

### 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

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Tel: 86 512 6807 9998



Series: Embedded PCB Ant

Description: 2.4/5GHz Vertical mount PCB Antenna

PART NUMBER: W3712

### ELECTRICAL SPECIFICATIONS

|                    |                         |
|--------------------|-------------------------|
| Frequency          | 2400-2500/4900-5950 MHz |
| Nominal Impedance  | 50 $\Omega$             |
| *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

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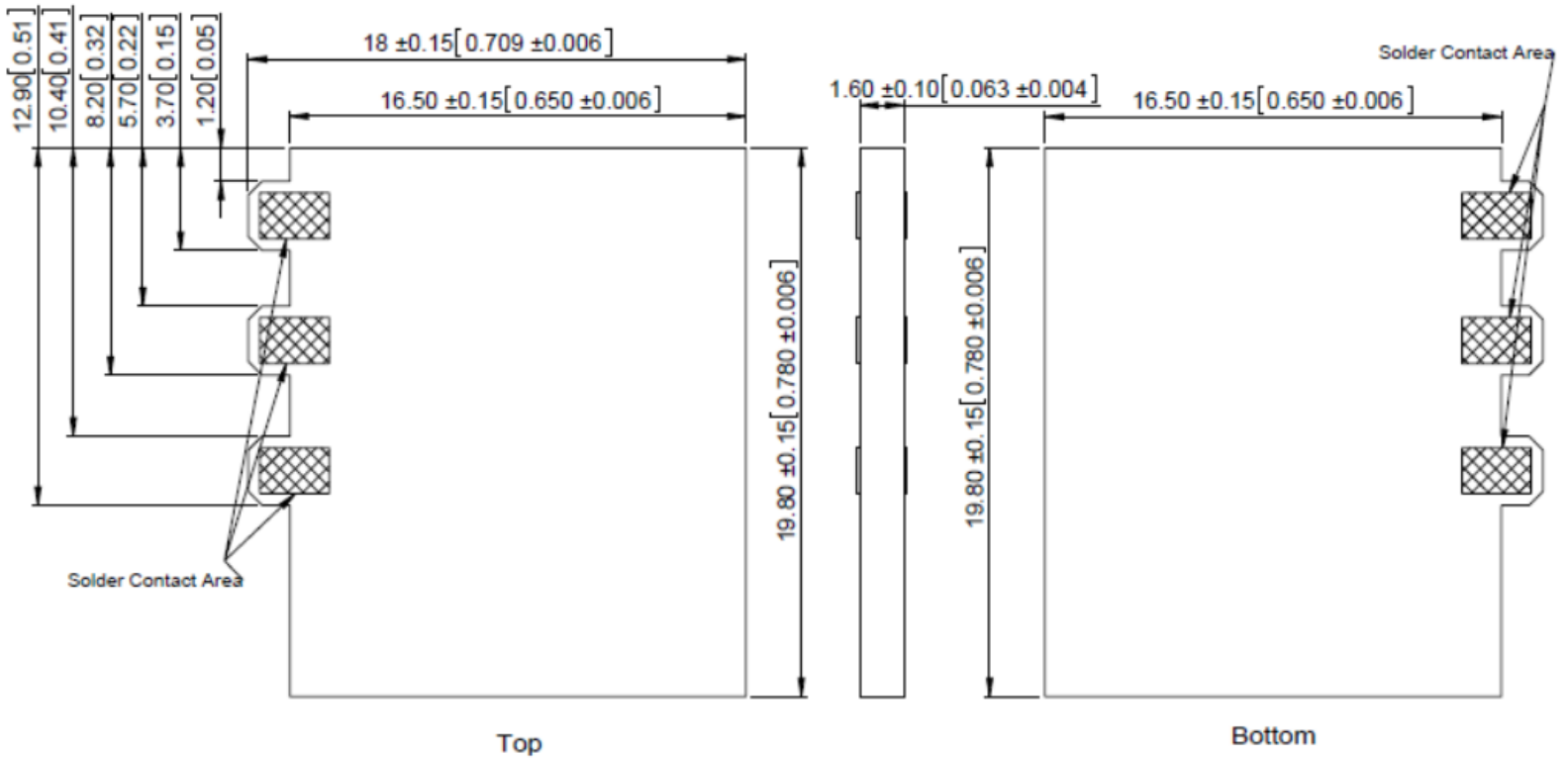
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MECHANICAL DRAWING



Dimension Unit: mm[Inch]

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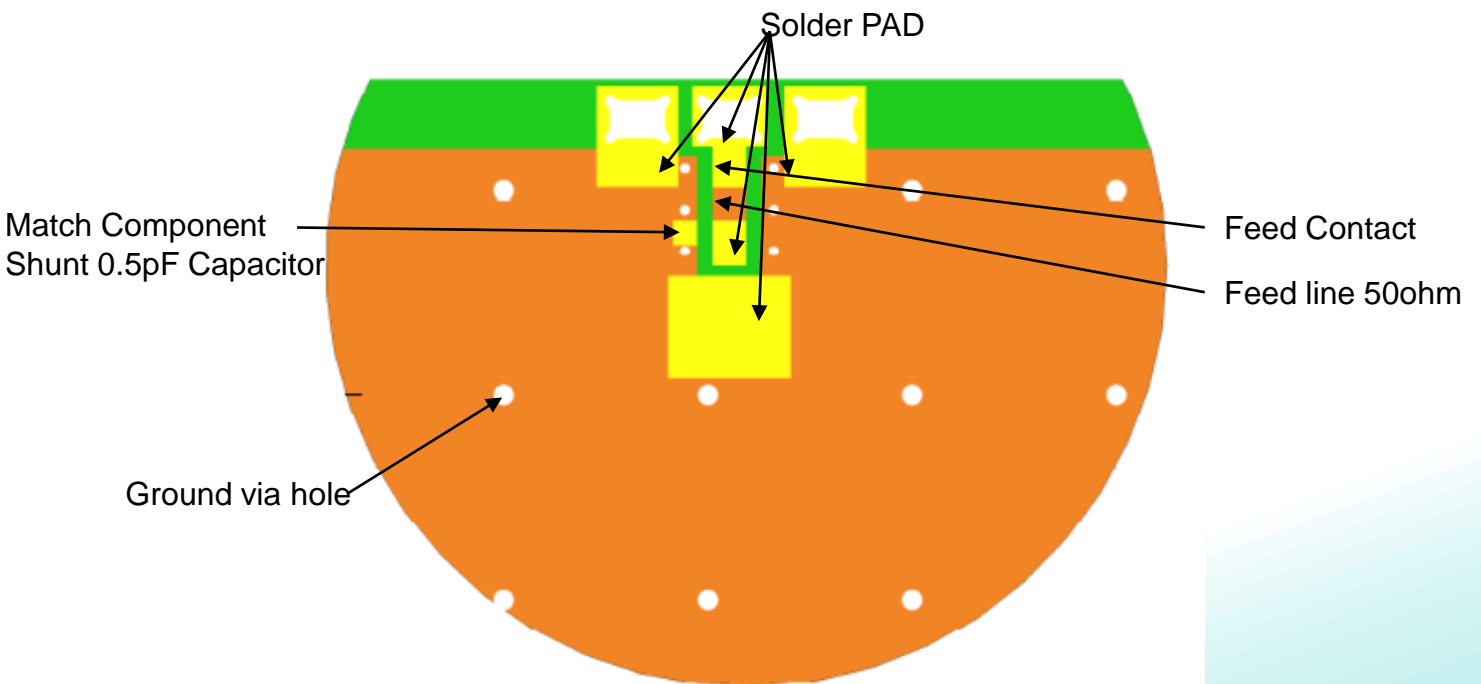
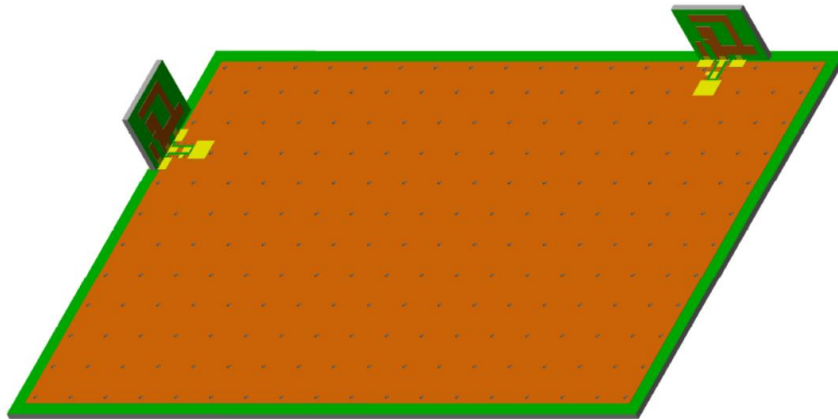
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TEST SETUP

Test PWB for PCB Antenna W3712



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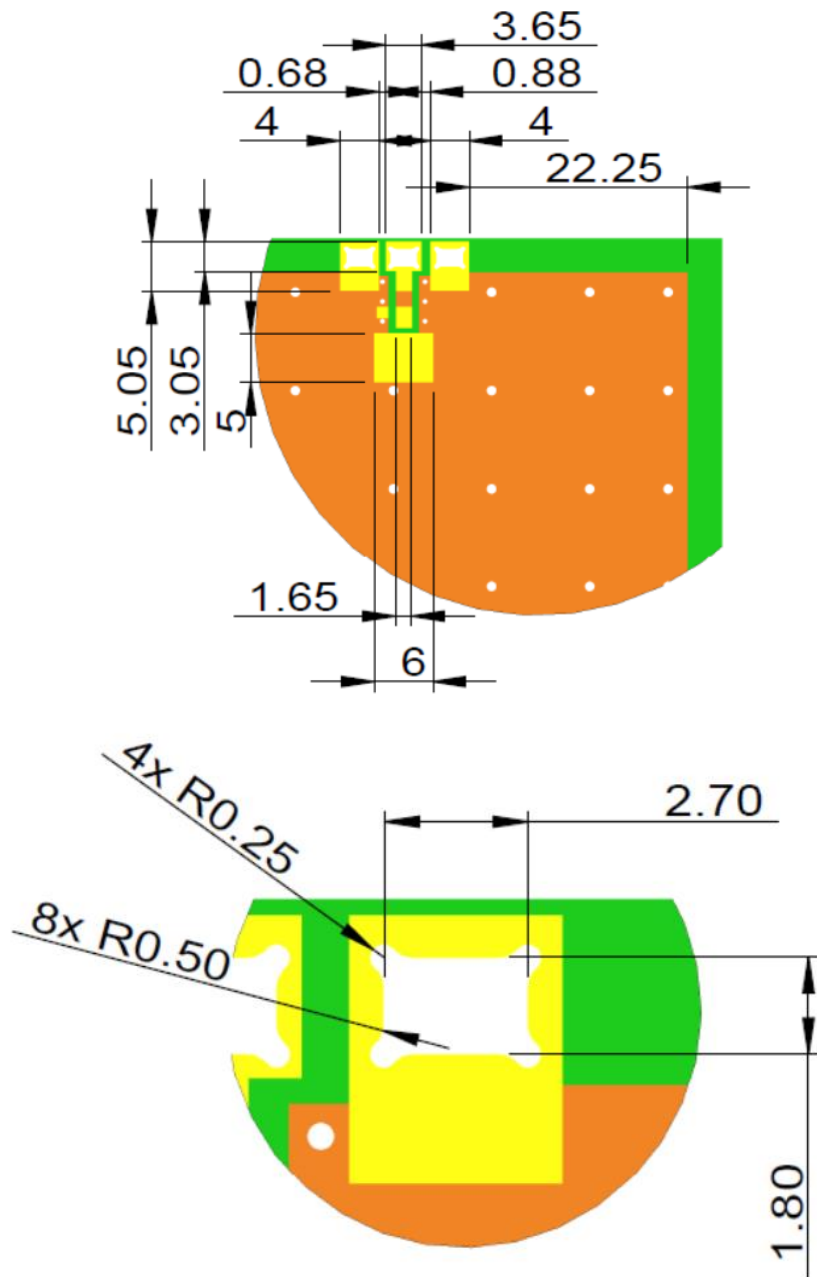
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TEST SETUP

PWB PAD Dimension in top copper



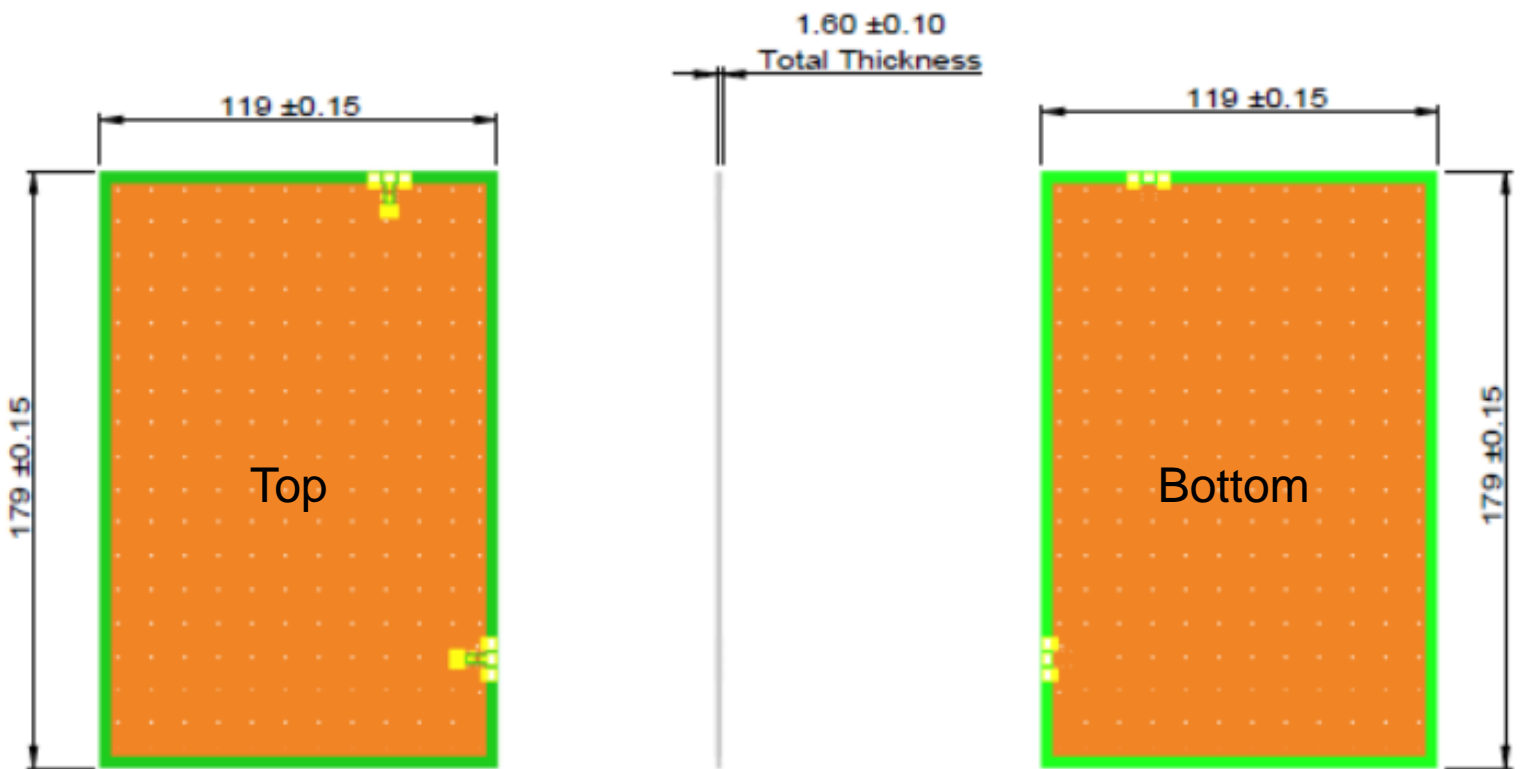
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Description: 2.4/5GHz Vertical mount PCB Antenna

PART NUMBER: W3712

TEST SETUP

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



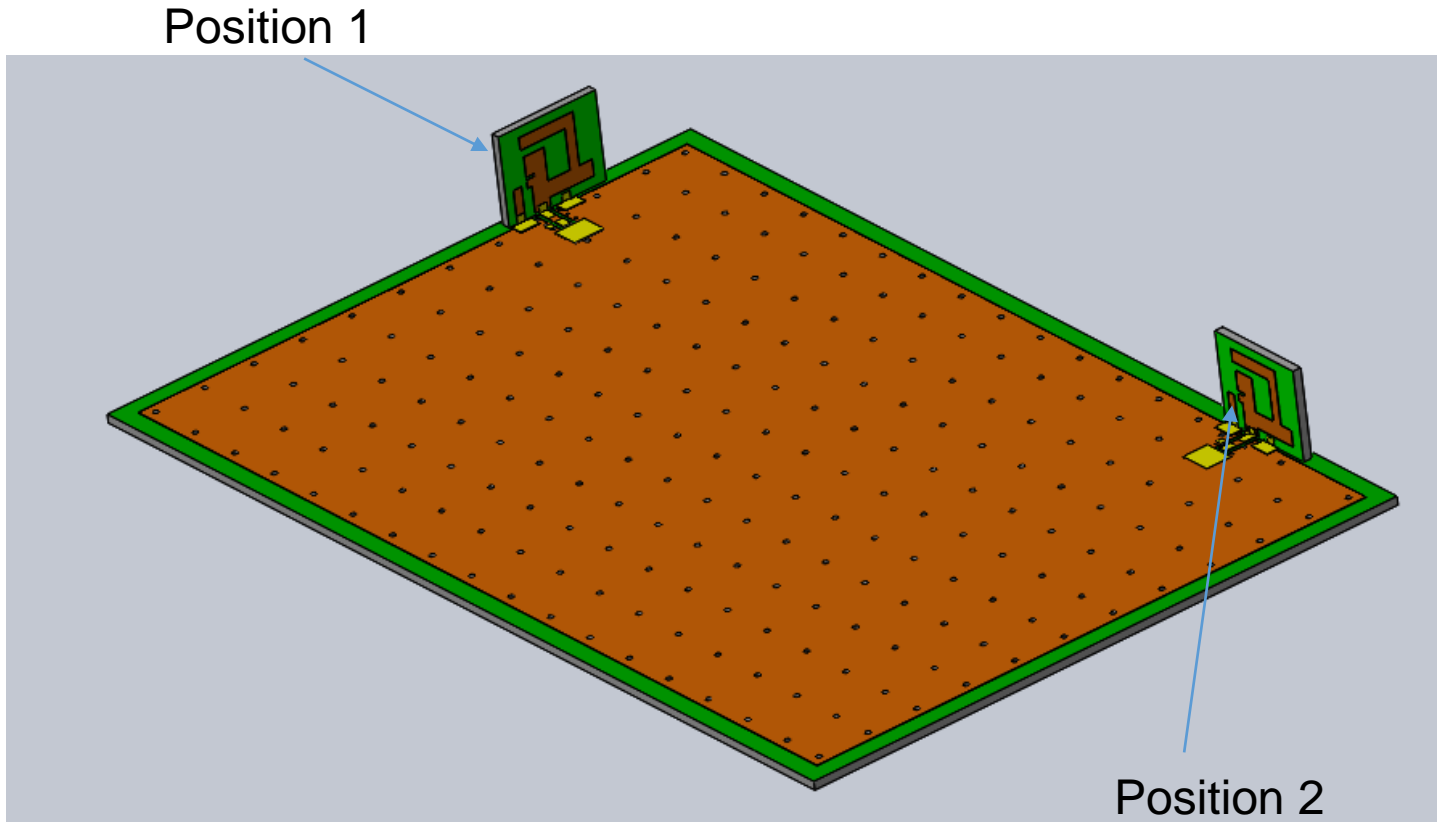
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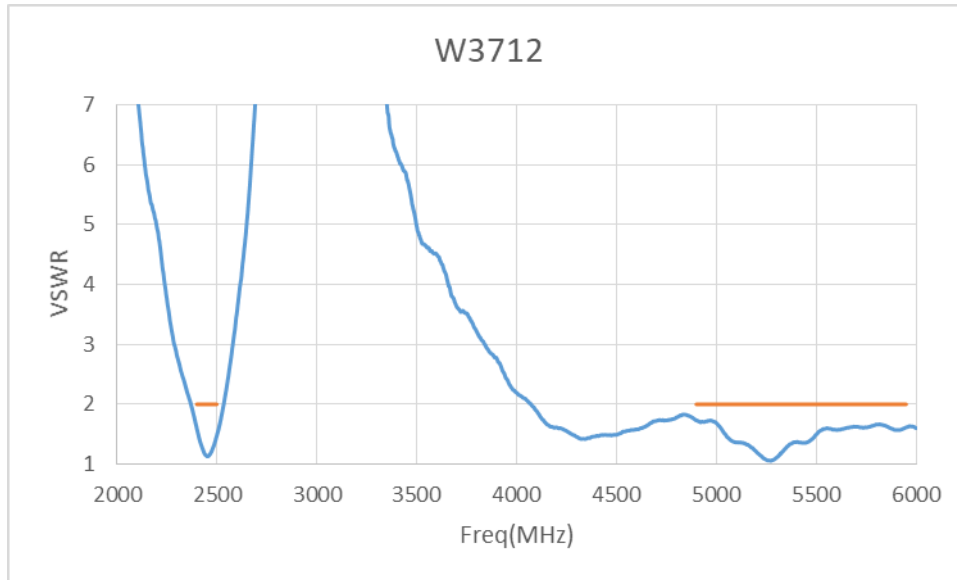
TEST SETUP



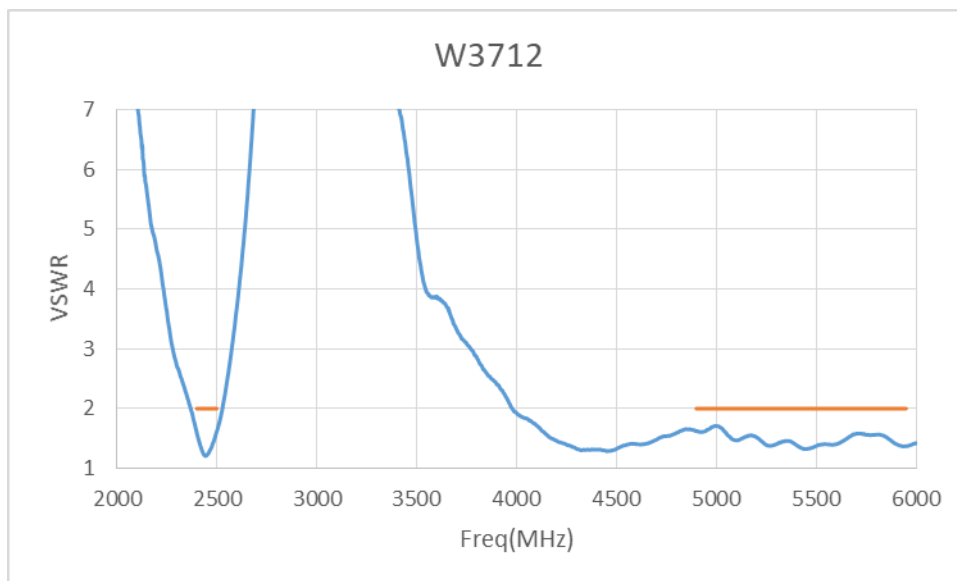
Test on Pulse test board in free space.

CHARTS

VSWR at position 1



VSWR at position 2



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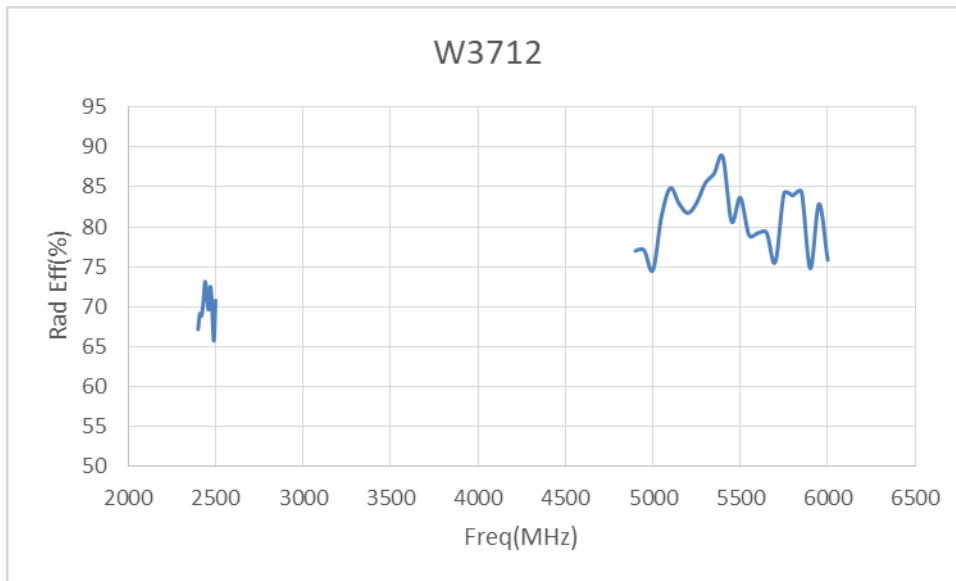
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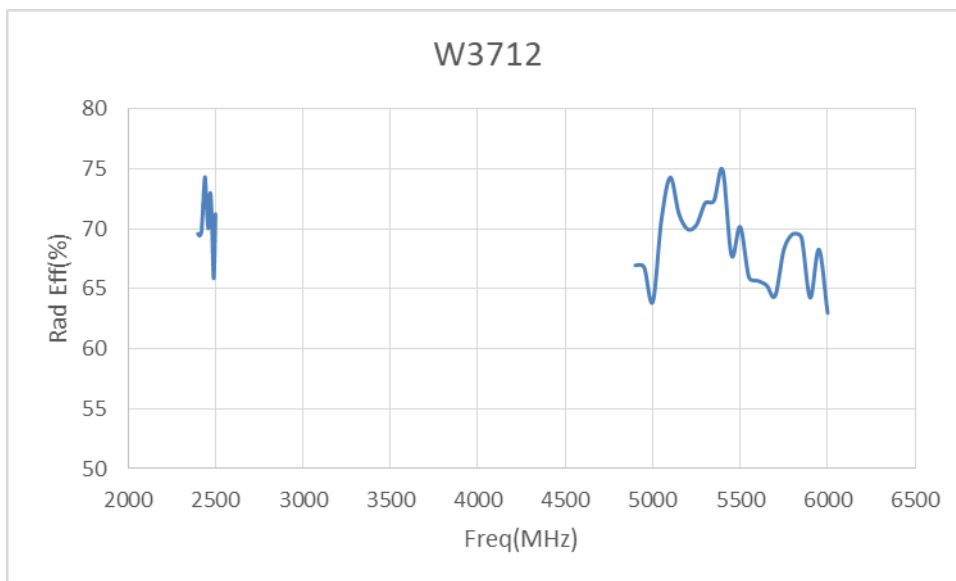


CHARTS

Radiation Efficiency at position 1

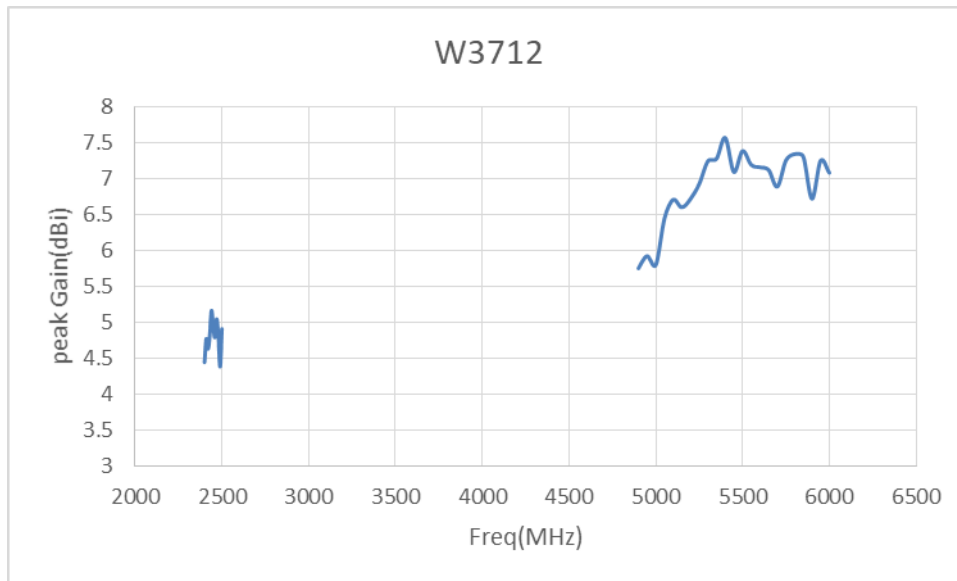


Radiation Efficiency at position 2

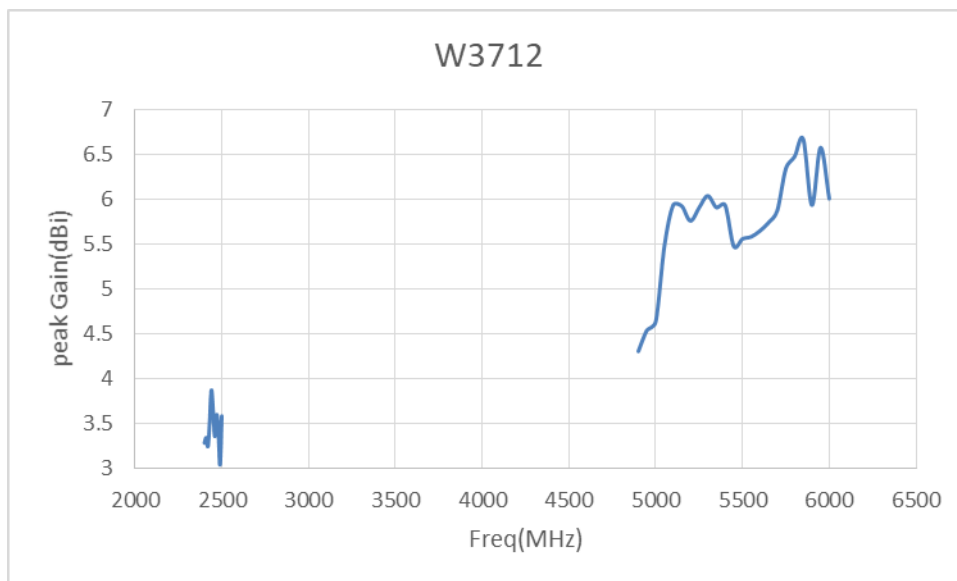


CHARTS

Peak Gain at position 1

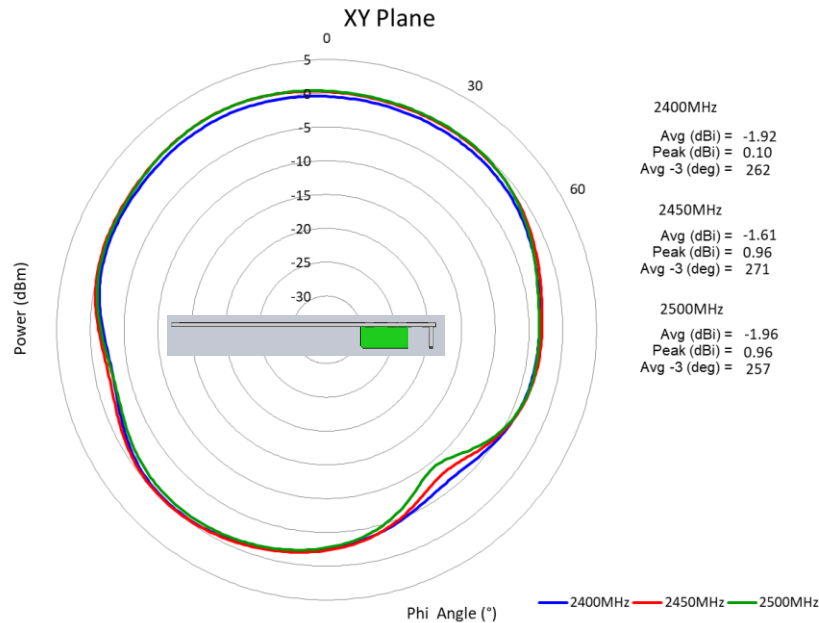


Peak Gain at position 2

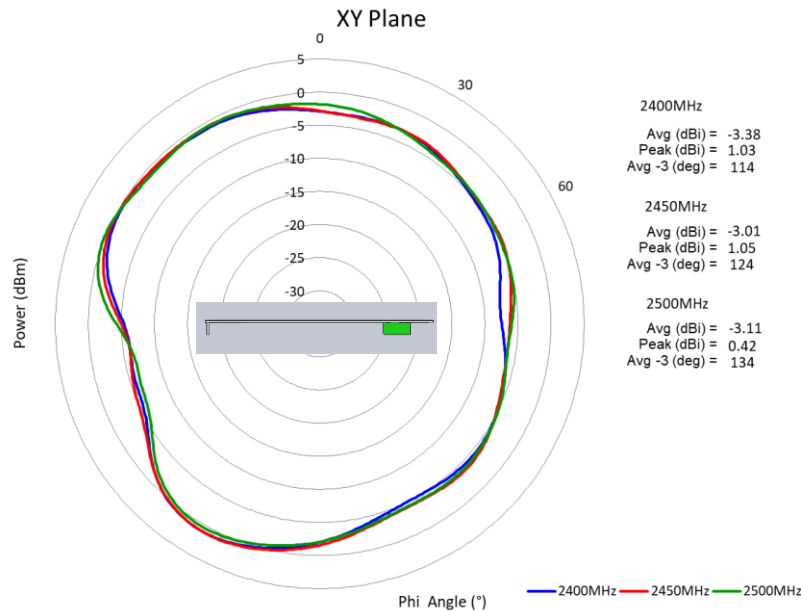


CHARTS

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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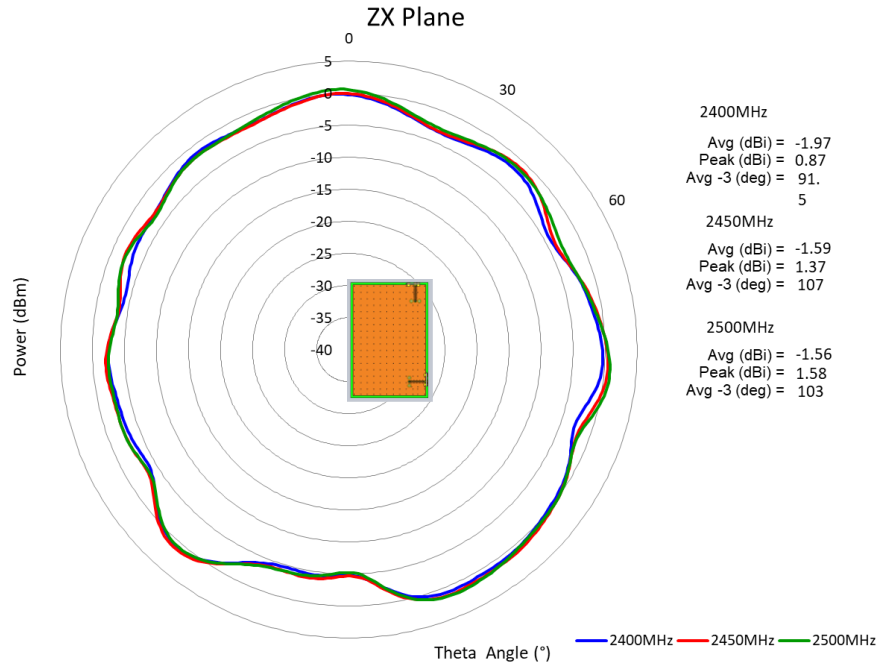
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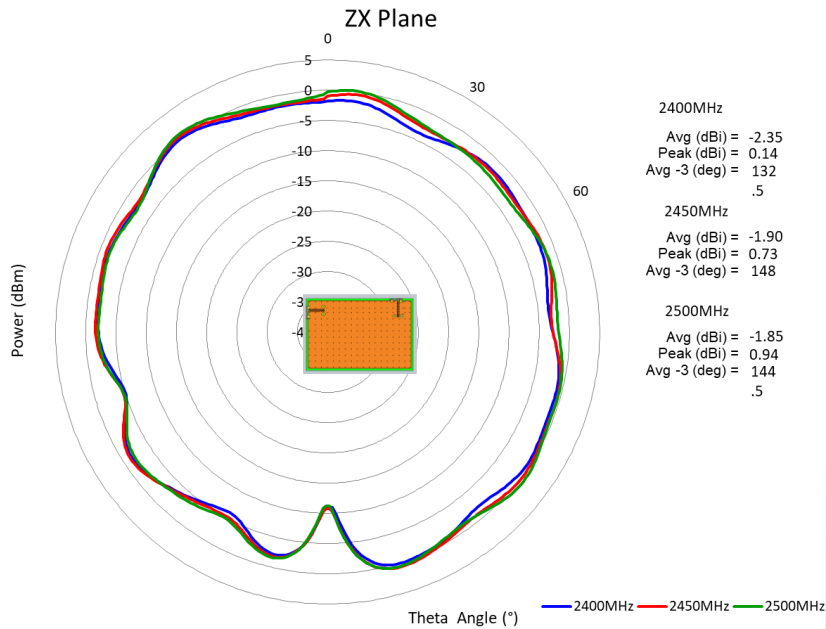
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CHARTS

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



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



Issue: 1812

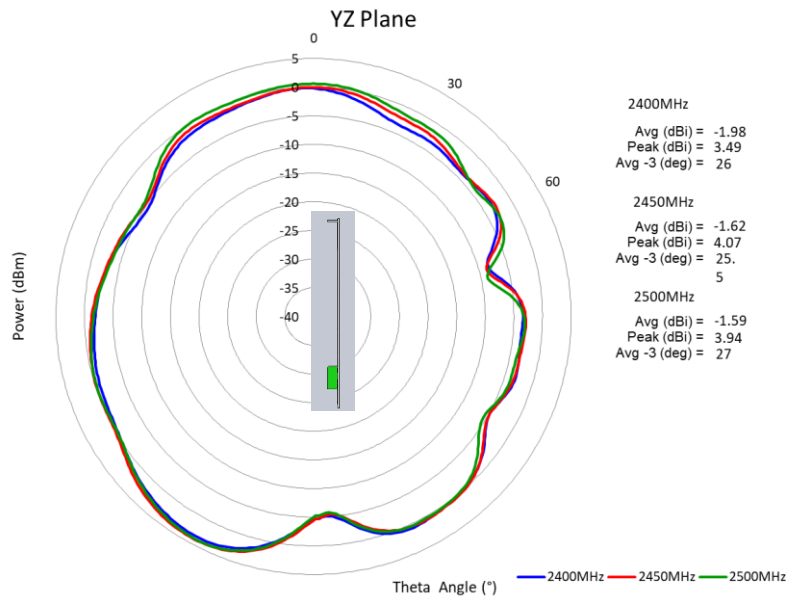
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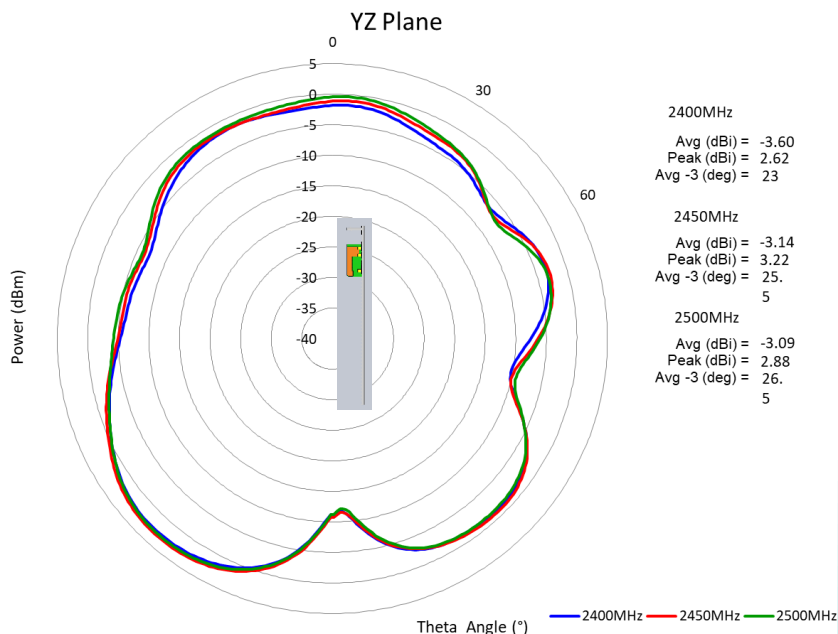
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CHARTS

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



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



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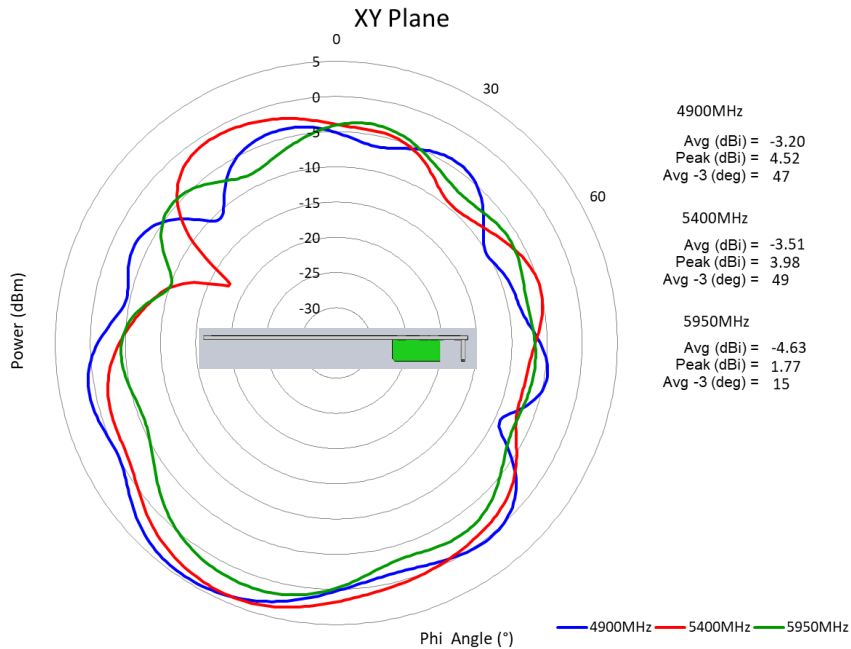
Description: 2.4/5GHz Vertical mount PCB Antenna

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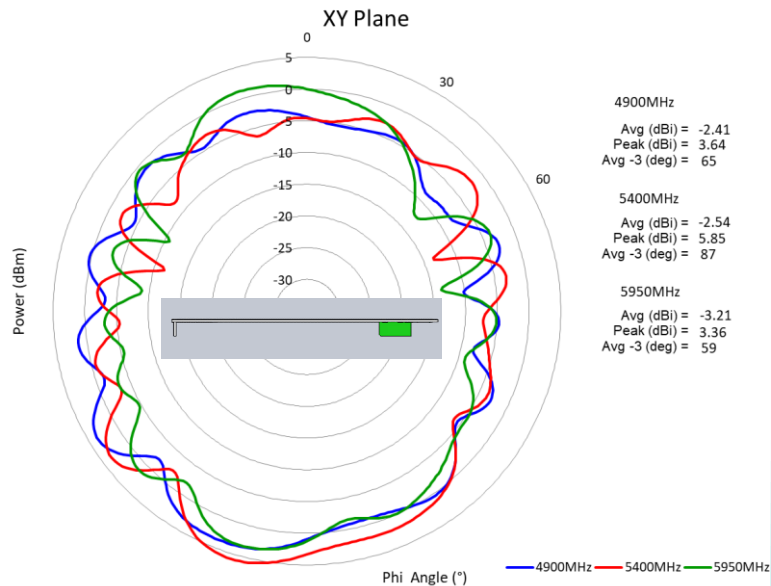
PART NUMBER: W3712

CHARTS

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



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



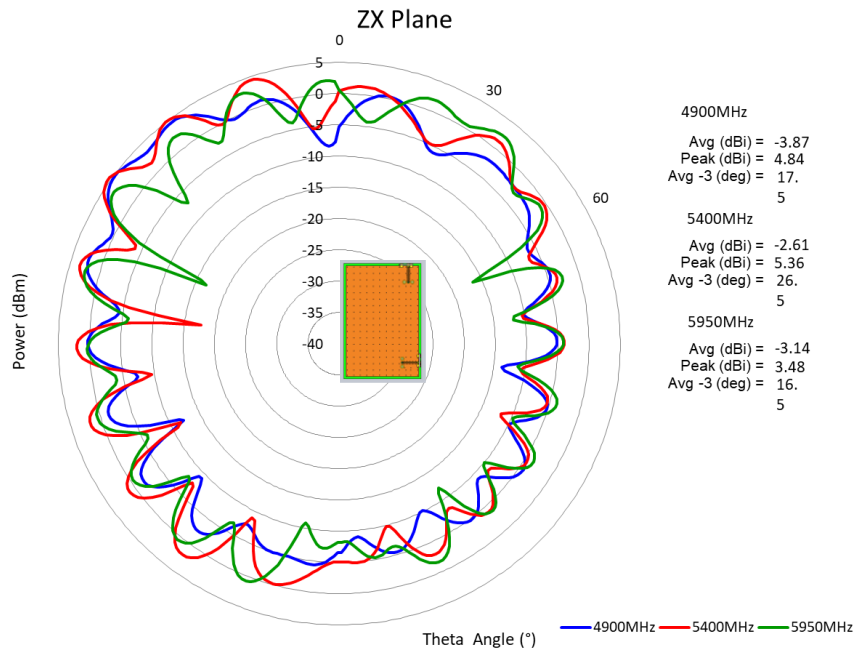
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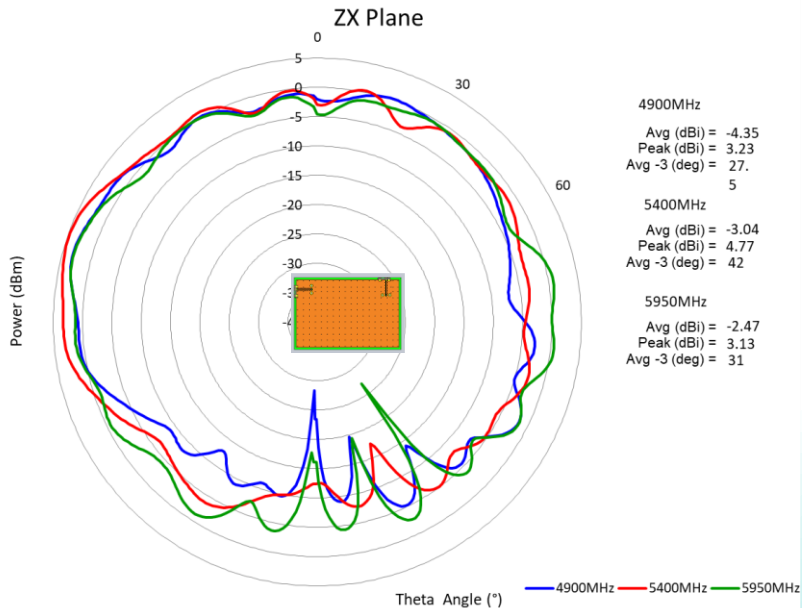
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CHARTS

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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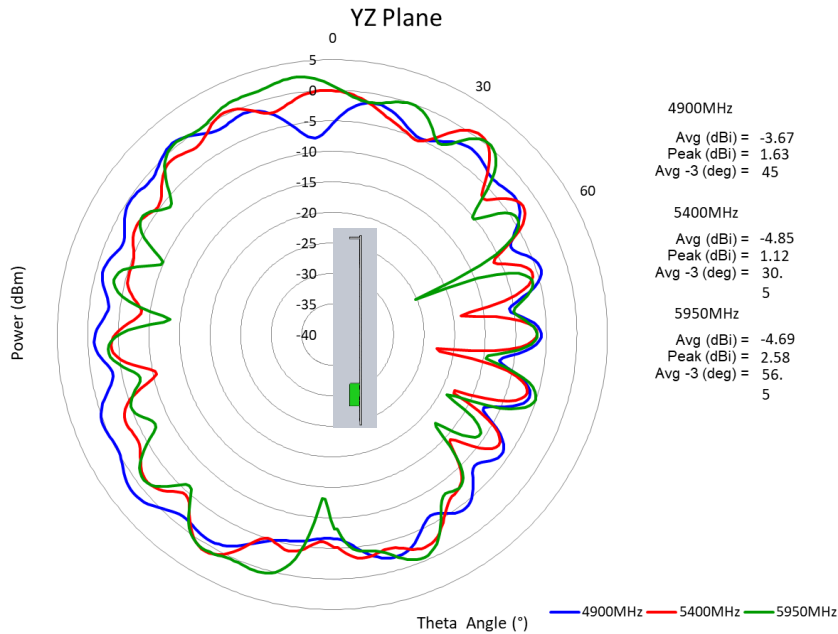
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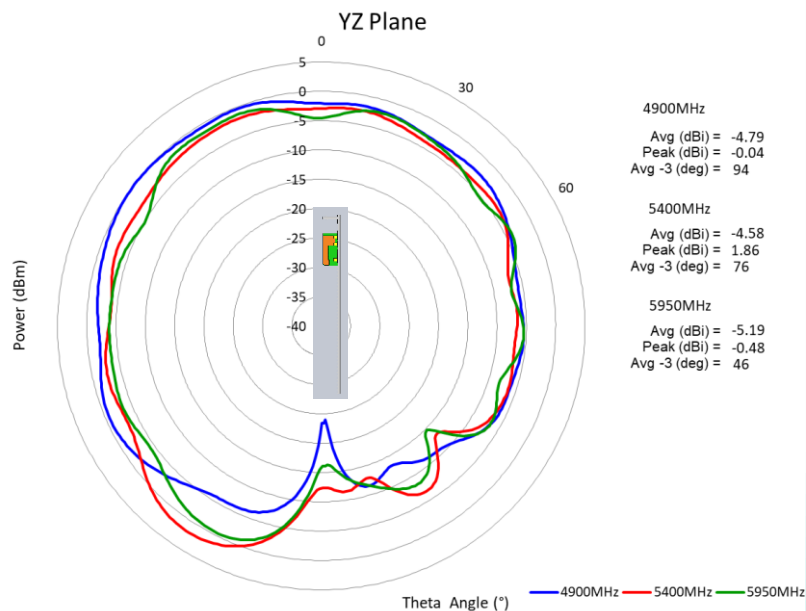
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CHARTS

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



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



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Description: 2.4/5GHz Vertical mount PCB  
Antenna

PART NUMBER: W3712

## 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

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

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