

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

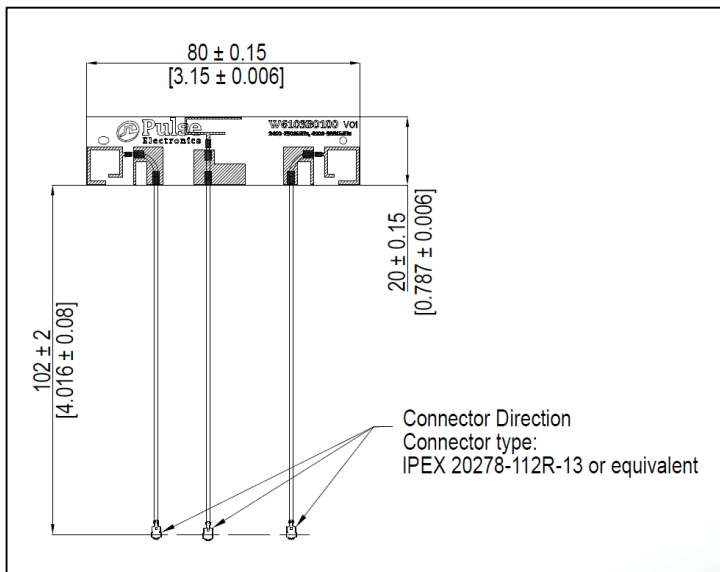
Series: Gemini

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

Issue: 1616

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Tel: 86 512 6807 9998



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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 Φ 1.13mm Coaxial Cable
Cable length	100mm

* All RF parameters measured on 2mm thick PC plate

Series: Gemini**Description: 3x3 MiMo dual band WiFi/BT
FPC antenna****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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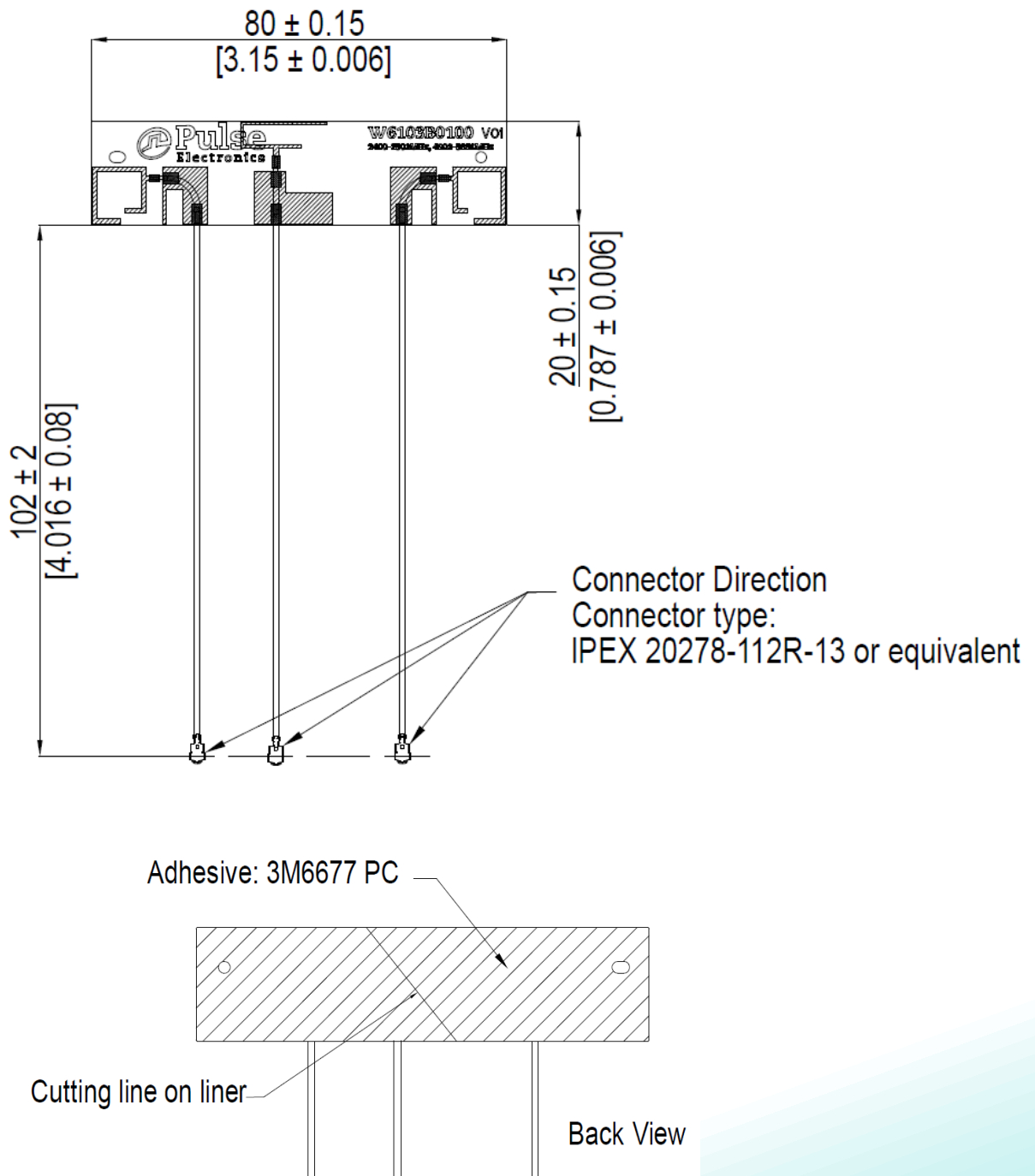
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MECHANICAL DRAWING



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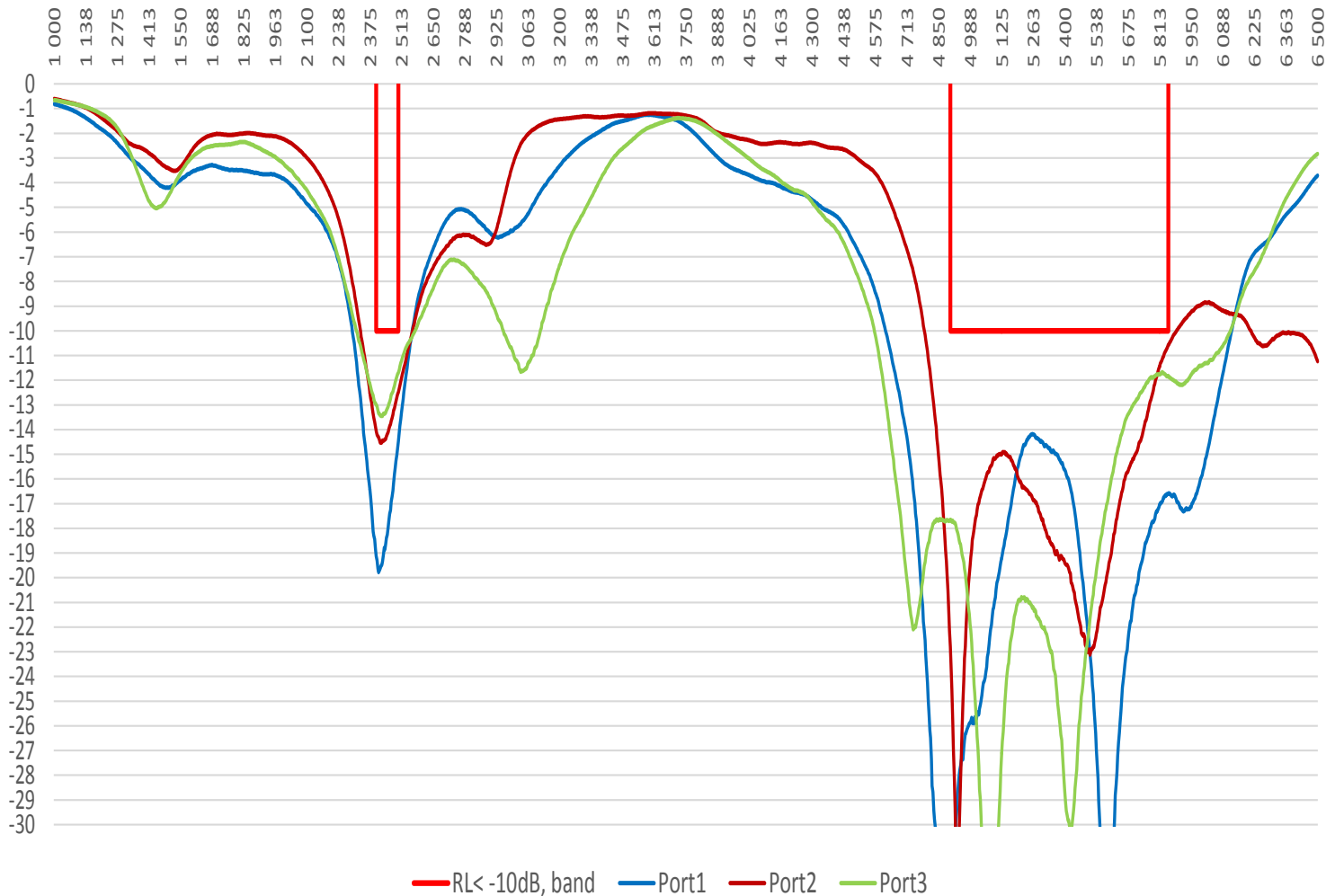
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CHARTS

Return Loss



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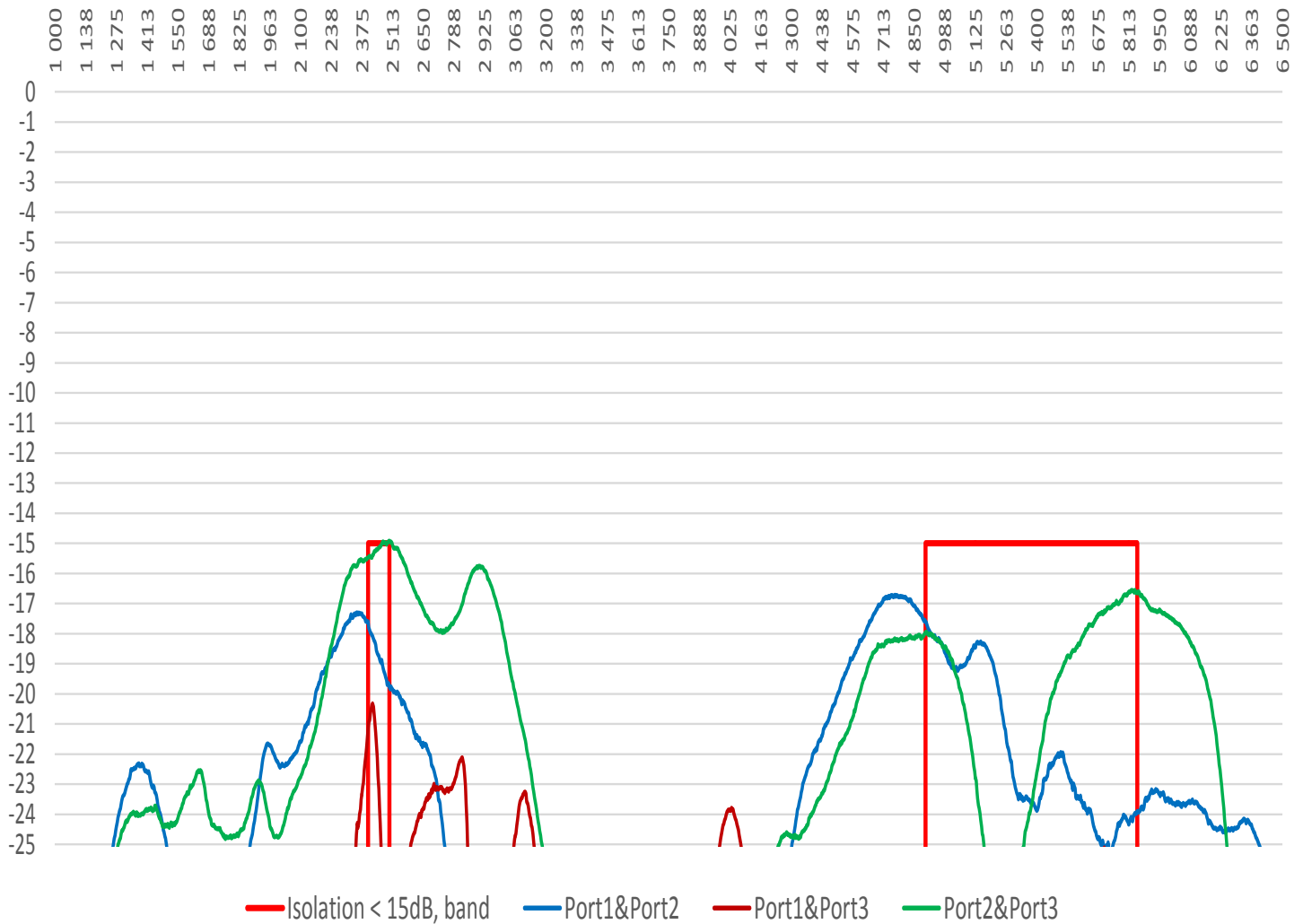
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CHARTS

Port to port isolation



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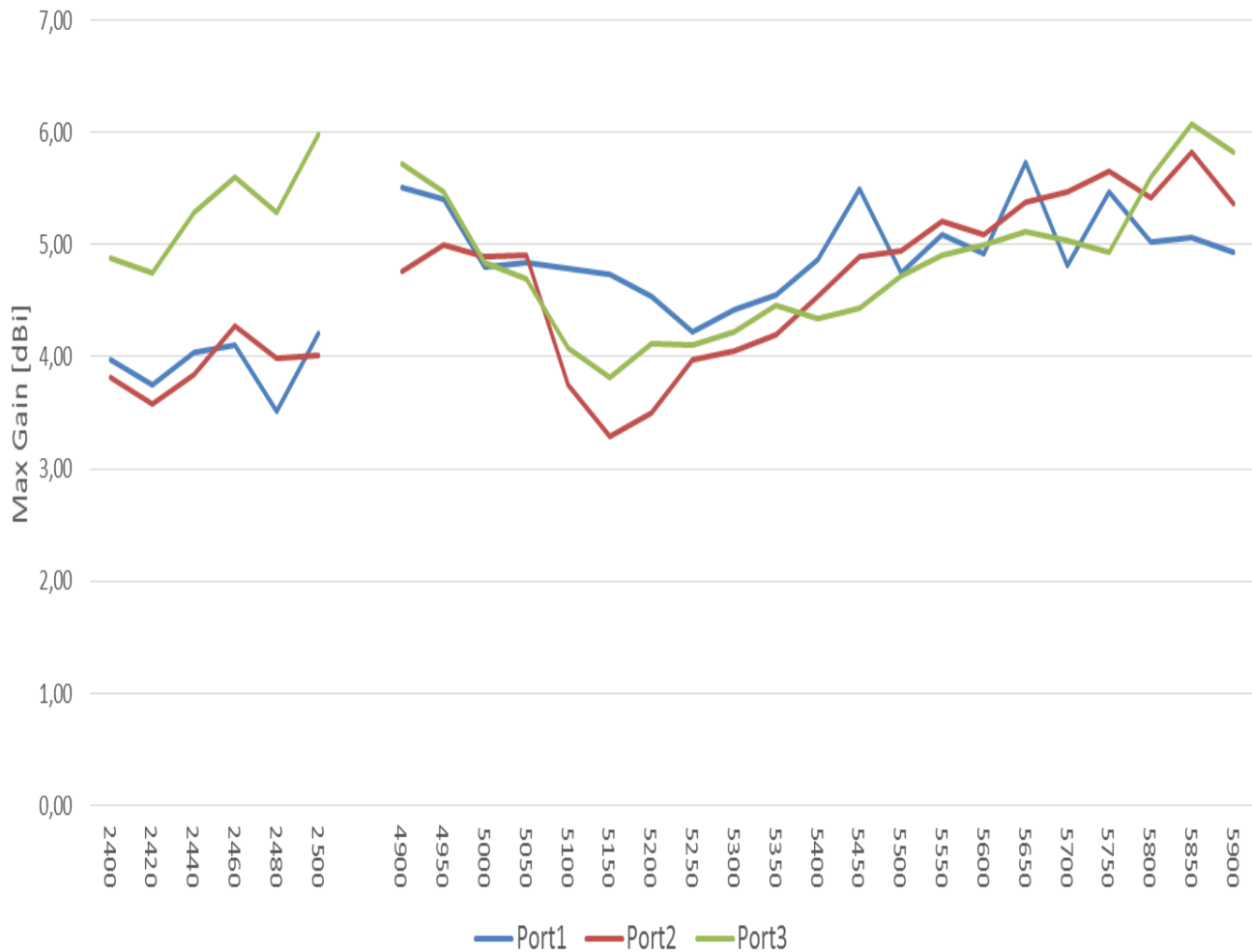
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CHARTS

Peak Gain(dBi)



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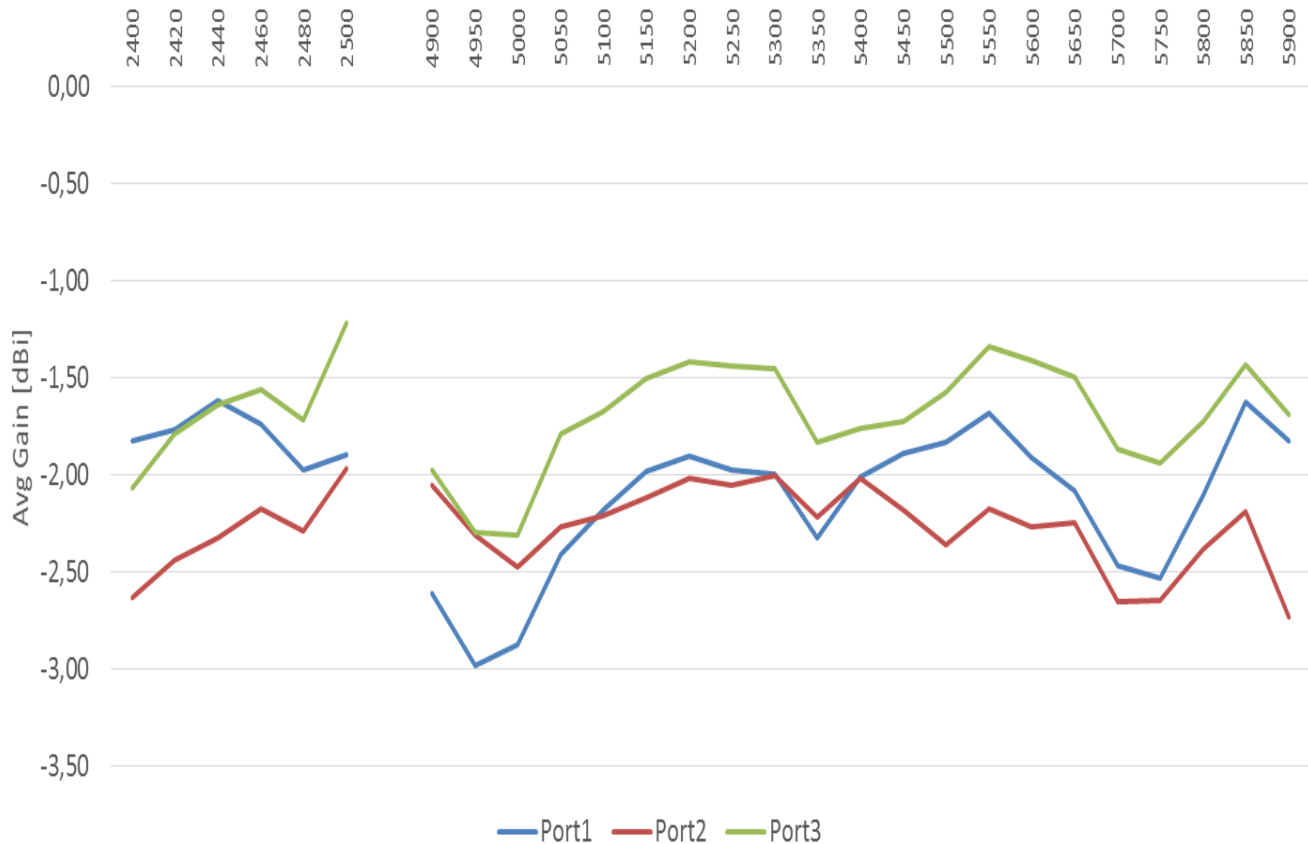
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CHARTS

Average Gain(dBi)



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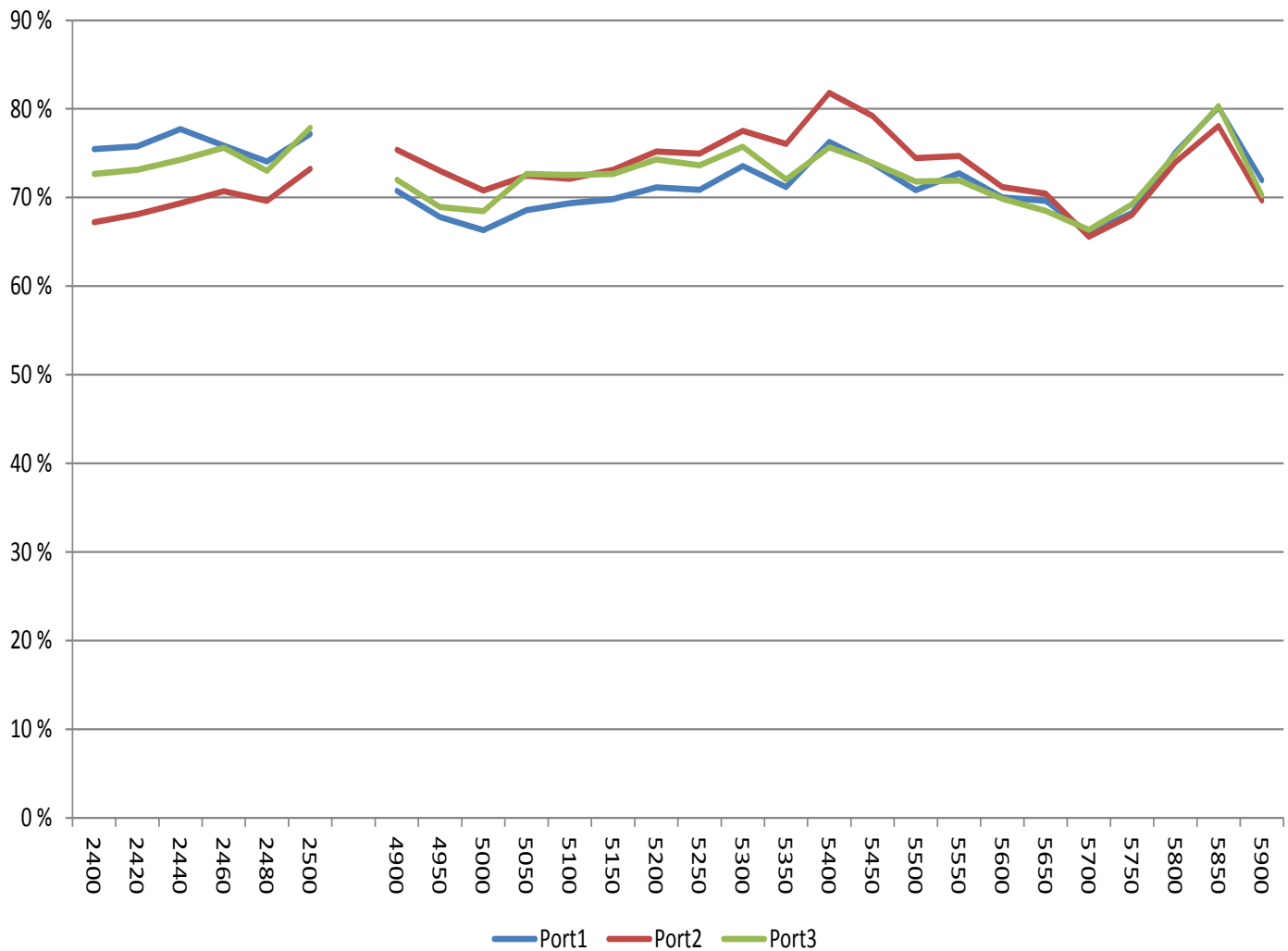
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CHARTS

Efficiency(%)



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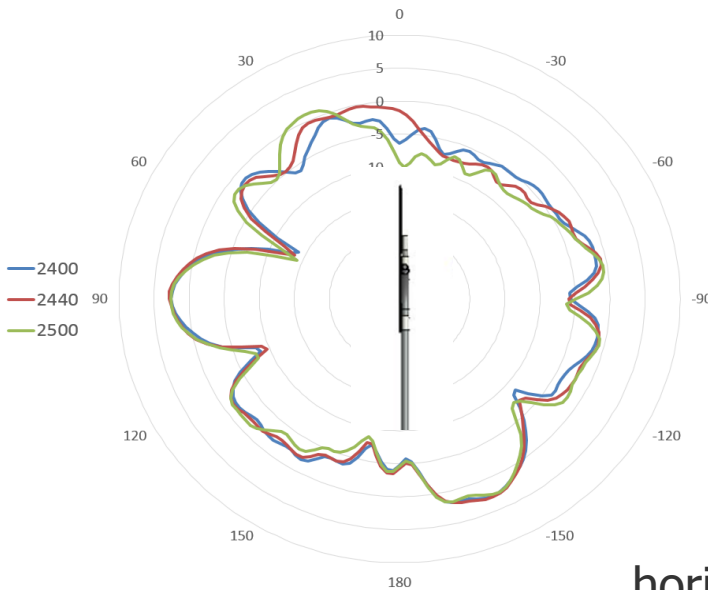
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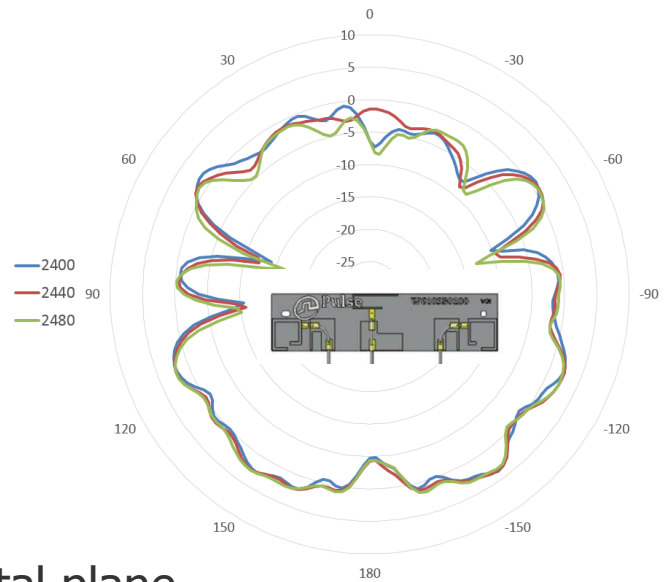
CHARTS

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

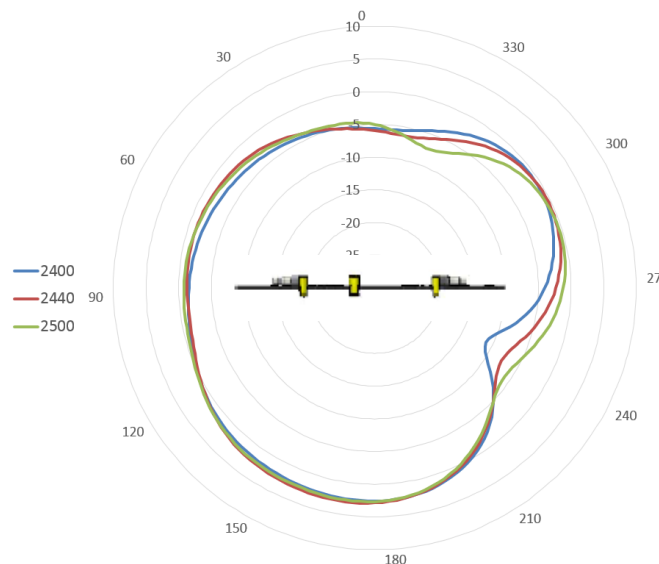
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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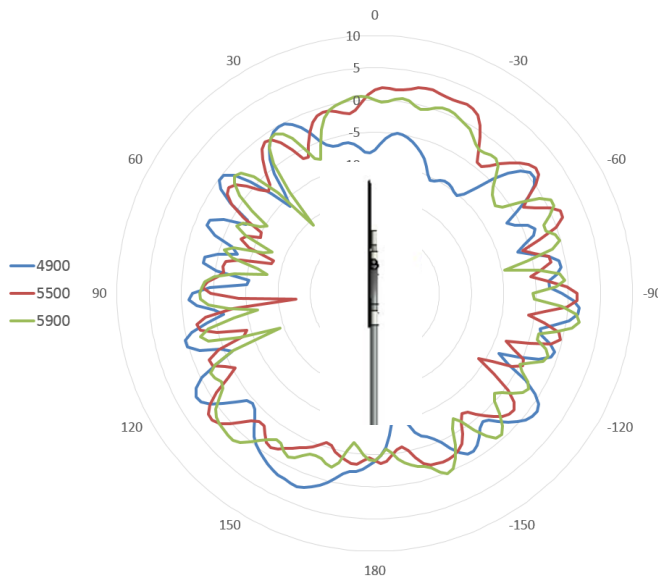
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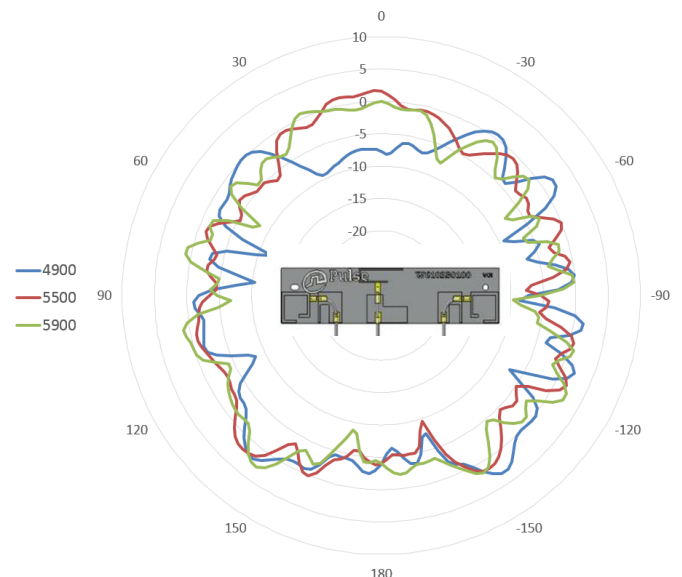
CHARTS

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

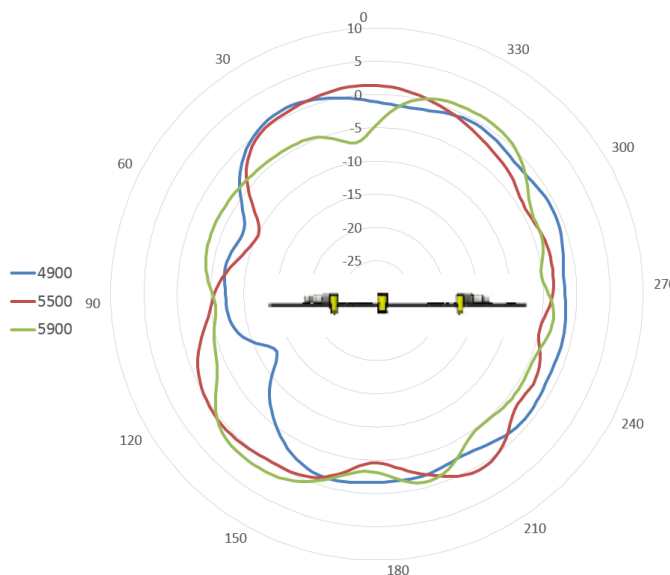
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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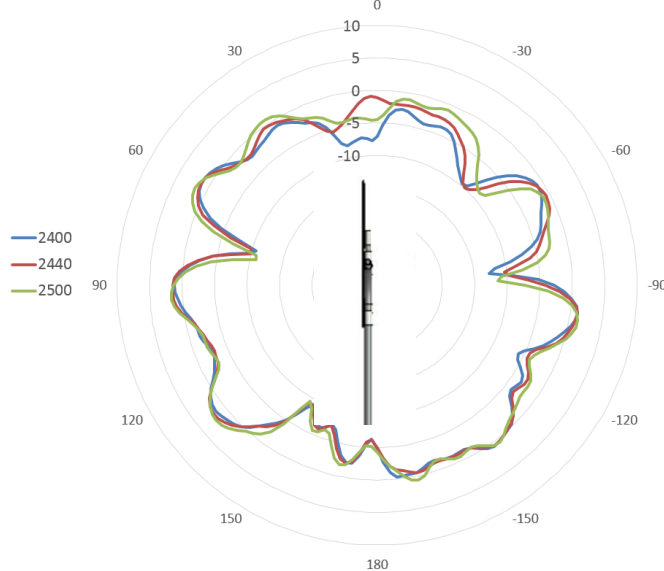
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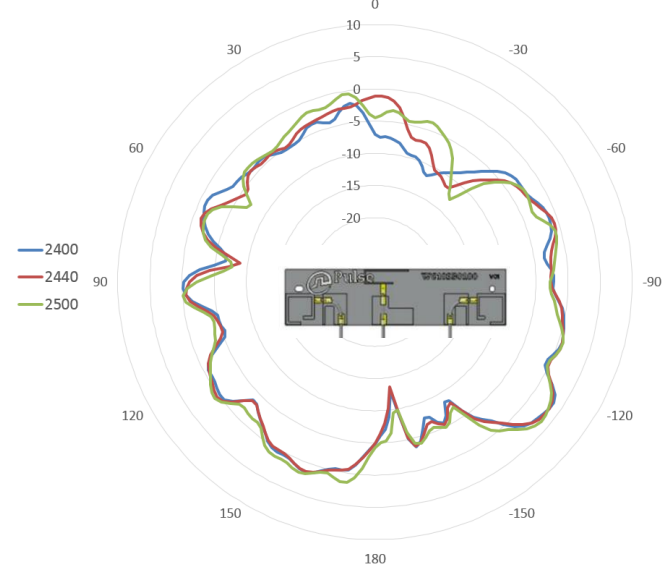
CHARTS

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

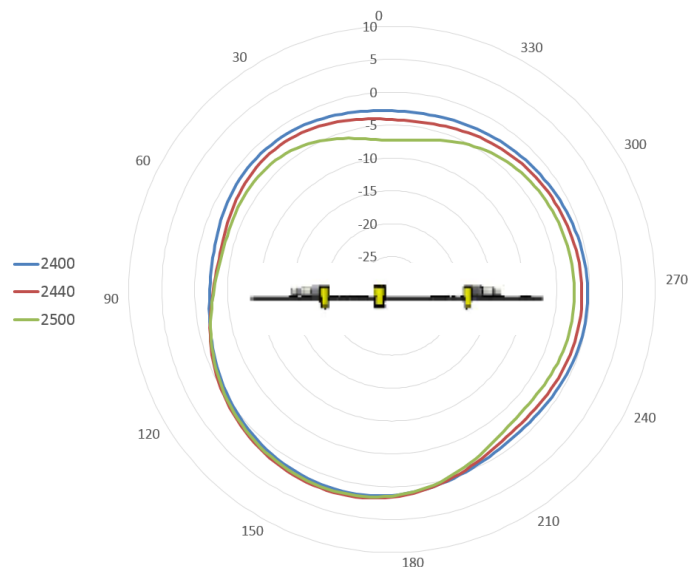
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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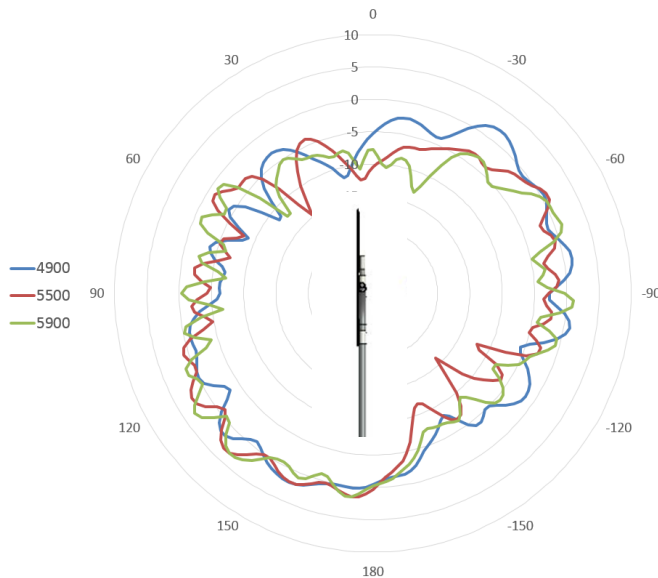
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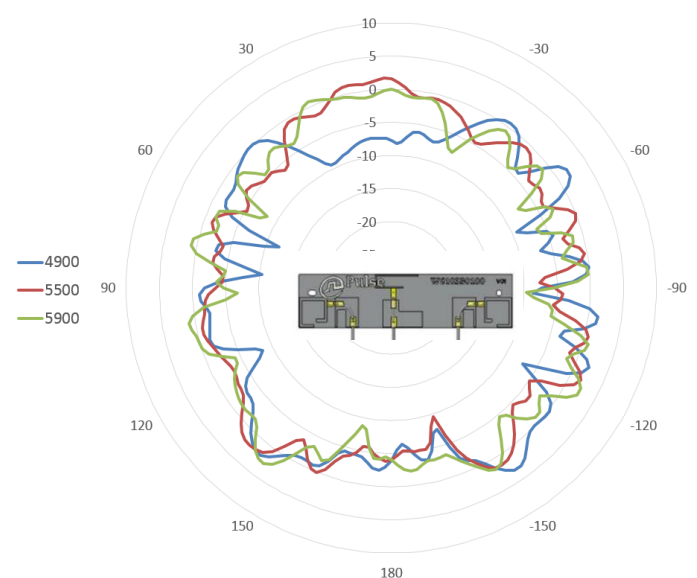
CHARTS

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

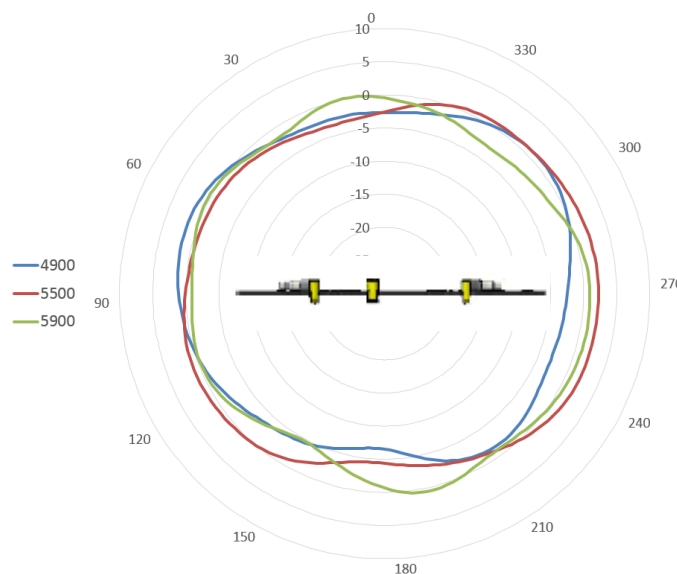
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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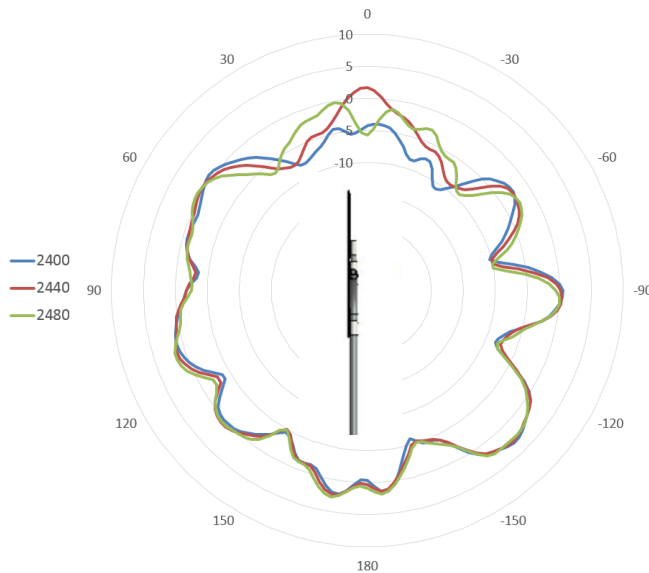
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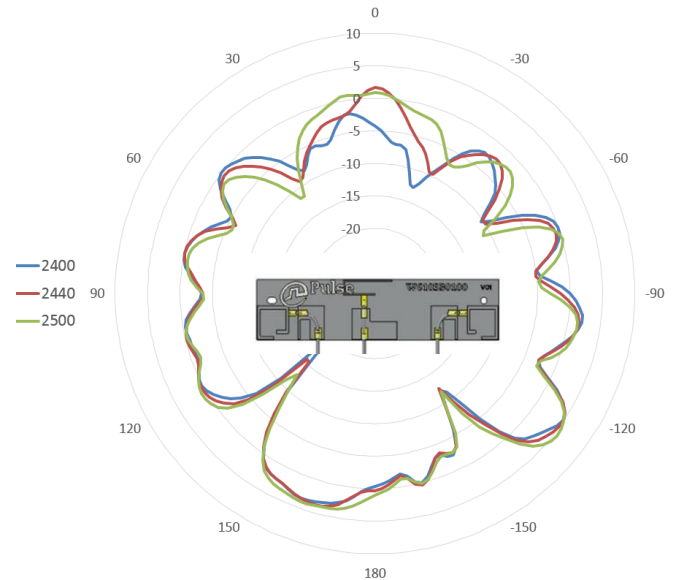
CHARTS

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

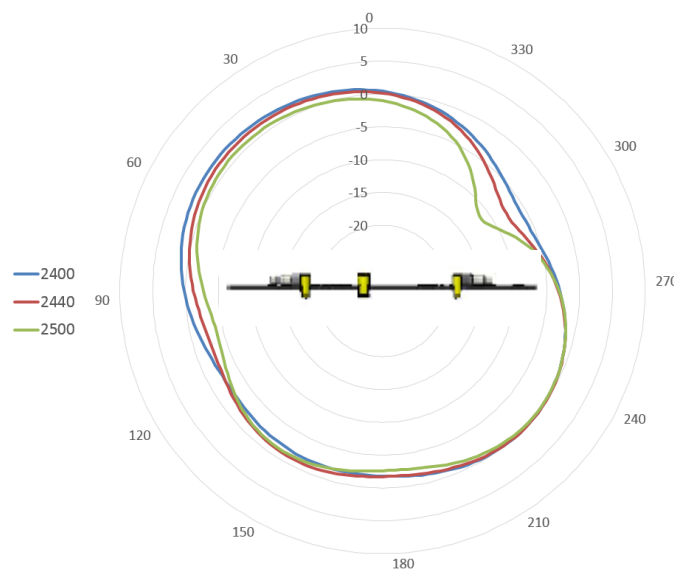
Vertical plane, Phi0



Vertical plane, Phi90



horizontal plane



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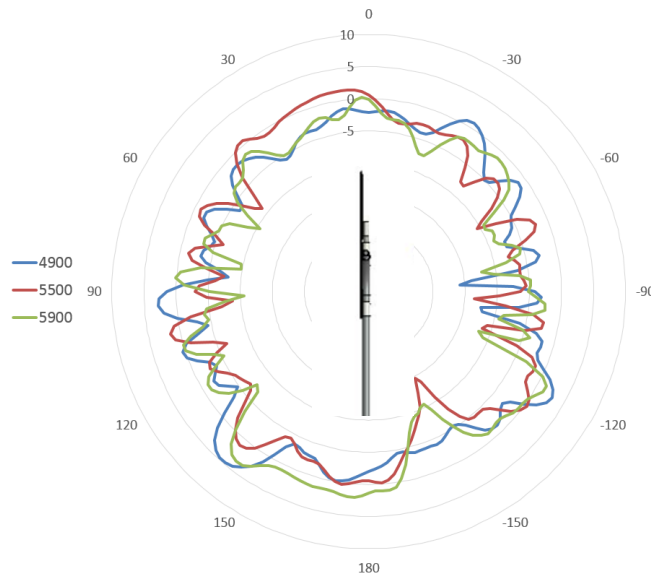
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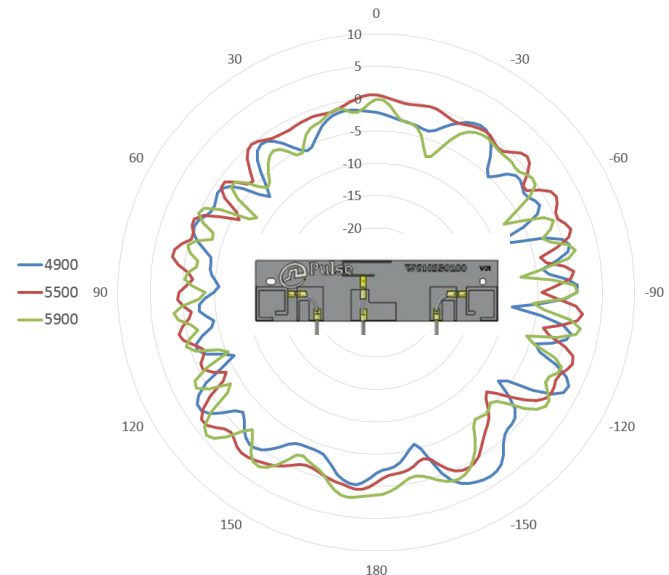
CHARTS

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

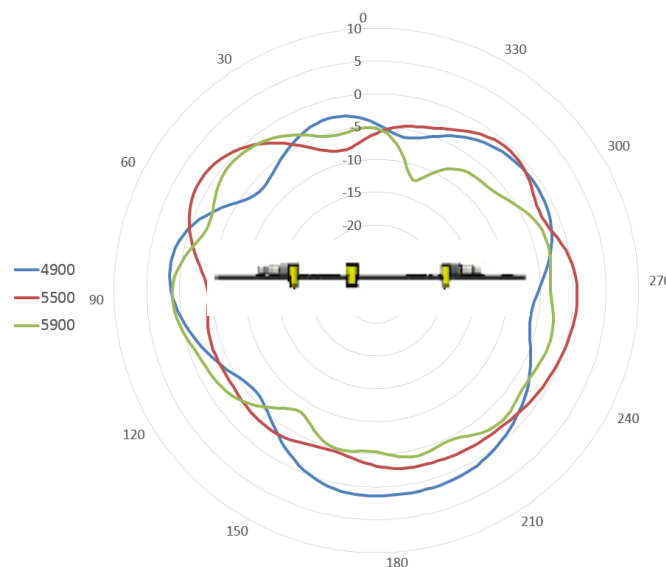
Vertical plane, Phi0



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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