



Features:

- 2400-2500MHz
- Efficiency >70%
- Gain > 3dBi
- Size 21.5x11x1.6mm
- Radiation pattern Omni
- RoHS Compliant

Applications:

- ISM band 2.4GHz radios
- Bluetooth, BLE, WiFi
- 2.4GHz MiMo applications
- IoT
- Security, Telematics

All dimensions are in mm / inches

Issue: 1812

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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Description: 2.4GHz Vertical Mount PCB
Antenna

Series: Embedded PCB Ant

PART NUMBER: W3716

ELECTRICAL SPECIFICATIONS

Frequency	2400-2500 MHz
Nominal Impedance	50 Ω
*VSWR	1.6:1
Radiation Pattern	Omni
*Gain	>3dBi
*Efficiency	>70%
Polarization	Vertical
Power Withstanding	2 W

MECHANICAL SPECIFICATIONS

Overall Length	21.5x11x1.6mm
Weight	0.65g
Antenna material	PCB antenna
Fix system	Solder

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40° C~85 ° C
Storage Temperature	-40° C~85 ° C
RoHS Compliant	Yes

OTHER SPECIFICATIONS

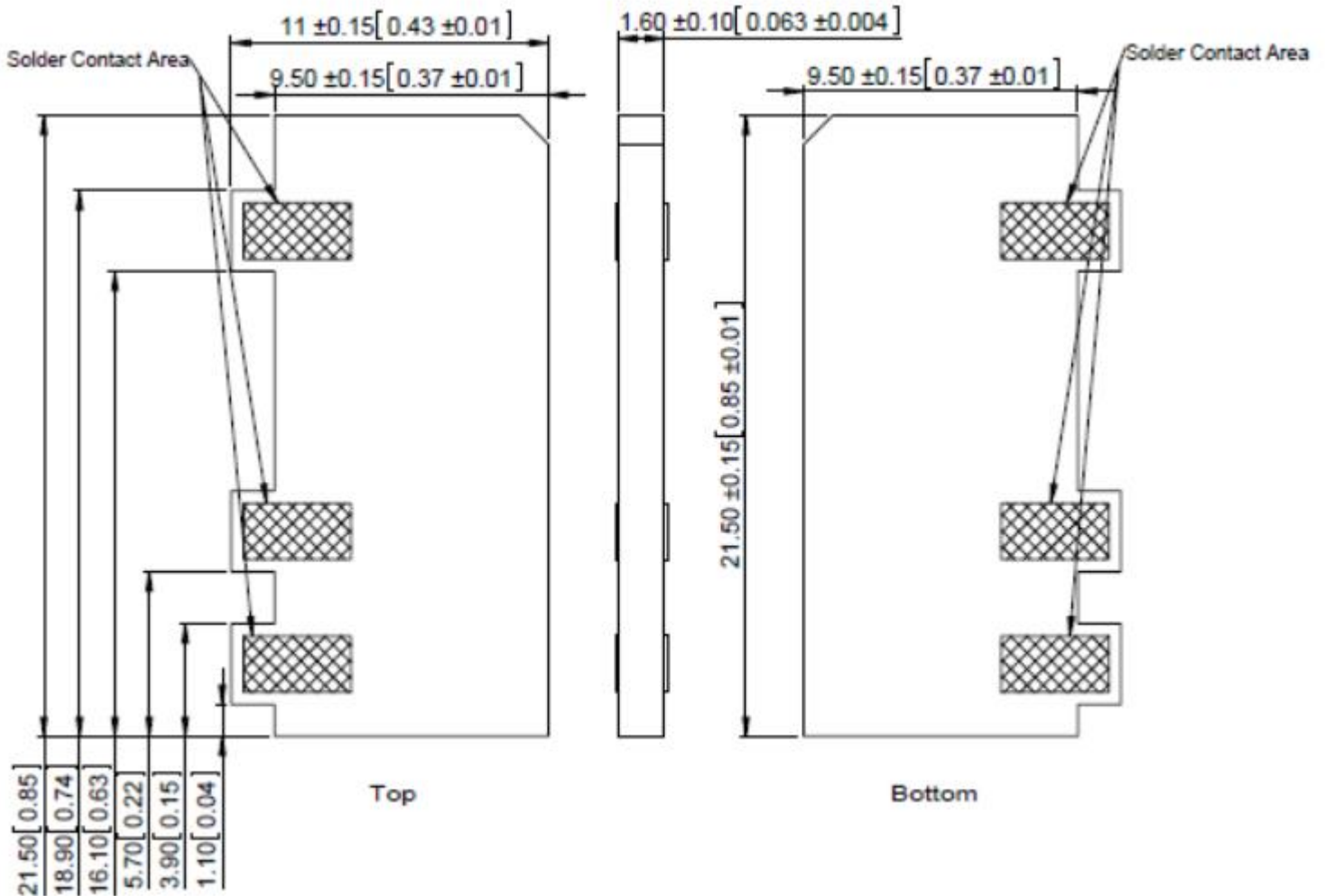
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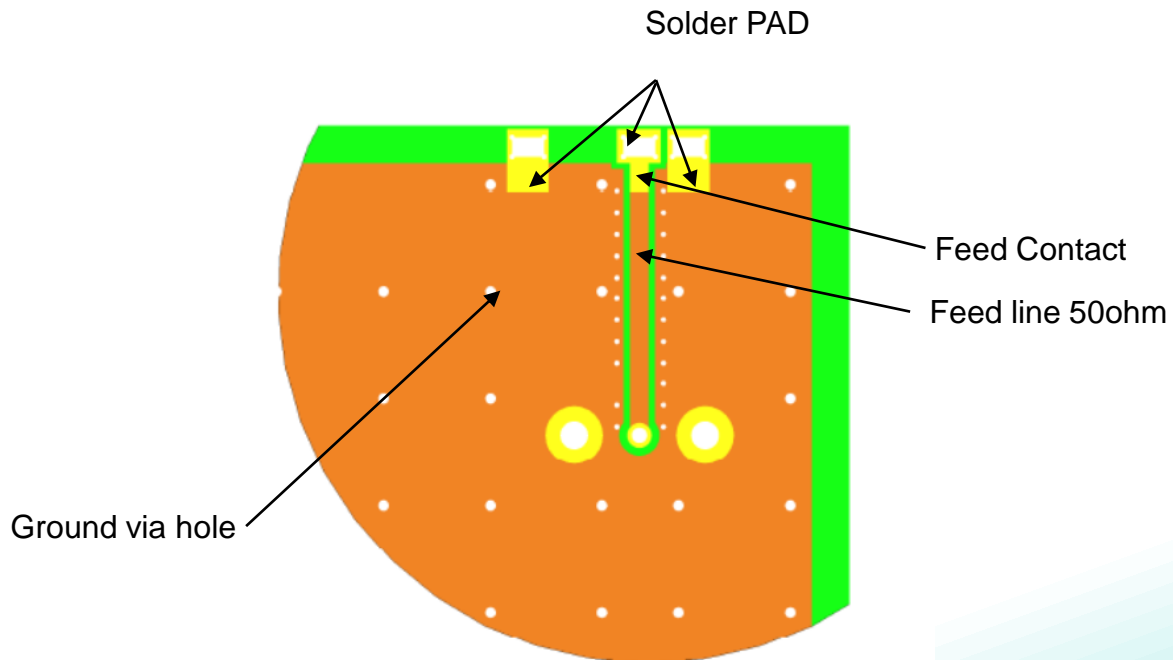
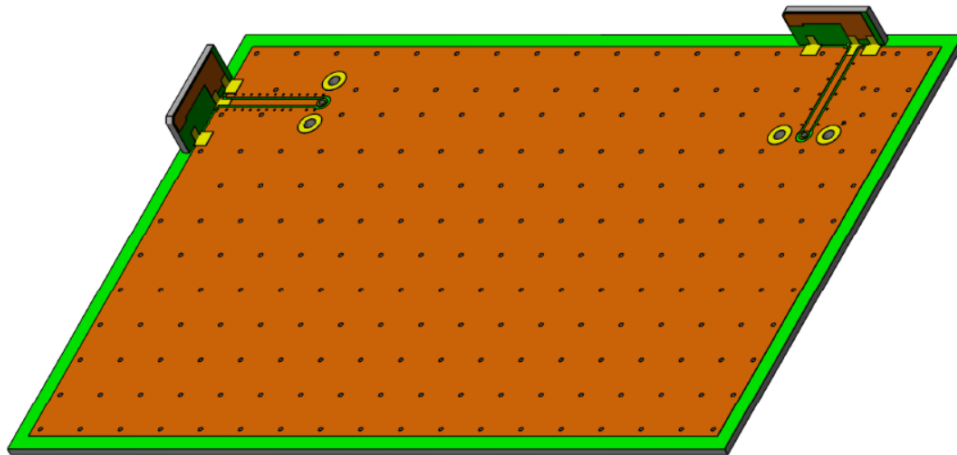
MECHANICAL DRAWING



Dimension Unit: mm[Inch]

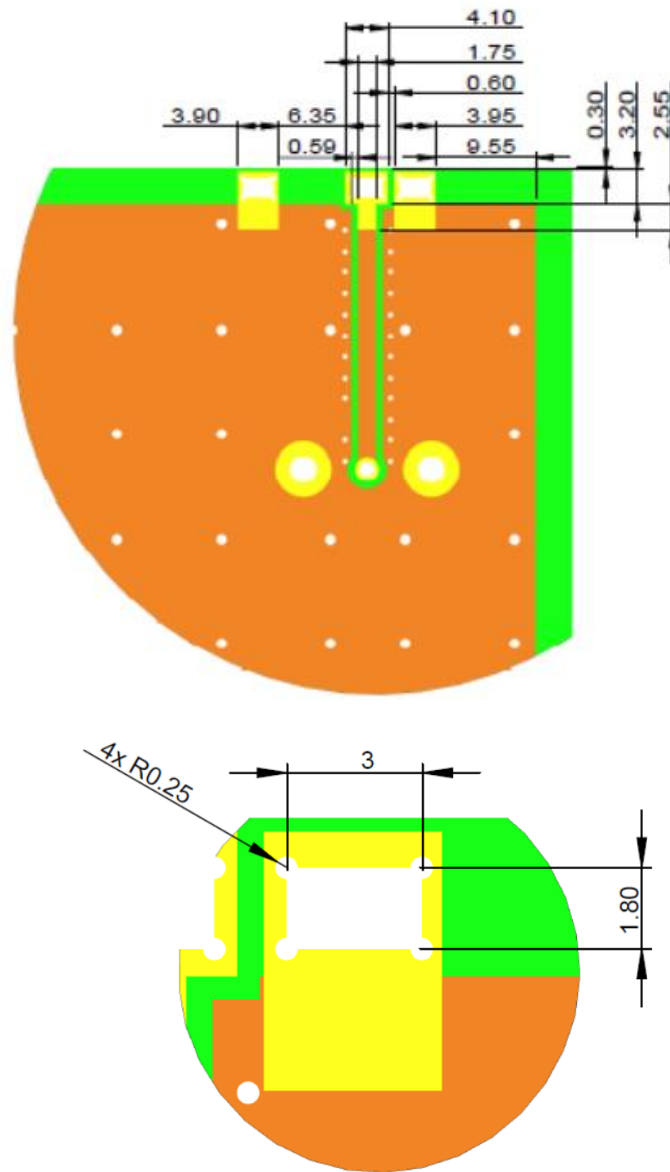
TEST SETUP

Test PWB for PCB Antenna W3716



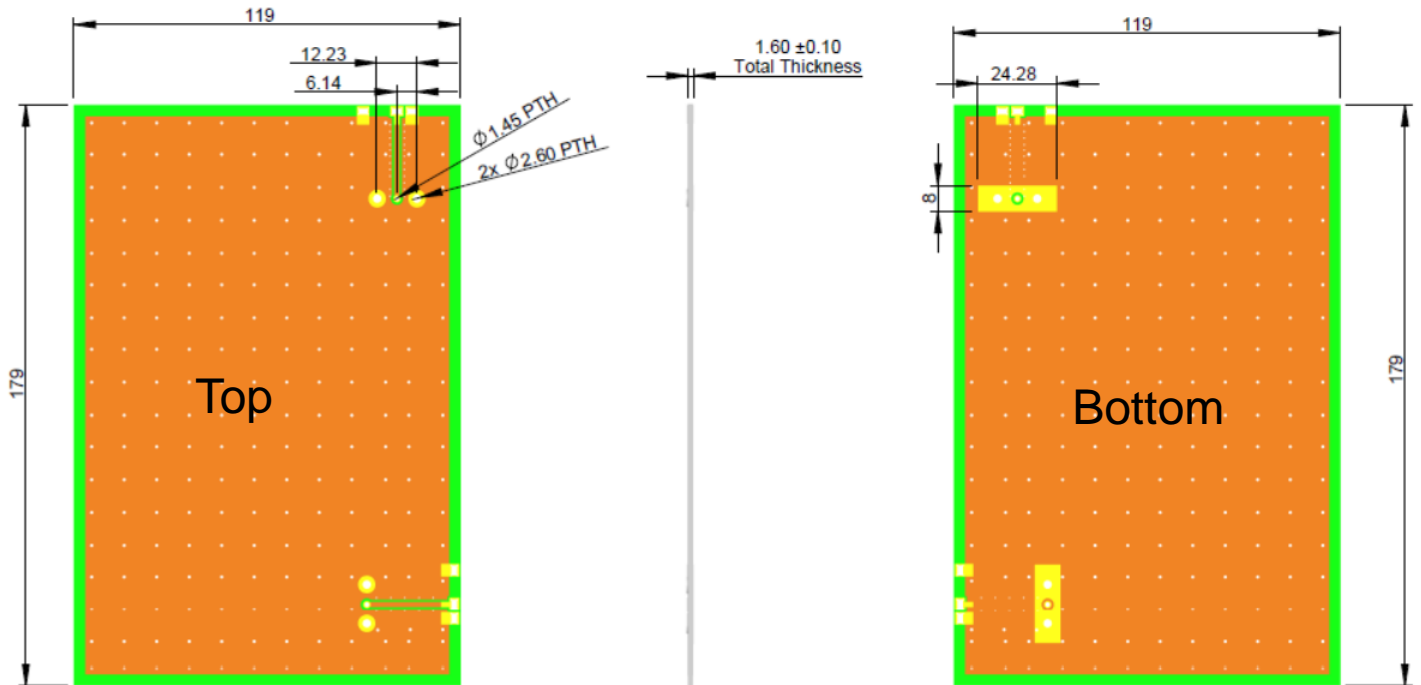
TEST SETUP

PWB PAD Dimension in top copper

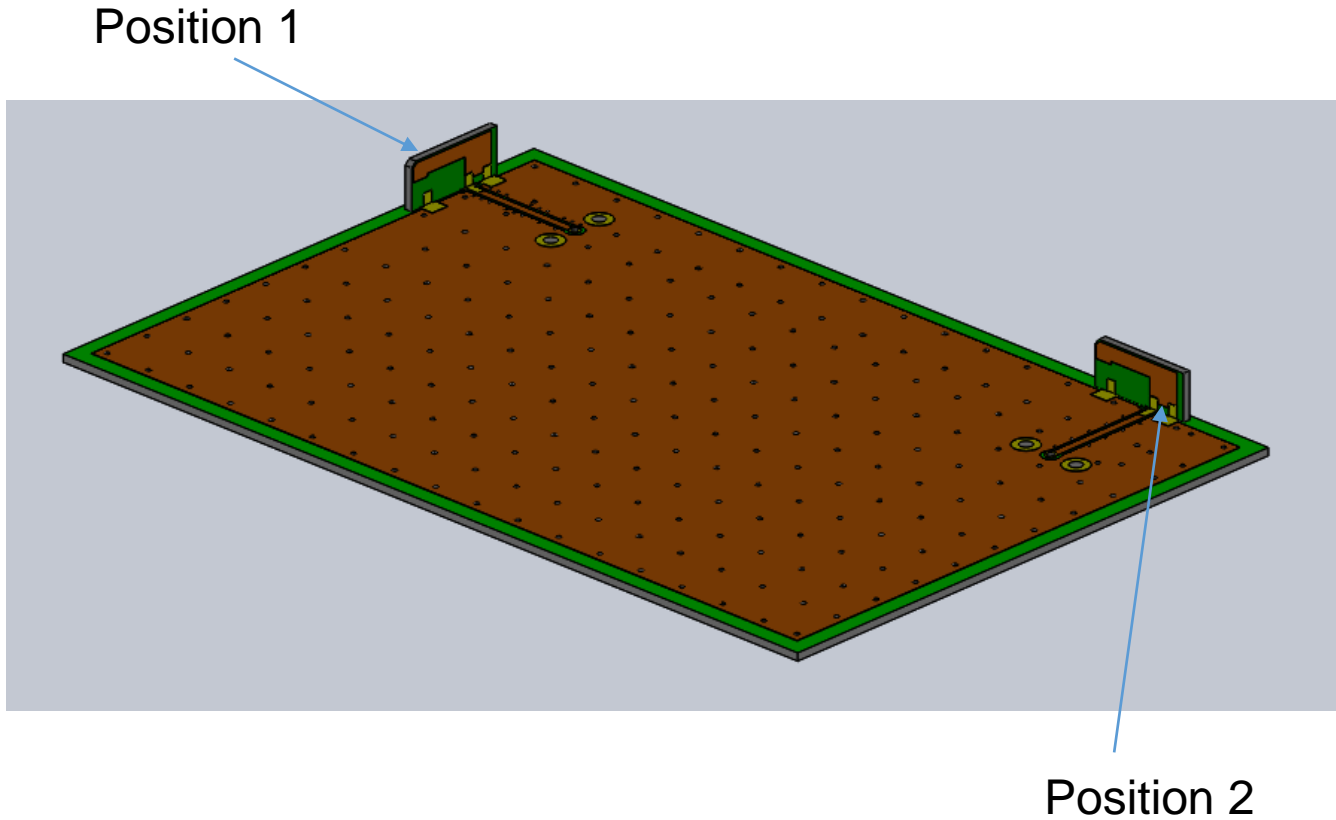


TEST SETUP

PWB Layout, Pulse PWB size; 119x179mm, thickness 1.6mm, other size boards can be used depending on customer size.



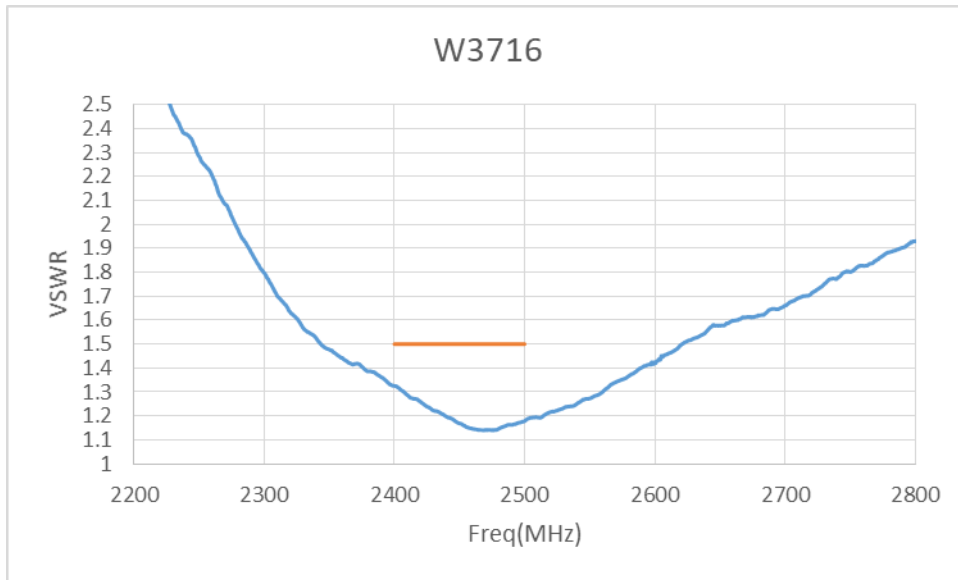
TEST SETUP



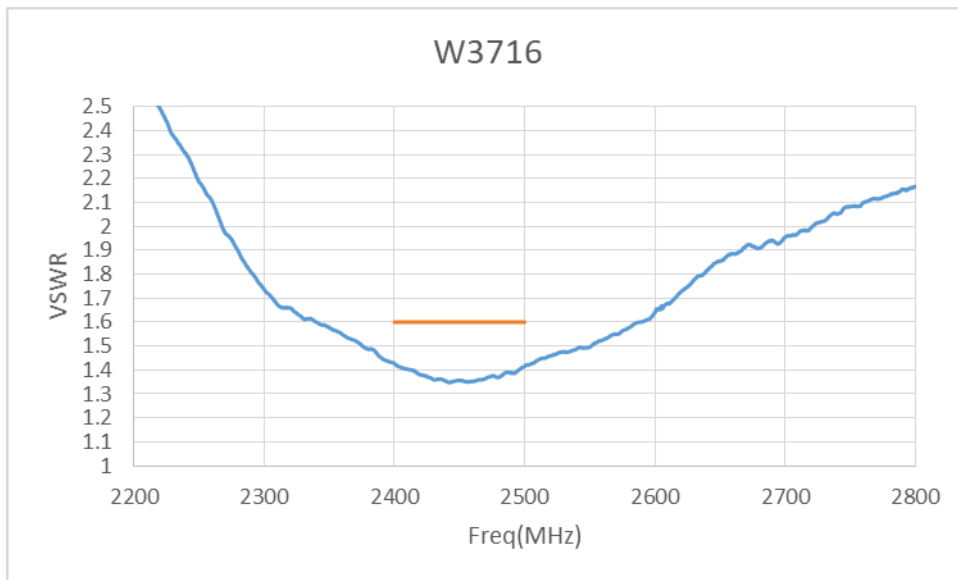
Test on Pulse test board in free space.

CHARTS

VSWR at position 1



VSWR at position 2



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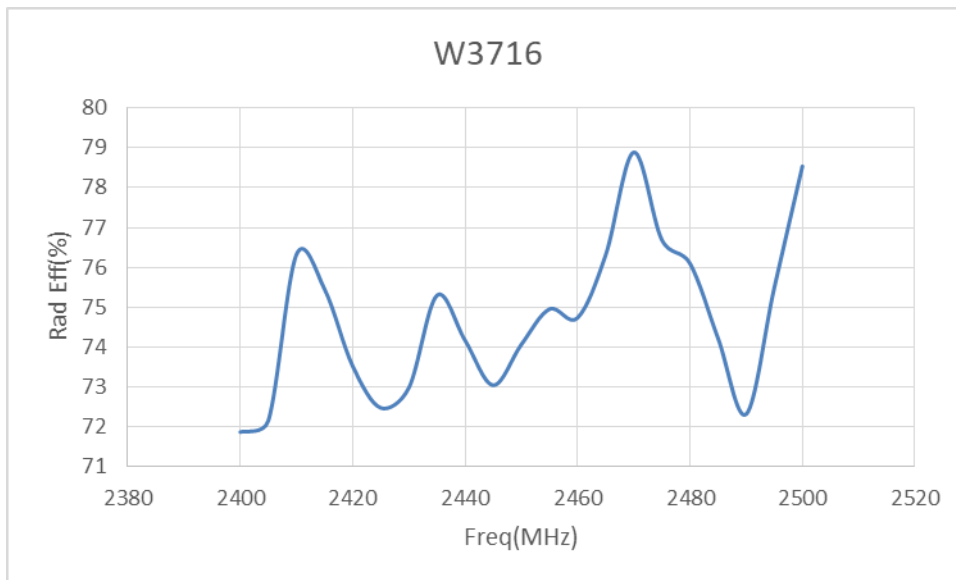
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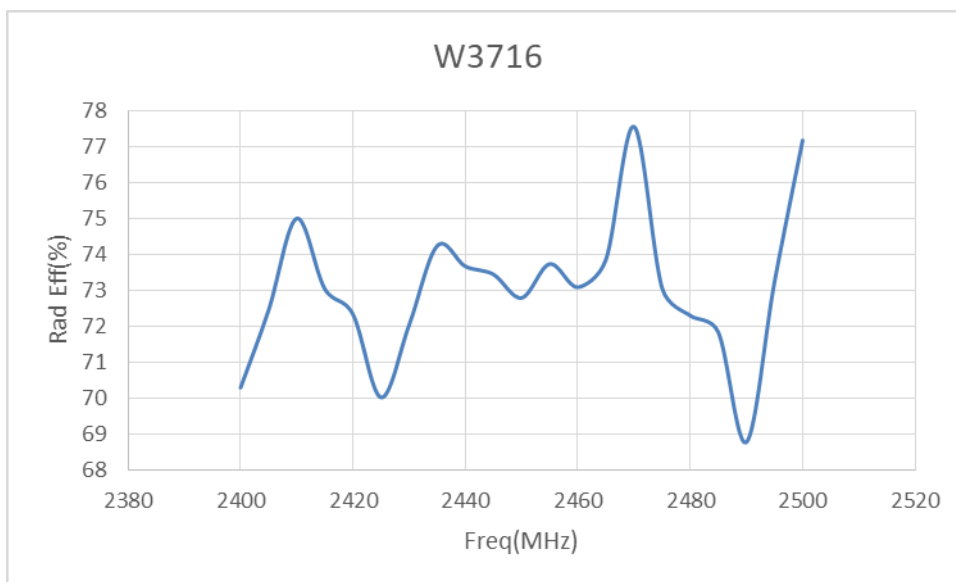
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CHARTS

Radiation Efficiency at position 1



Radiation Efficiency at position 2



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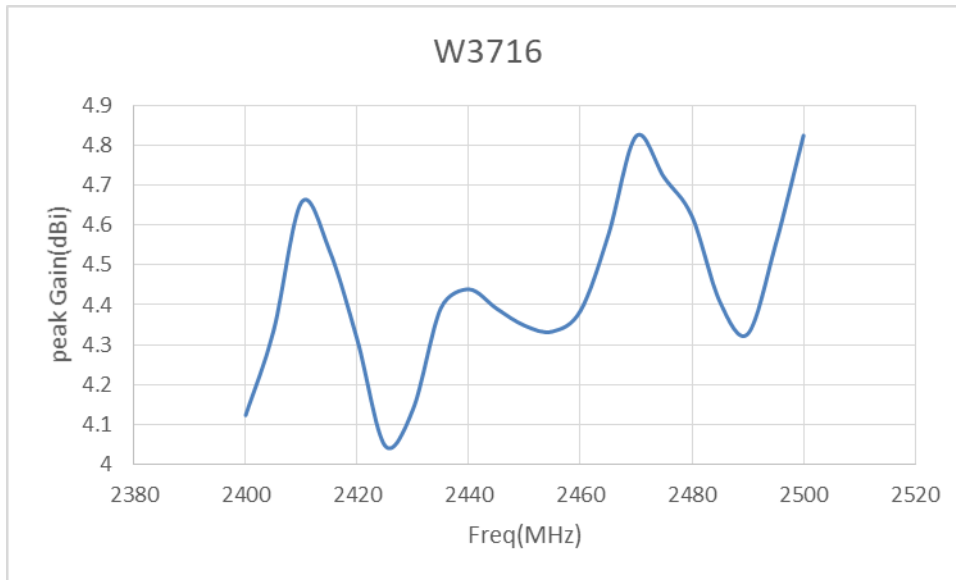
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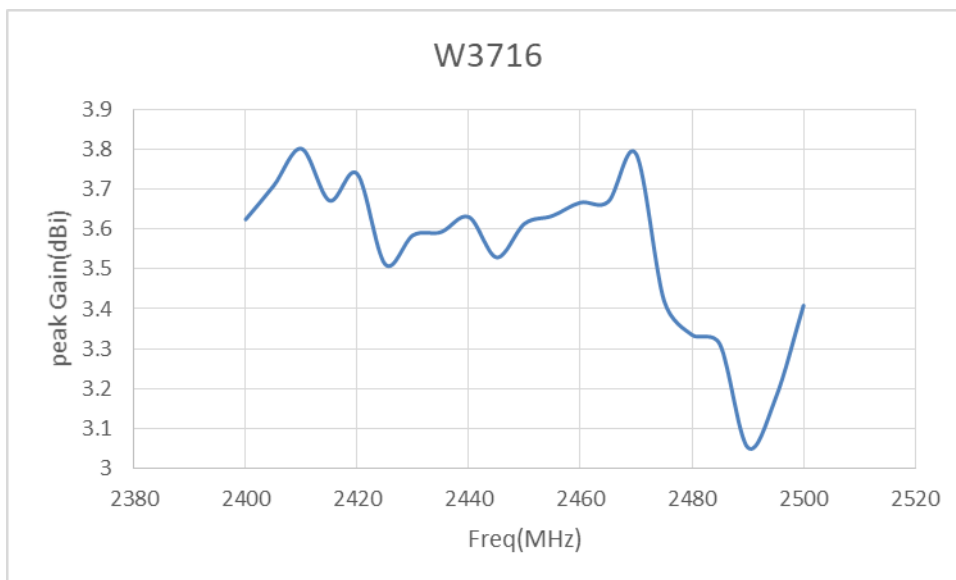
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CHARTS

Peak Gain at position 1



Peak Gain at position 2



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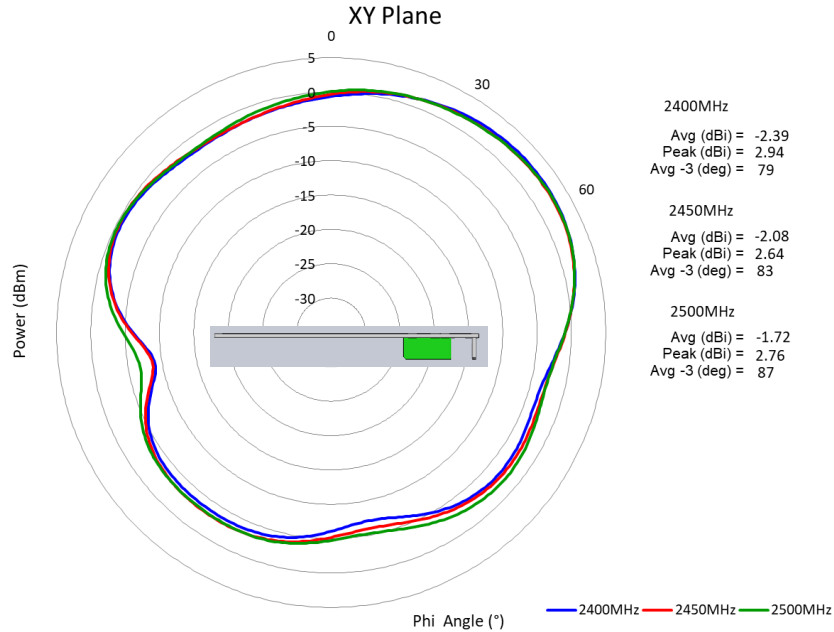
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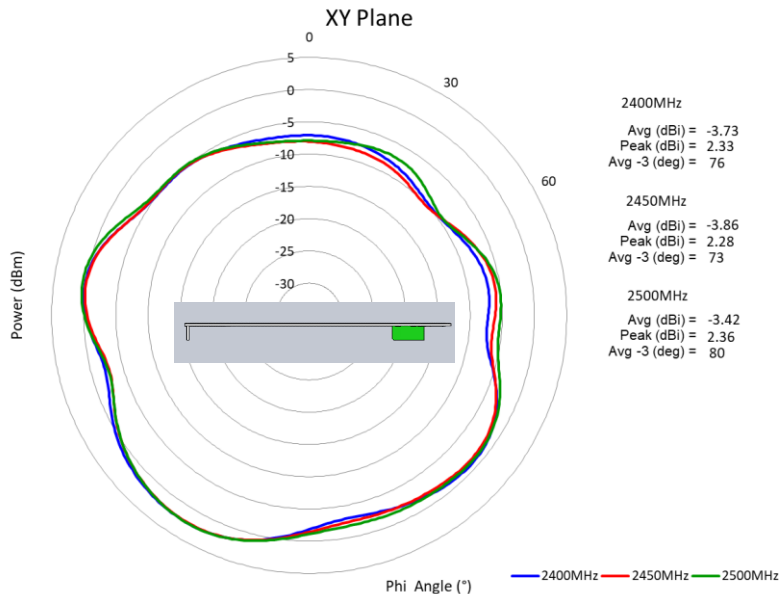
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CHARTS

Radiation Pattern of X-Y plane at position 1



Radiation Pattern of X-Y plane at position 2



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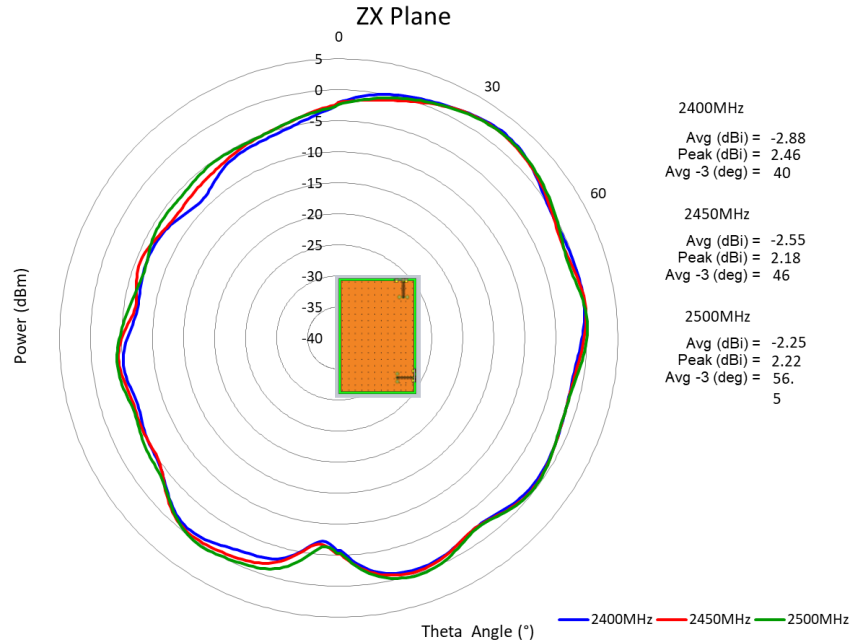
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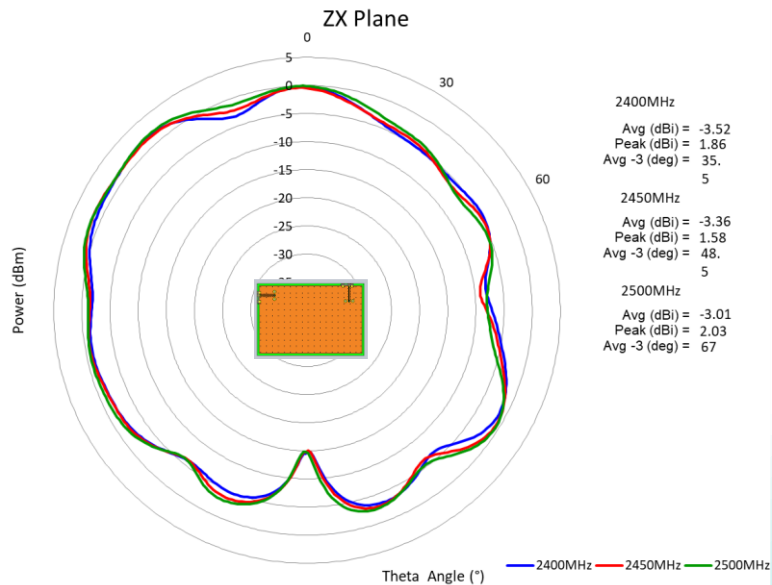
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CHARTS

Radiation Pattern of Z-X plane at position 1



Radiation Pattern of Z-X plane at position 2



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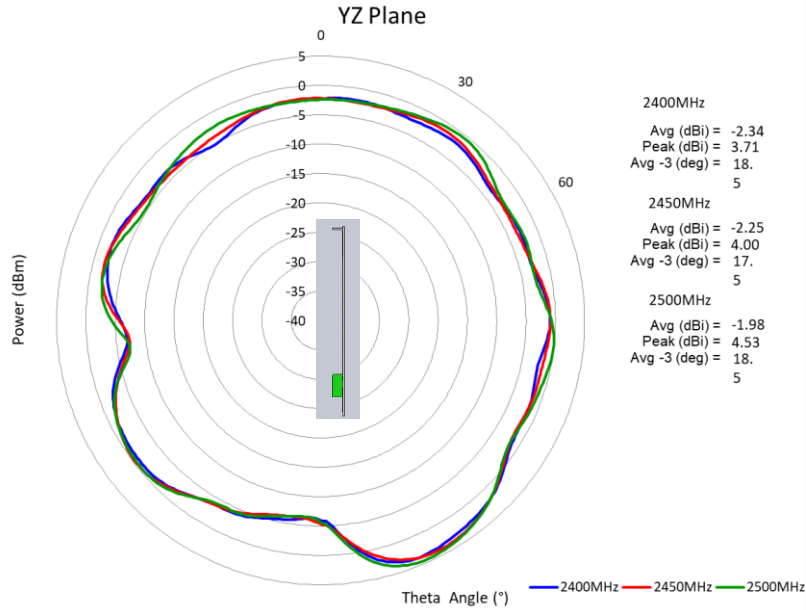
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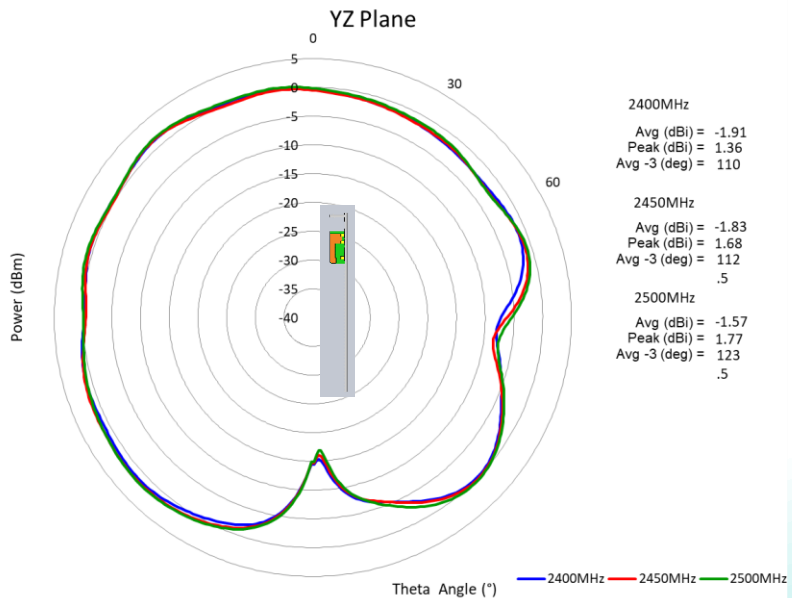
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CHARTS

Radiation Pattern of Y-Z plane at position 1



Radiation Pattern of Y-Z plane at position 2



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