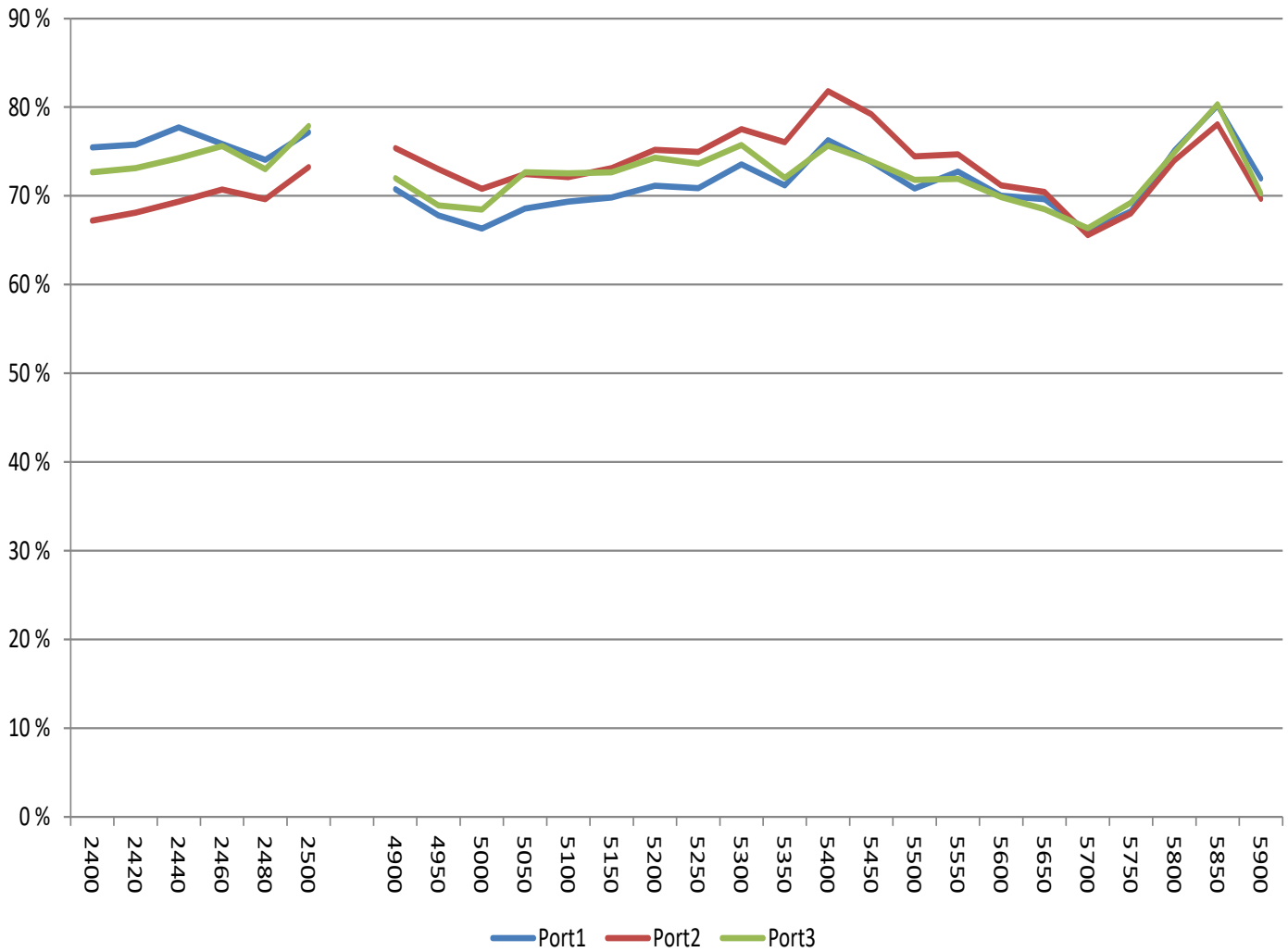
**Description: 3x3 MiMo dual band WiFi/BT  
FPC antenna**

**Series: Gemini**

**PART NUMBER: W6103B0100**

**CHARTS**

Efficiency(%)



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FPC antenna**

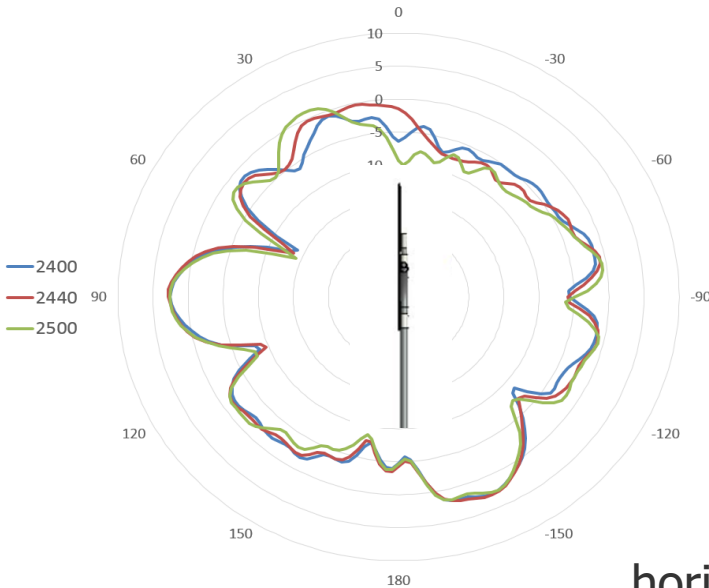
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**PART NUMBER: W6103B0100**

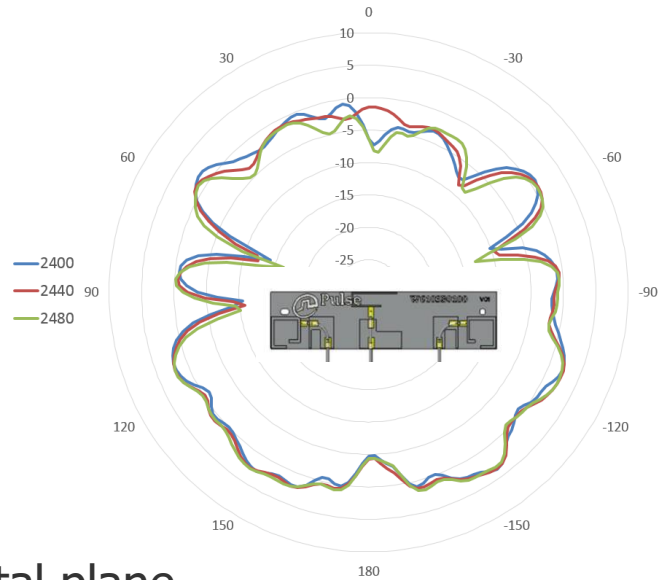
**CHARTS**

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

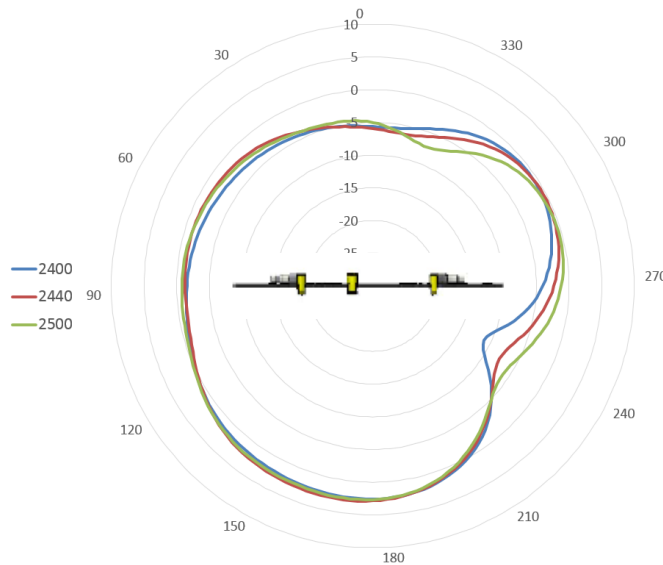
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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

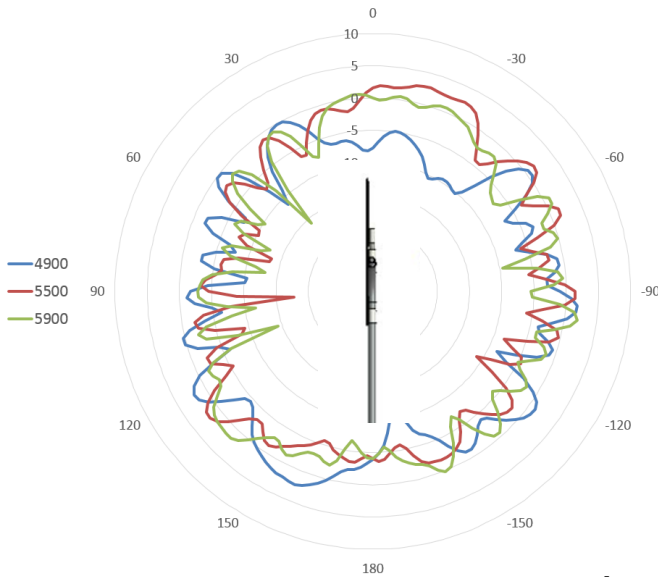
**Series: Gemini**

**PART NUMBER: W6103B0100**

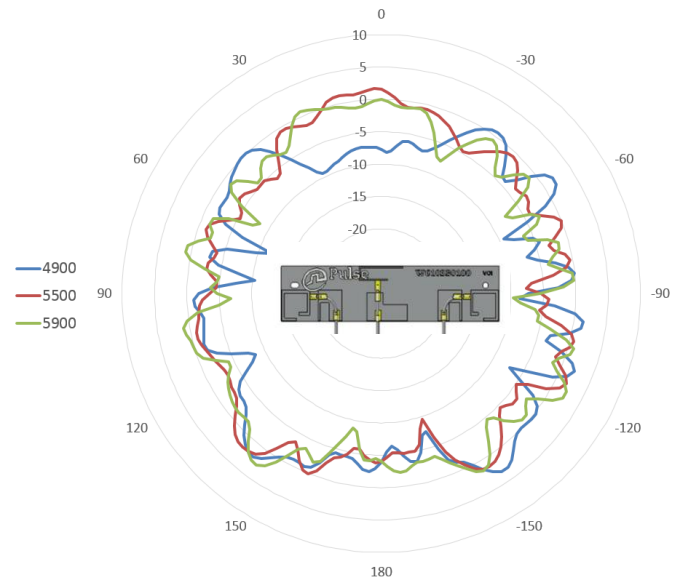
**CHARTS**

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

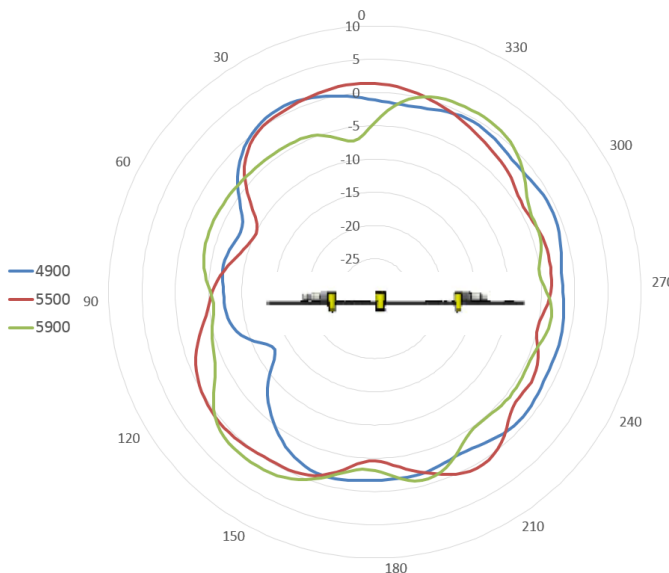
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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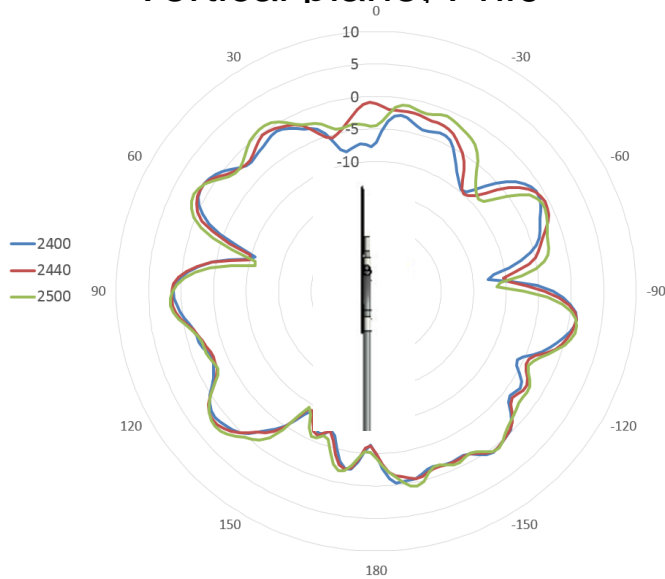
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**PART NUMBER: W6103B0100**

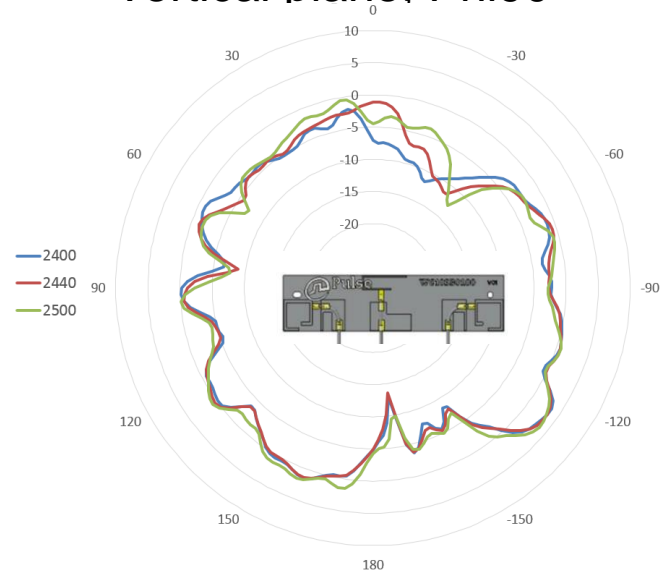
**CHARTS**

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

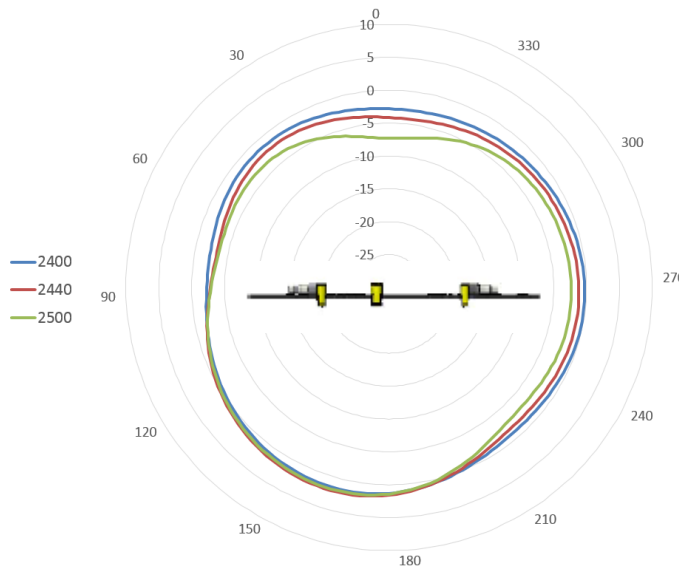
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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

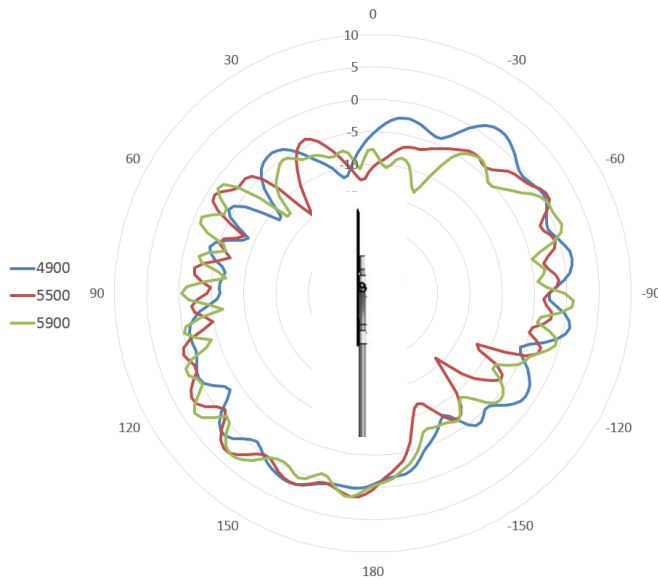
**Series: Gemini**

**PART NUMBER: W6103B0100**

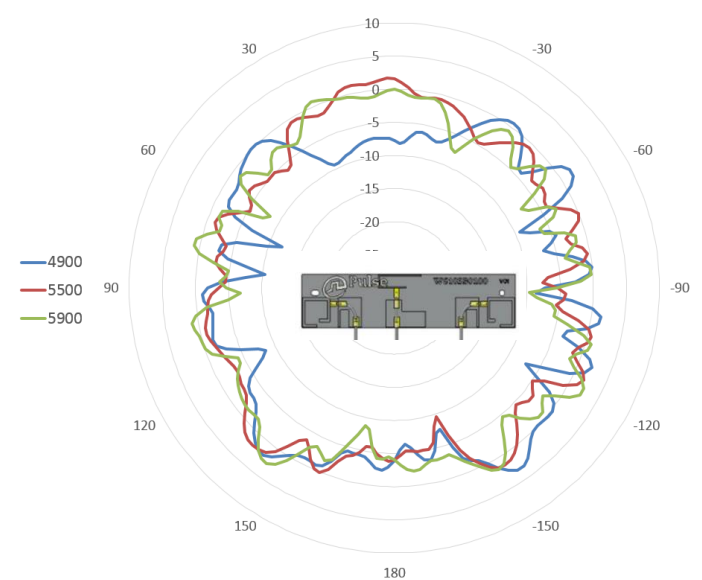
**CHARTS**

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

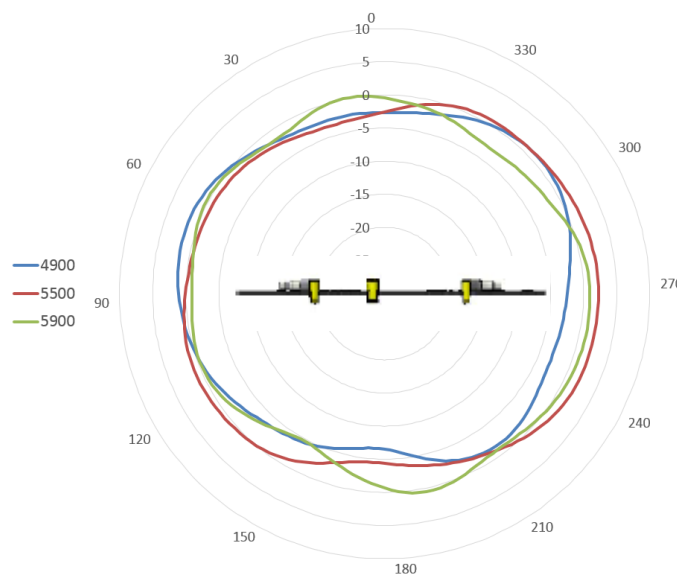
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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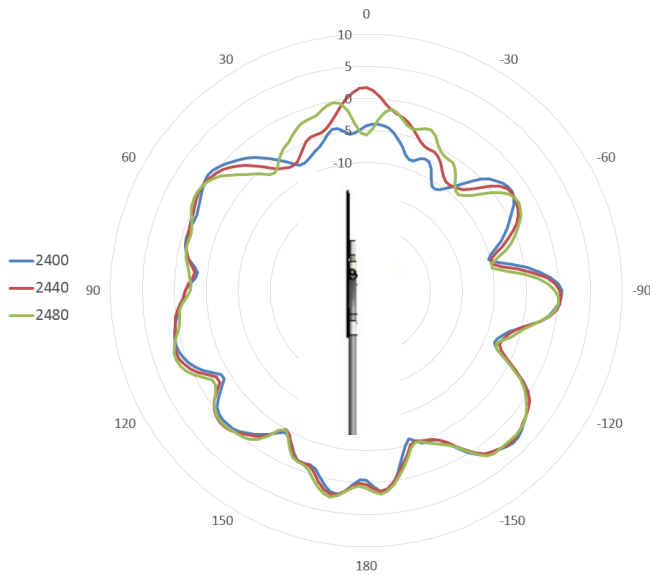
**Series: Gemini**

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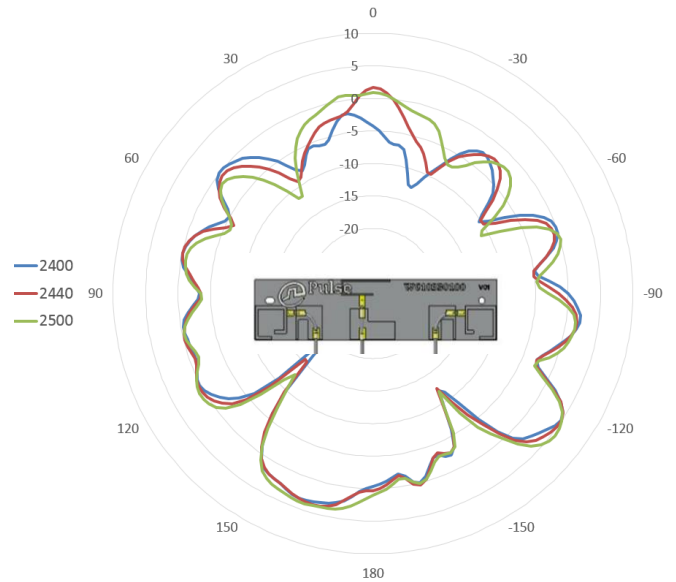
**CHARTS**

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

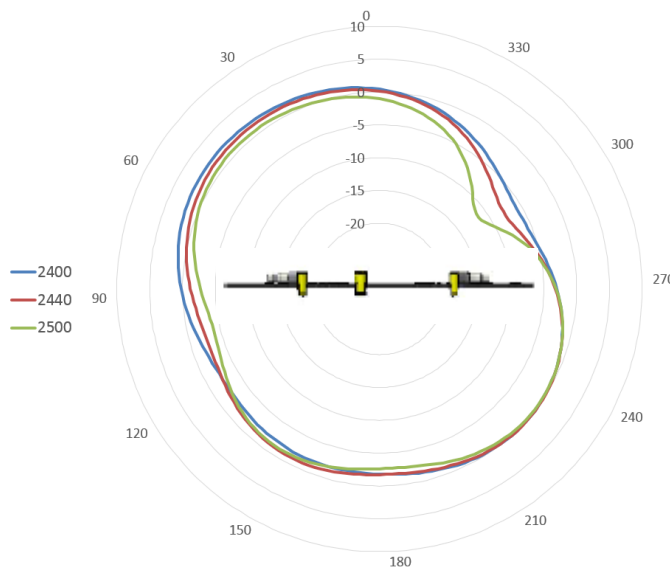
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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

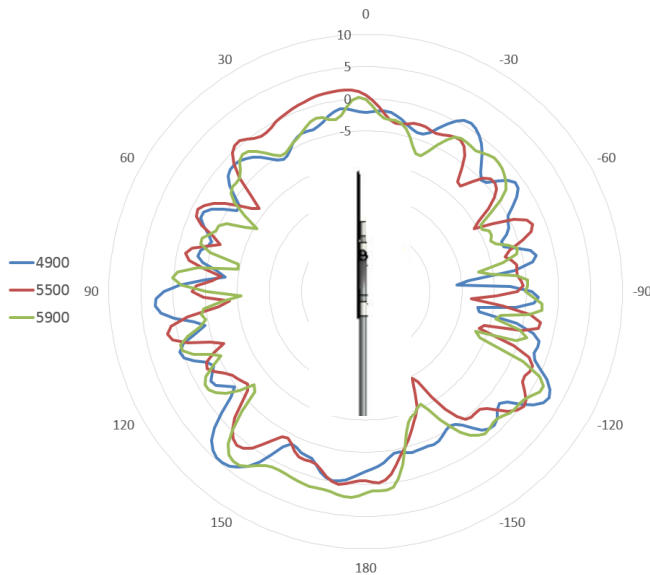
**Series: Gemini**

**PART NUMBER: W6103B0100**

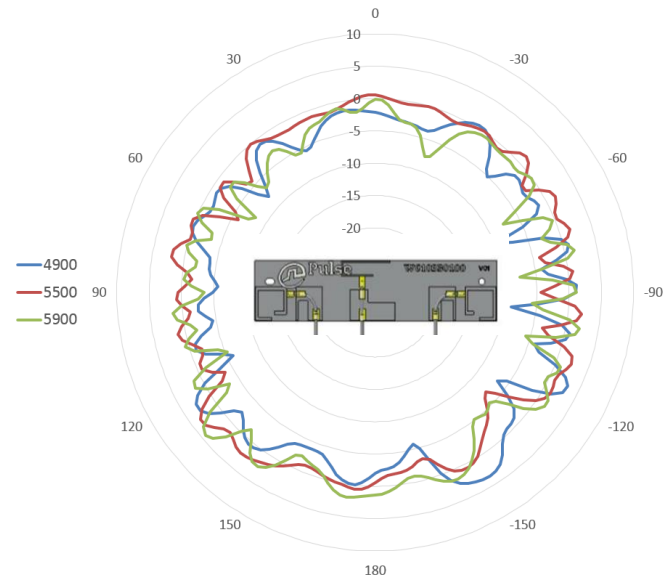
**CHARTS**

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

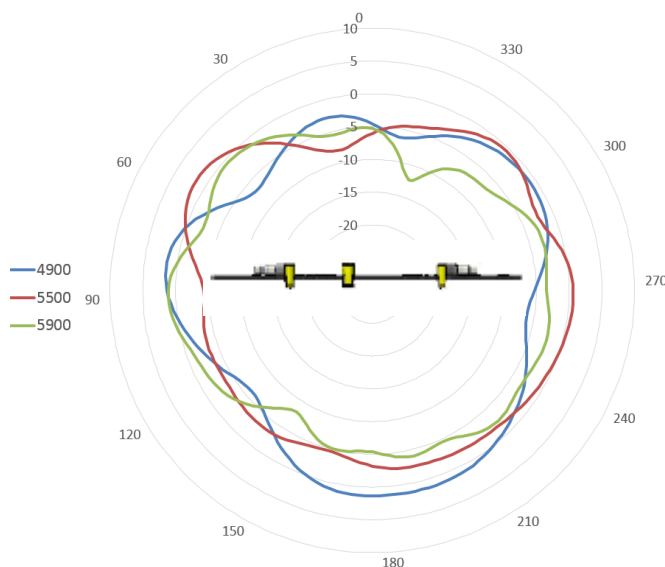
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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FPC antenna**

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**PART NUMBER: W6103B0100**

## 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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