PulseLARSEN Antennas

TECHNICAL DATA SHEET

Series: Embedded PCB Ant

Description: 2.4/5GHz Vertical mount PCB Antenna

PART NUMBER: W3712

Features:

- 2400-2500/4900-5950MHz
- Efficiency >70%
- Gain > 3dBi
- Size 19.8x18x1.6mm
- Radiation pattern Omni
- RoHS Compliant

Applications:

- ISM band 2.4GHz radios
- ISM band 5GHz radios
- Bluetooth, BLE
- WiFi Dualband
- 2.4 and 5GHz MiMo applications
- Gateways, Data terminals, Hot Spots
- IoT, Security, Telematics

All dimensions are in mm / inches

Issue: 1812

RoHS COMPLIANT

For more information:

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Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
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Tel: 86 512 6807 9998

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ELECTRICAL SPECIFICATIONS

Frequency	2400-2500/4900-5950 MHz
Nominal Impedance	50 Ω
*VSWR	2:1
Radiation Pattern	Omni
*Gain	>3dBi
*Efficiency	>60%
Polarization	Vertical
Power Withstanding	2 W

MECHANICAL SPECIFICATIONS

Overall Length	19.8x18x1.6mm
Weight	1.06g
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

RoHS COMPLIANT

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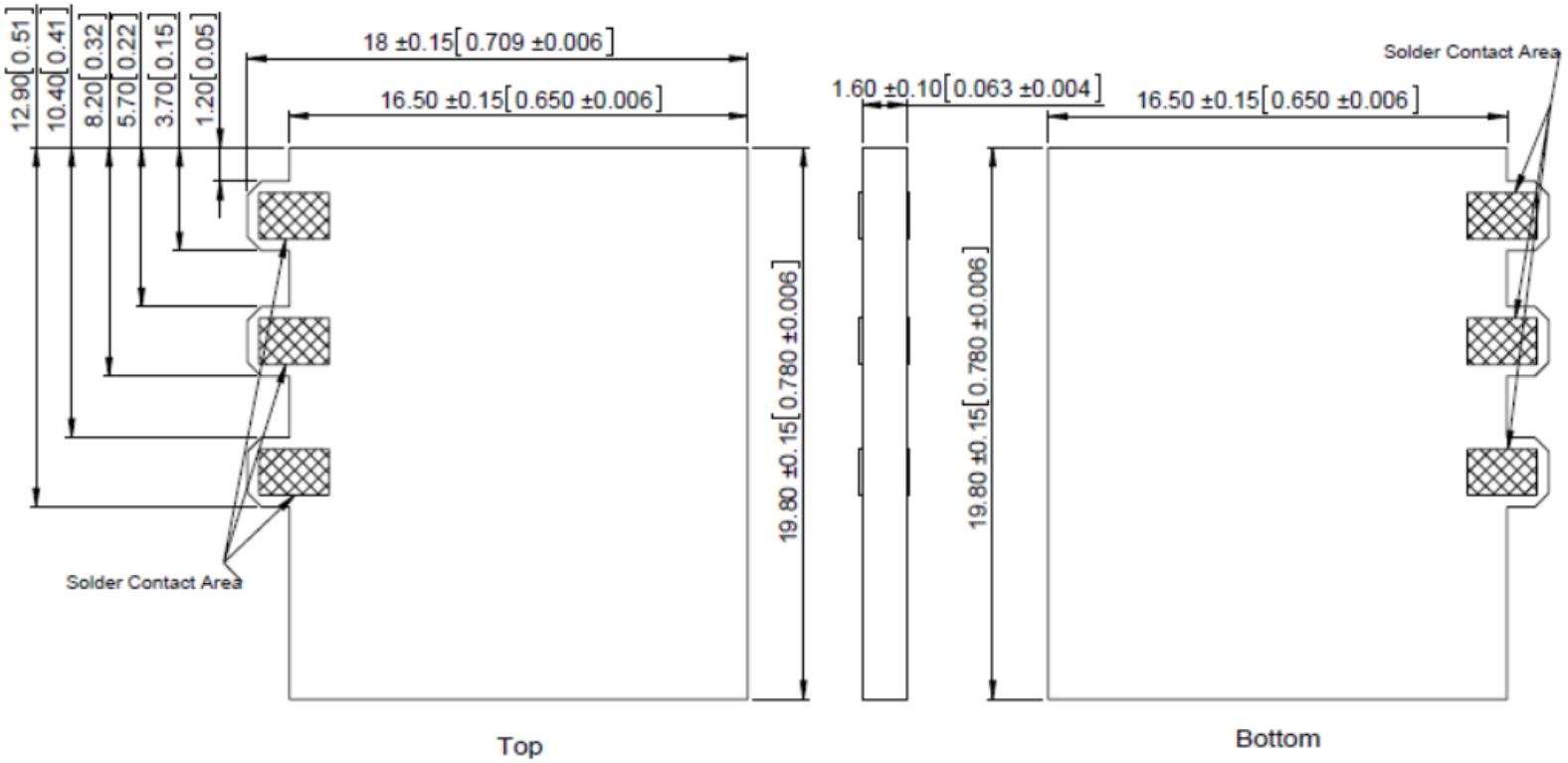
MECHANICAL DRAWING



Dimension Unit: mm[Inch]

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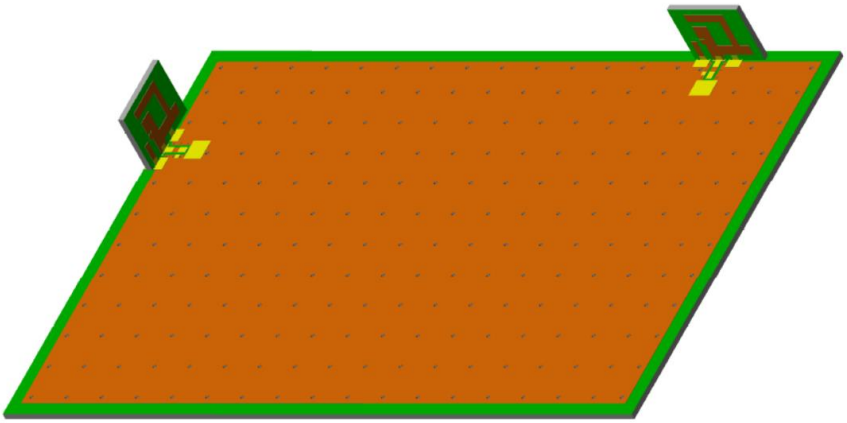
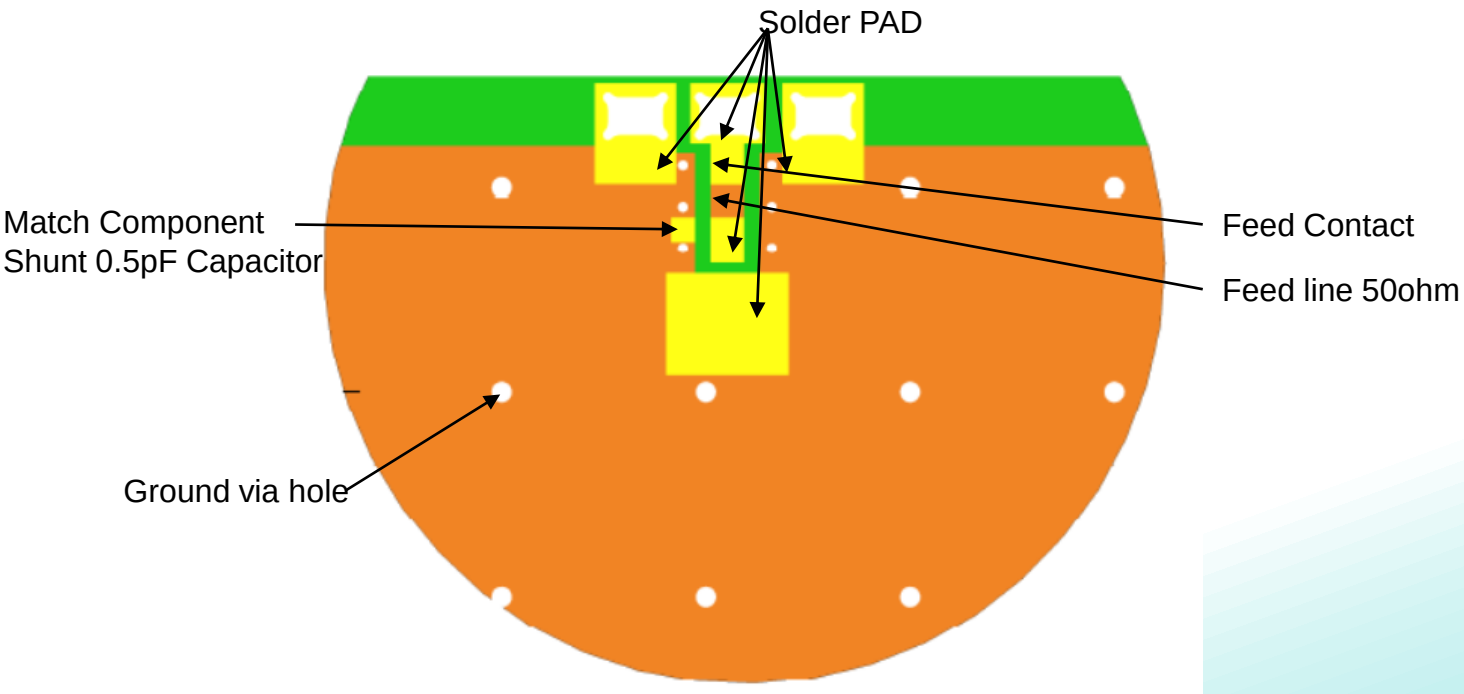
TEST SETUP

Test PWB for PCB Antenna W3712

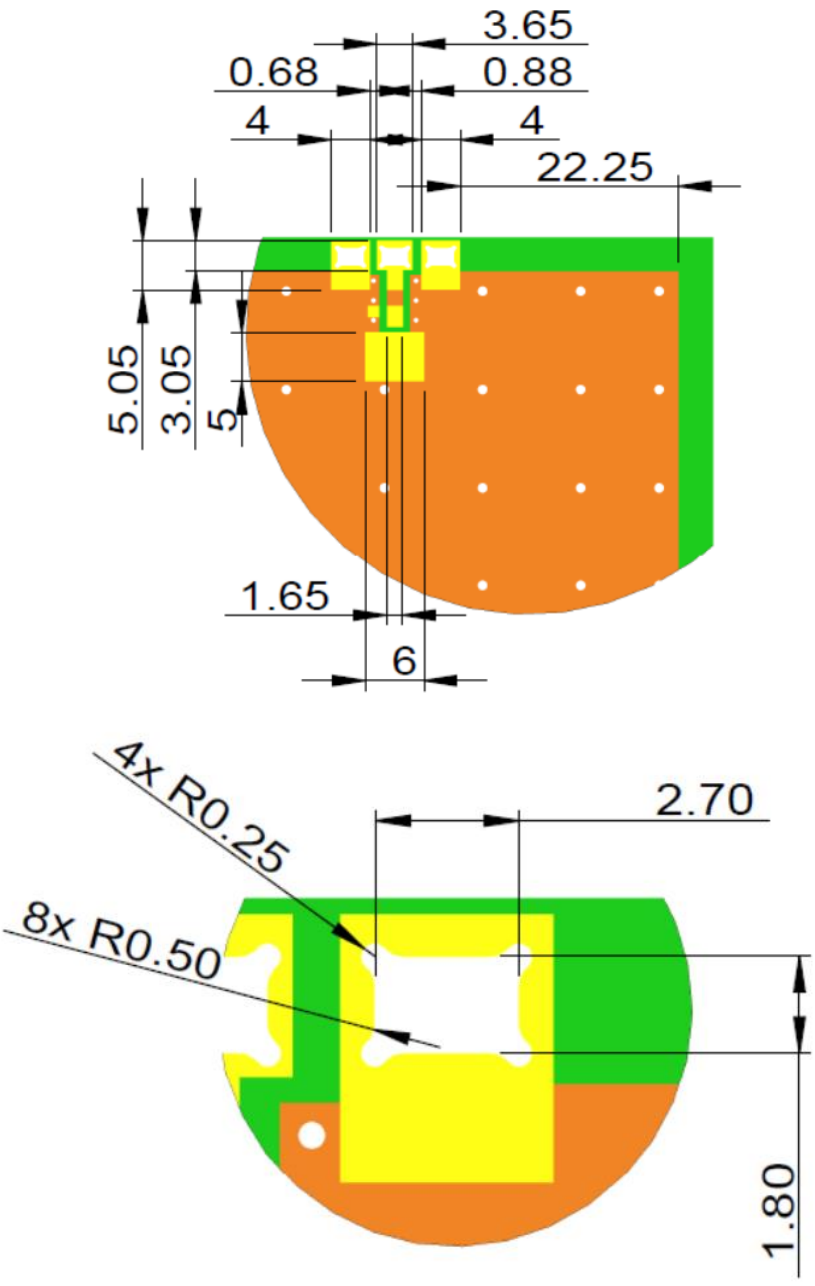




RoHS COMPLIANT

TEST SETUP

PWB PAD Dimension in top copper



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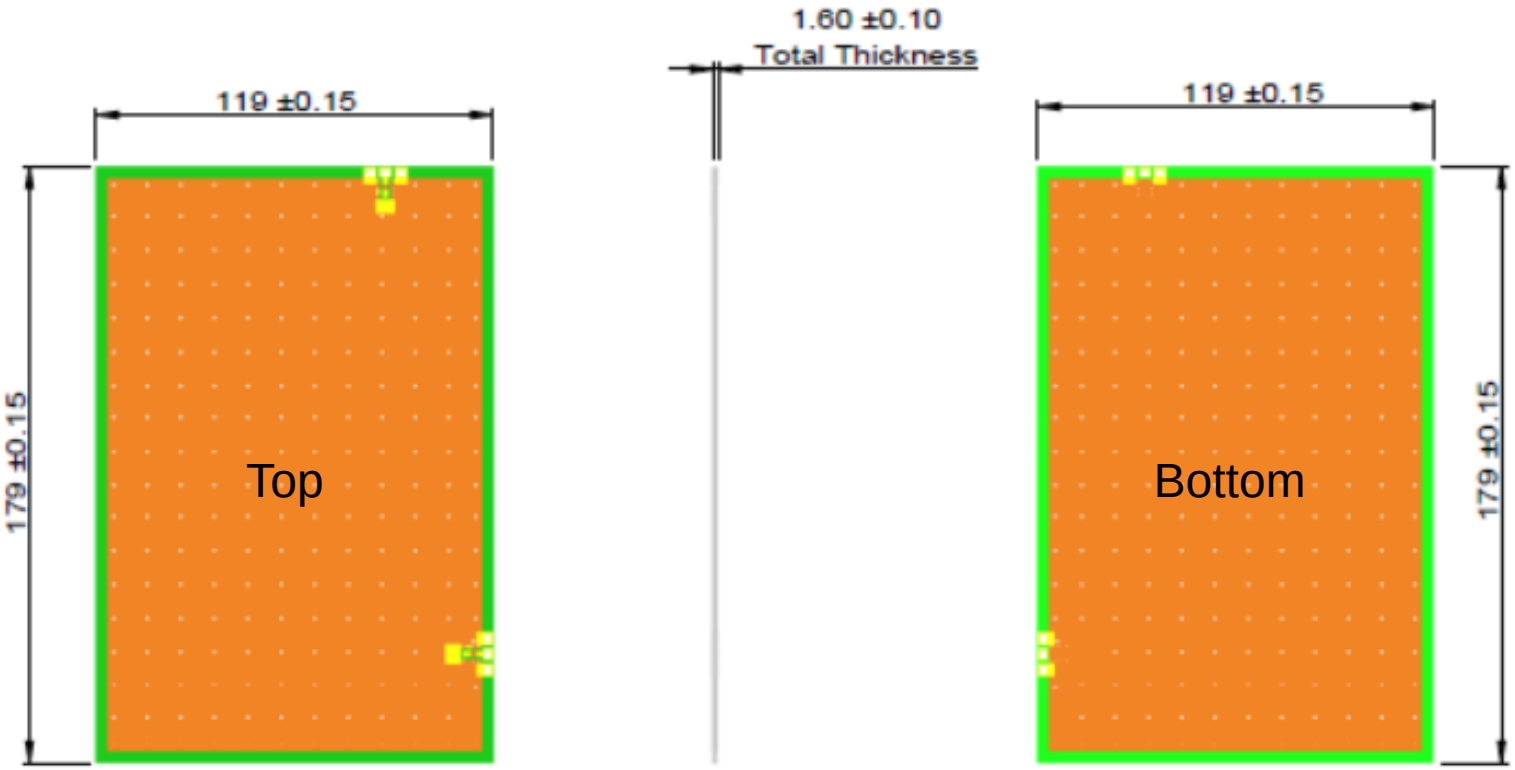
TEST SETUP

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



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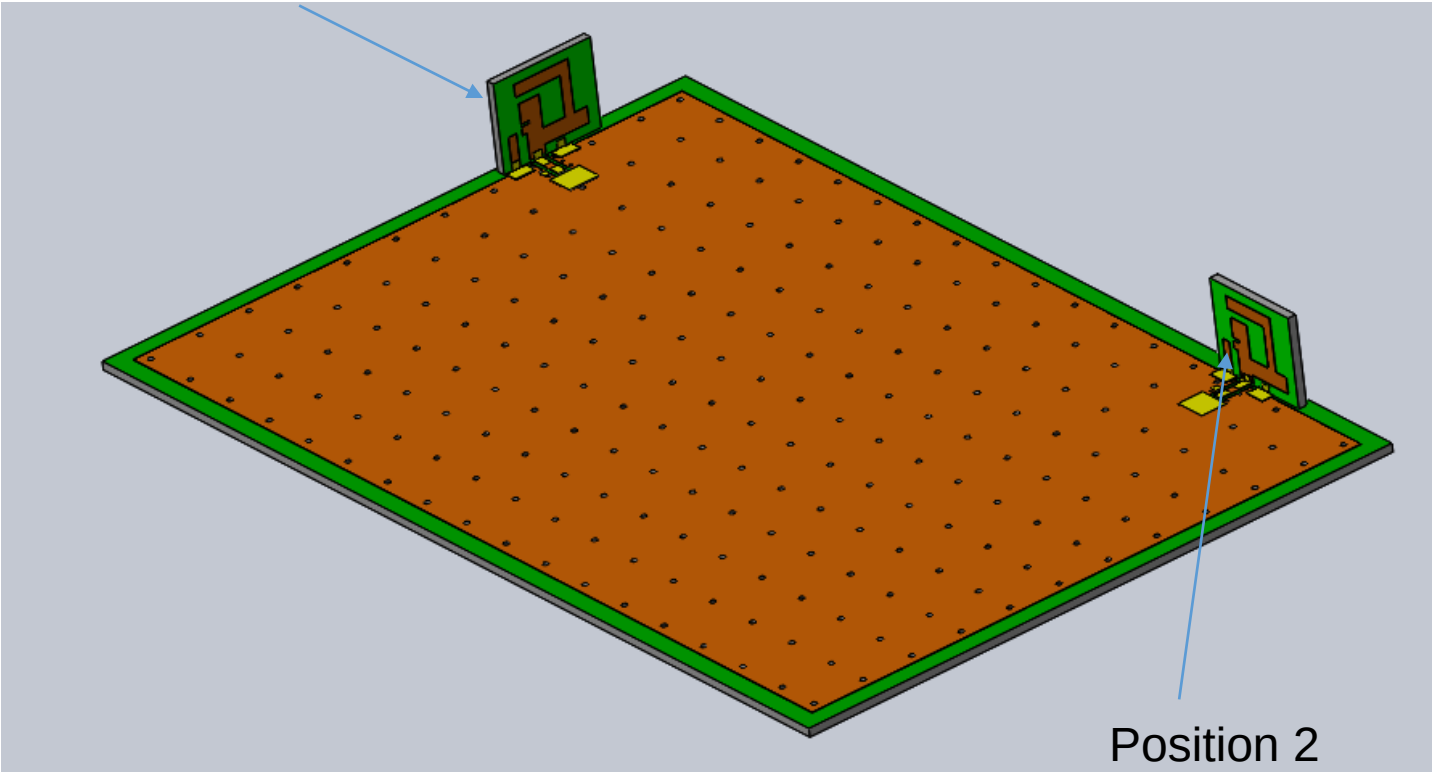
TEST SETUP

Position 1



Test on Pulse test board in free space.

RoHS COMPLIANT

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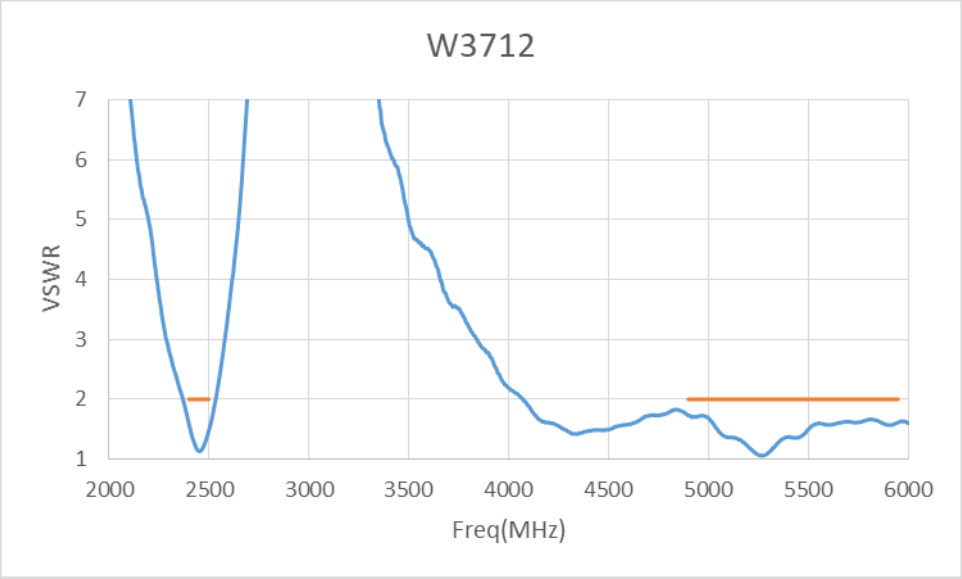
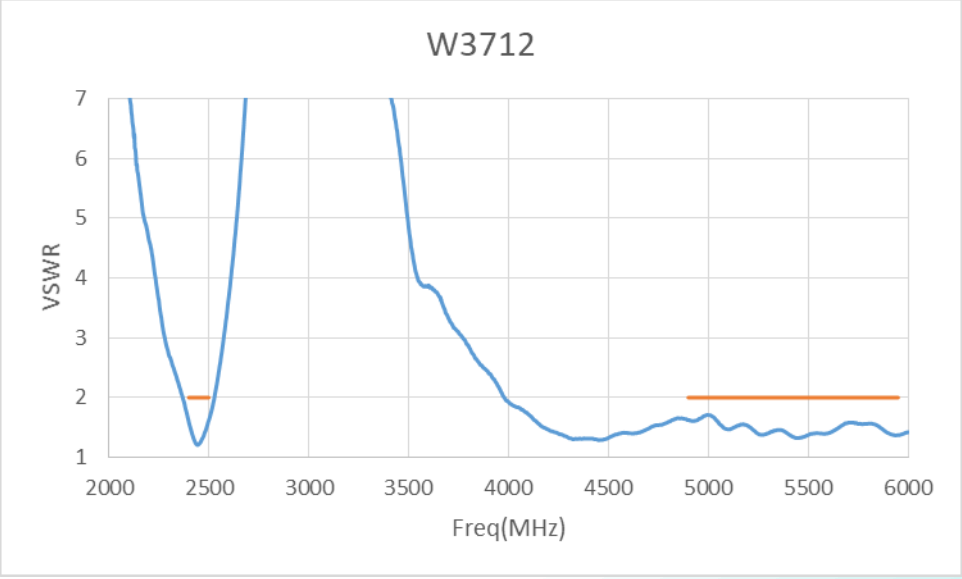
CHARTS

VSWR at position 1



VSWR at position 2



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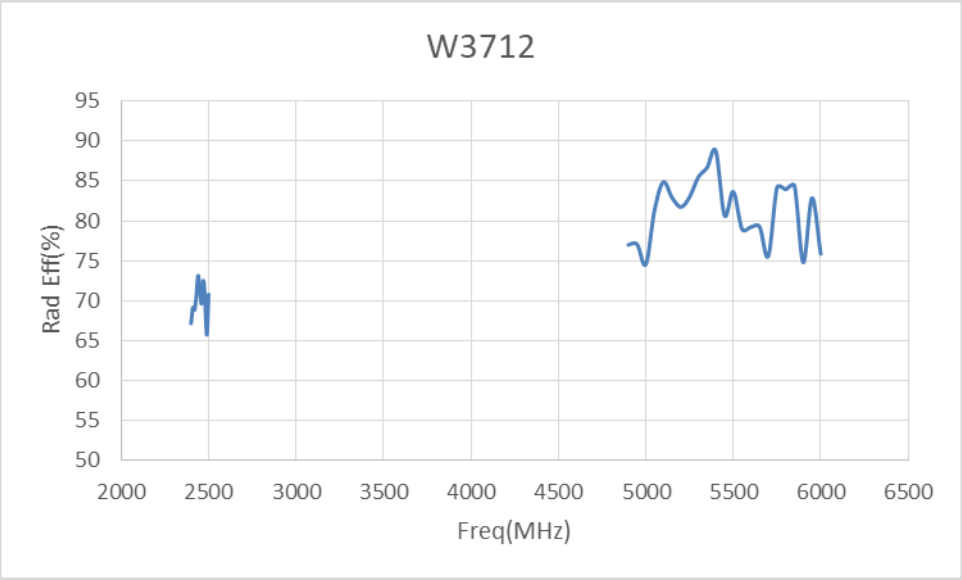
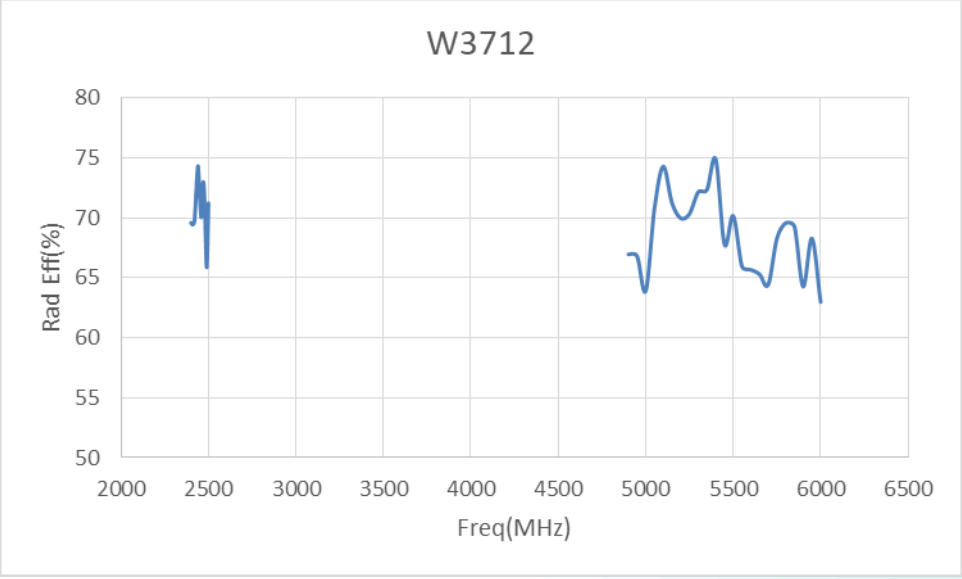
CHARTS

Radiation Efficiency at position 1



Radiation Efficiency at position 2



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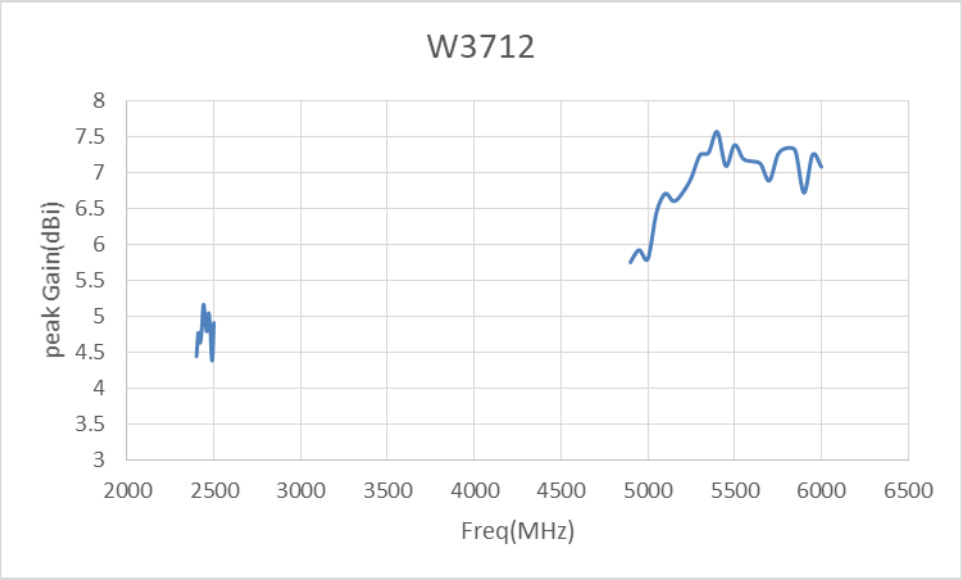
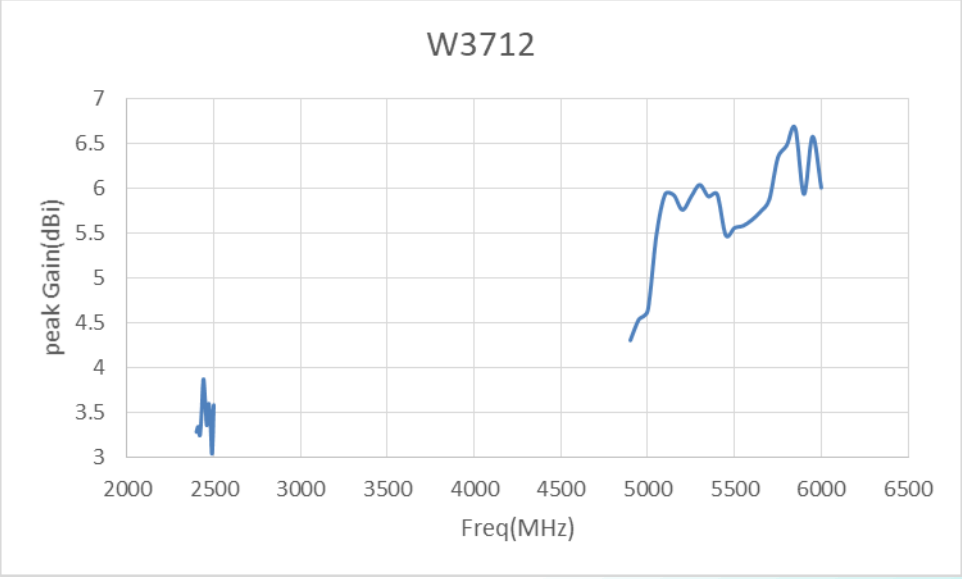
CHARTS

Peak Gain at position 1



Peak Gain at position 2



RoHS COMPLIANT

Series: Embedded PCB Ant

Description: 2.4/5GHz Vertical mount PCB Antenna

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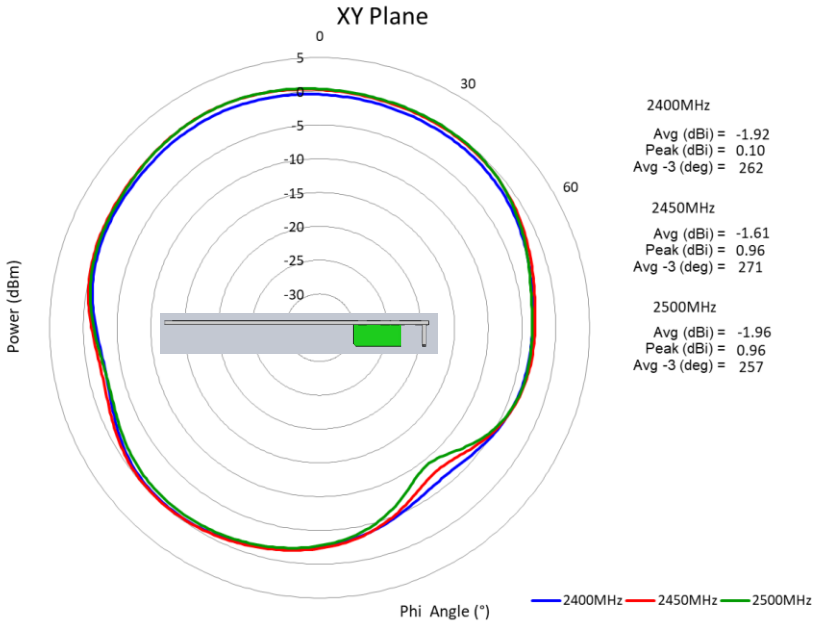
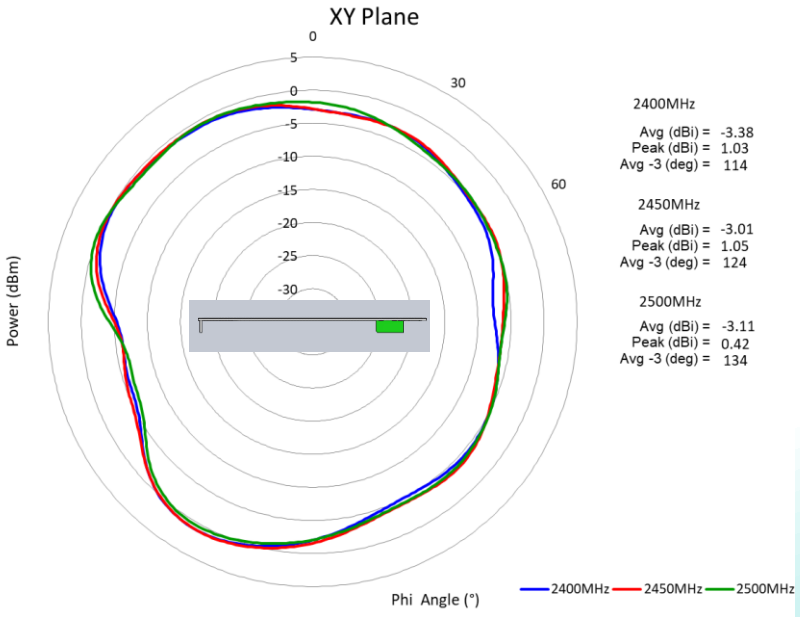
CHARTS

2.4GHz band Radiation Pattern of X-Y plane at position 1



2.4GHz Band Radiation Pattern of X-Y plane at position 2



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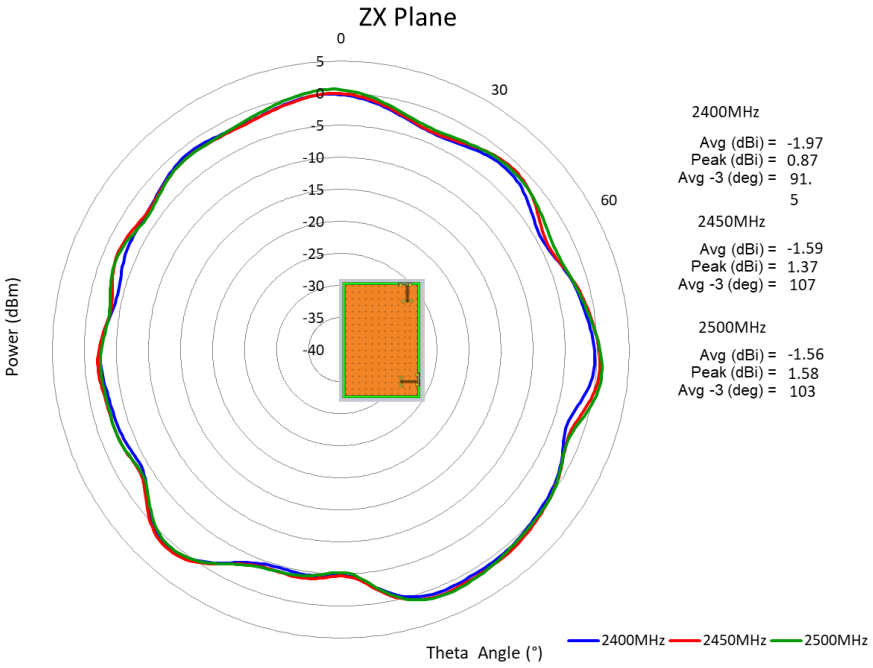
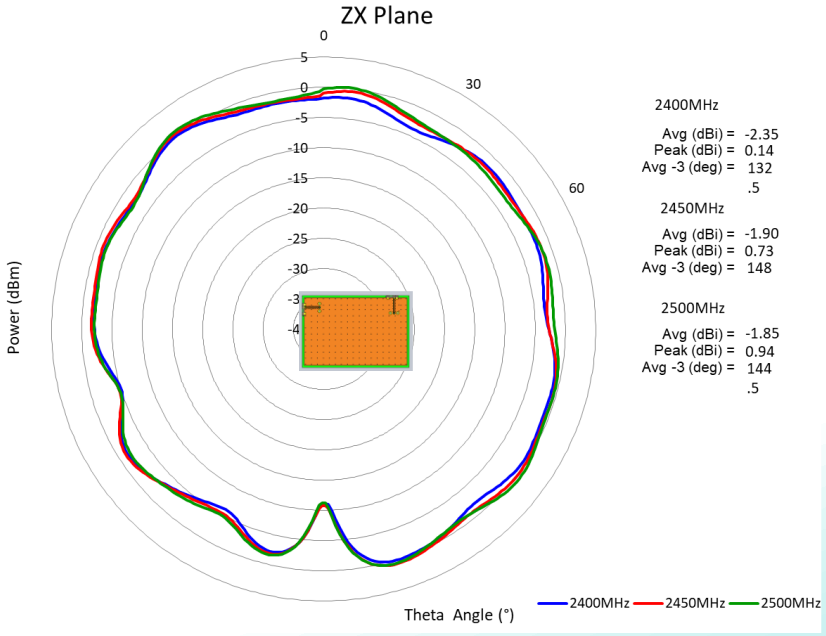
CHARTS

2.4GHz band Radiation Pattern of Z-X plane at position 1



2.4GHz band Radiation Pattern of X-Z plane at position 2



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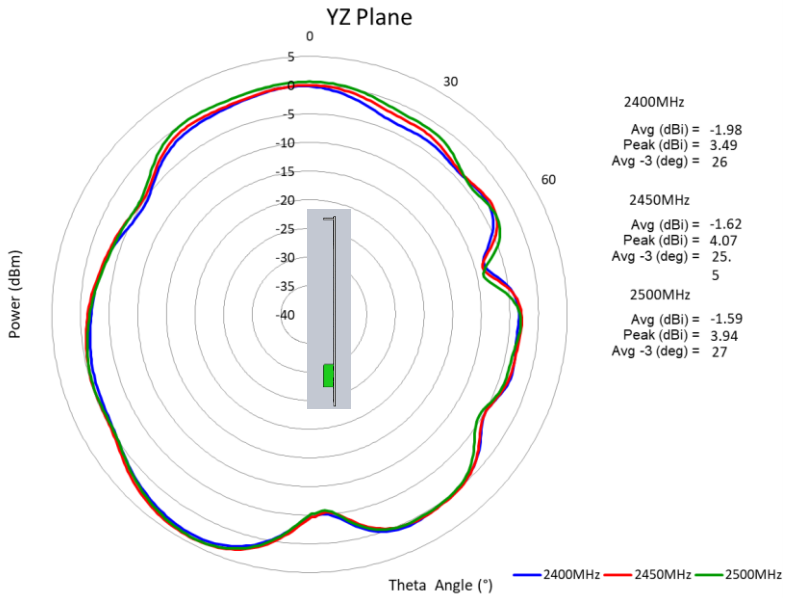
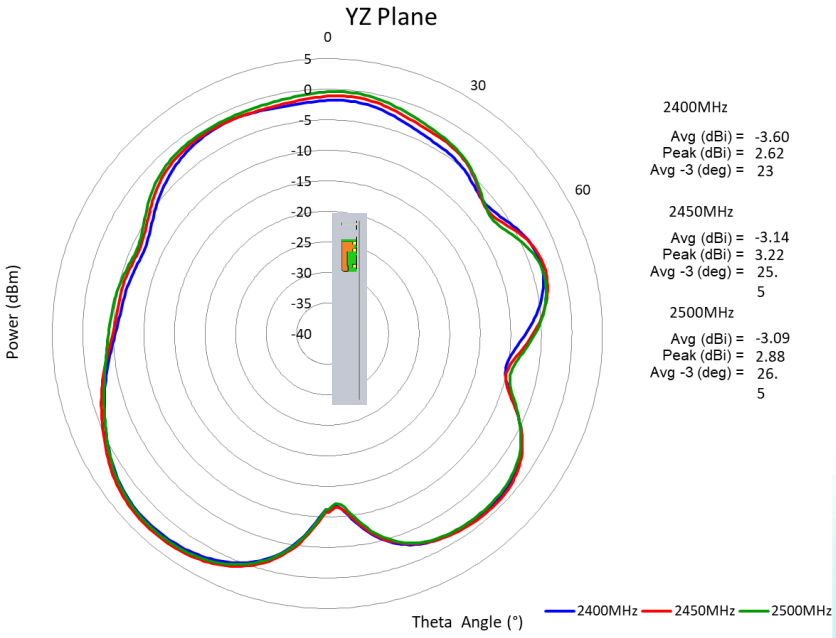
2.4GHz band Radiation Pattern of Y-Z plane at position 1



2.4GHz band Radiation Pattern of Y-Z plane at position 2



RoHS COMPLIANT

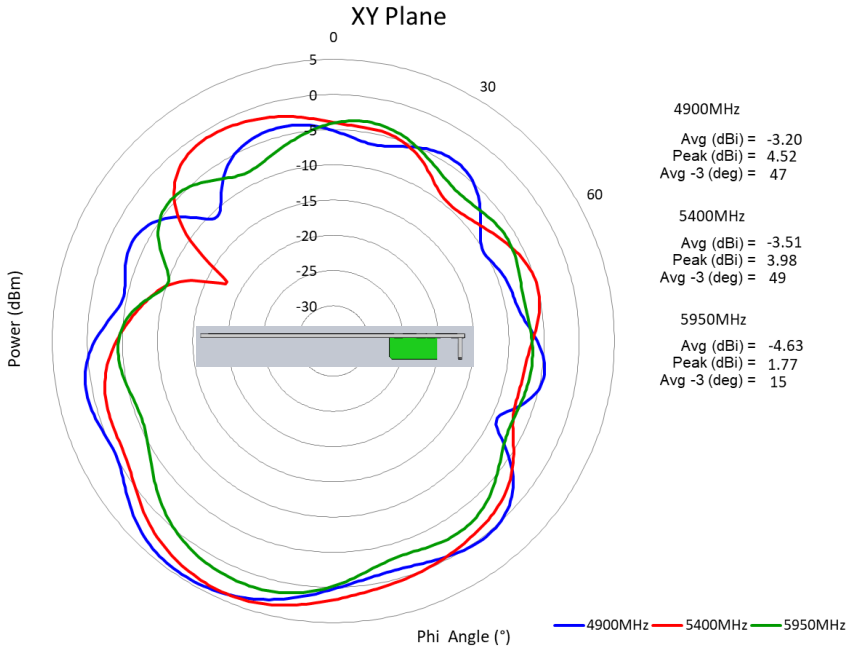
Series: Embedded PCB Ant

Description: 2.4/5GHz Vertical mount PCB Antenna

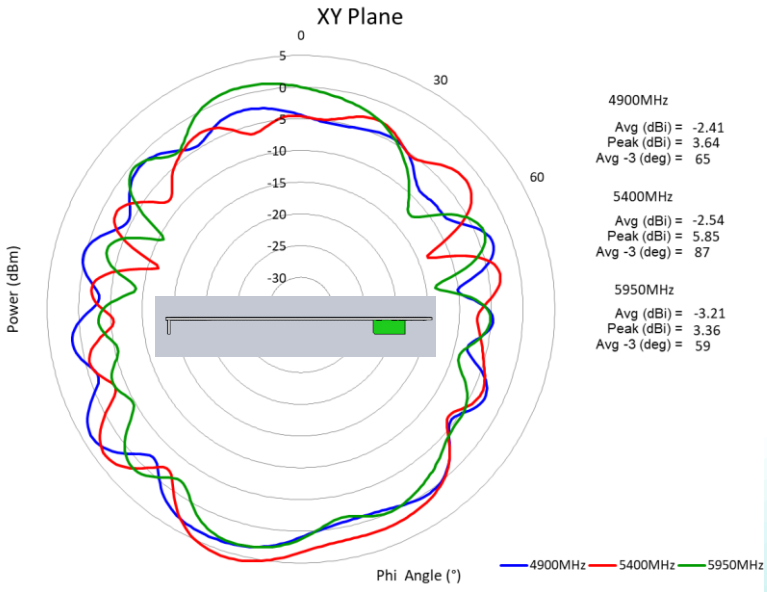
PART NUMBER: W3712

CHARTS

5GHz band Radiation Pattern of X-Y plane at position 1



5GHz Band Radiation Pattern of X-Y plane at position 2



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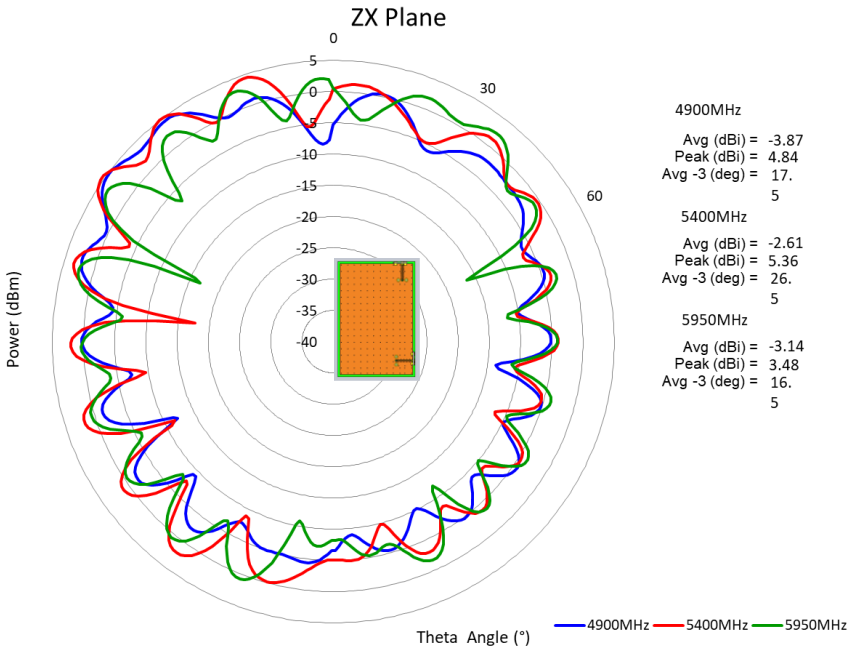
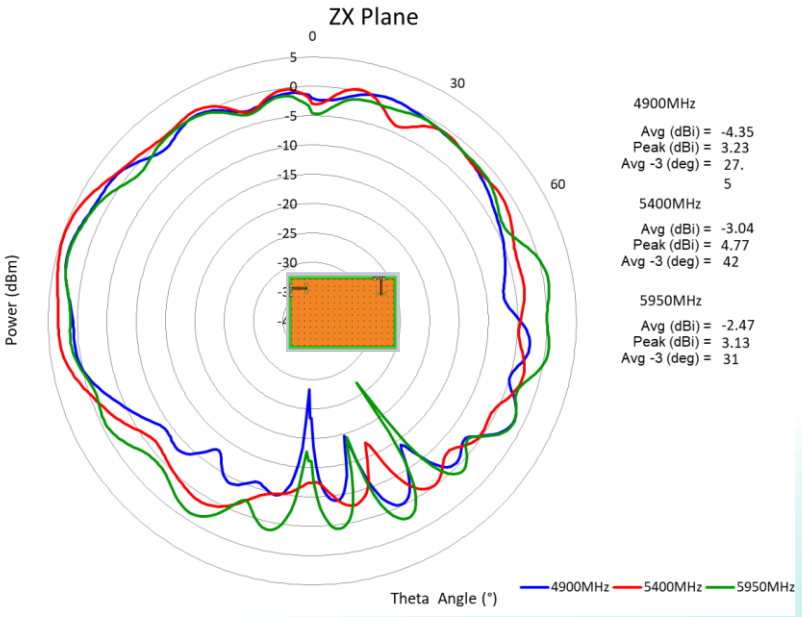
CHARTS

5GHz band Radiation Pattern of Z-X plane at position 1



5GHz band Radiation Pattern of X-Z plane at position 2



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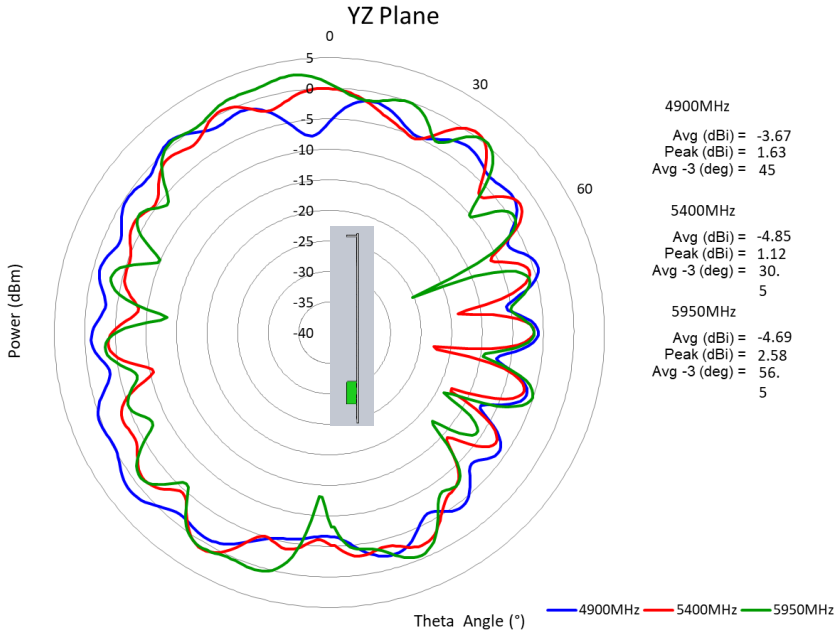
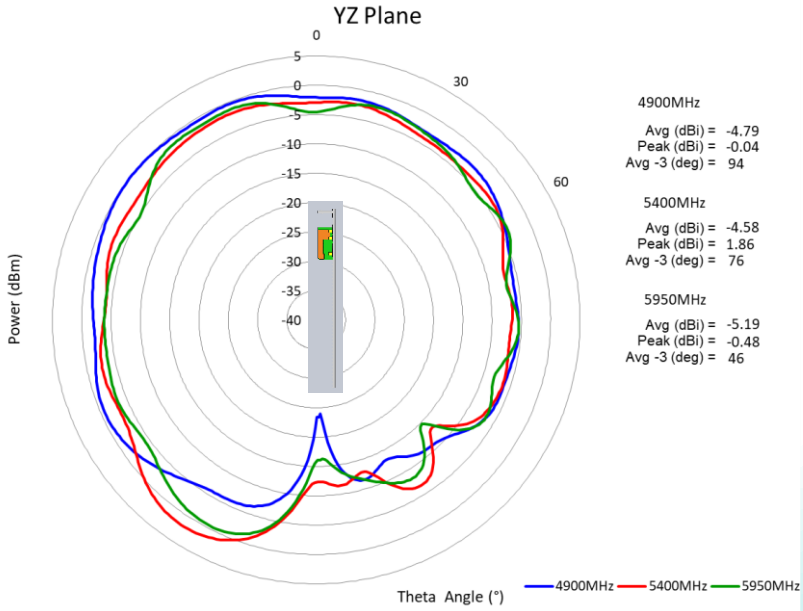
5GHz band Radiation Pattern of Y-Z plane at position 1



5GHz band Radiation Pattern of Y-Z plane at position 2



PACKAGING

90pcs/PE bag
PE bag size:140x70x0.05mm
8 pcs PE bag/Vacuum bag
Vacuum bag size:310x310x0.08mm
5pcs Vacuum bag/package box
Package box:350x350x120mm
Total 3600pcs/ Package Box

RoHS COMPLIANT