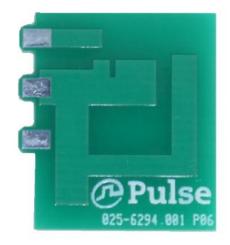


TECHNICAL DATA SHEET

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

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

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TECHNICAL DATA SHEET

Description: 2.4/5GHz Vertical mount PCB

Antenna

PART NUMBER: W3712

ELECTRICAL SPECIFICATIONS

Frequency 2400-2500/4900-5950 MHz Nominal Impedance 50Ω *VSWR 2:1 Radiation Pattern Omni *Gain >3dBi *Efficiency >60% Vertical **Polarization** 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 $^{\circ}$ C Storage Temperature -40° C~+85 $^{\circ}$ C

RoHS Compliant Yes

OTHER SPECIFICATIONS



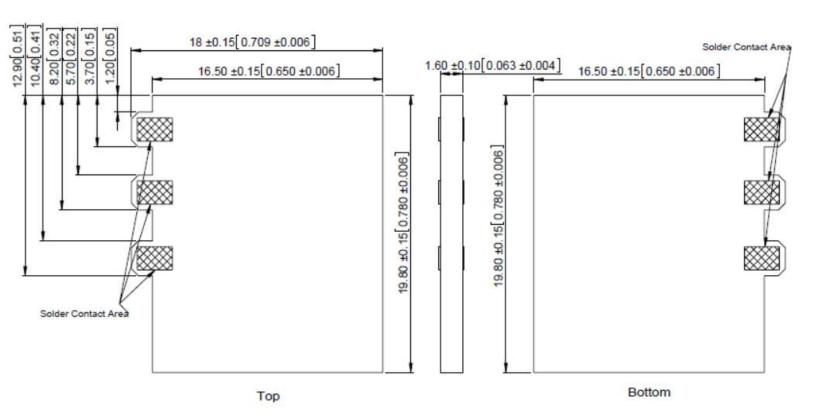
TECHNICAL DATA SHEET

Description: 2.4/5GHz Vertical mount PCB

Antenna

PART NUMBER: W3712

MECHANICAL DRAWING



Dimension Unit: mm[Inch]



TECHNICAL DATA SHEET

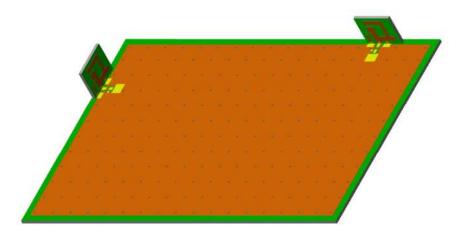
Description: 2.4/5GHz Vertical mount PCB

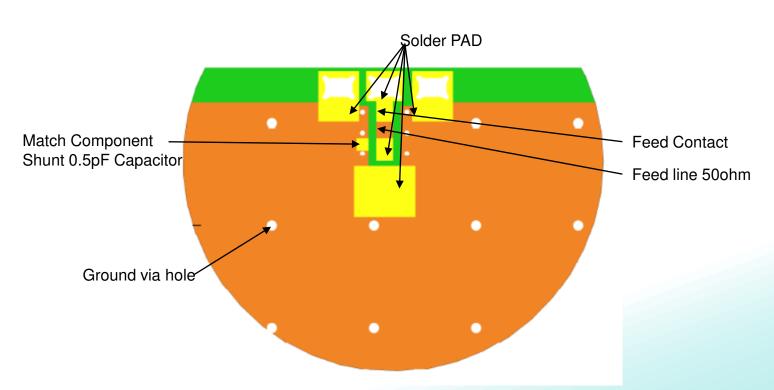
Antenna

PART NUMBER: W3712

TEST SETUP

Test PWB for PCB Antenna W3712





Issue: 1812

ROHS



TECHNICAL DATA SHEET

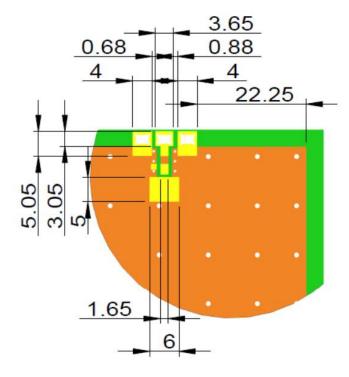
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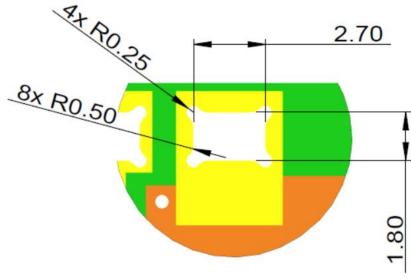
Antenna

PART NUMBER: W3712

TEST SETUP

PWB PAD Dimension in top copper









TECHNICAL DATA SHEET

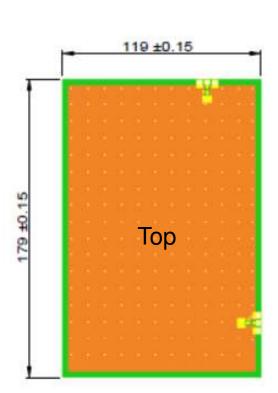
Description: 2.4/5GHz Vertical mount PCB

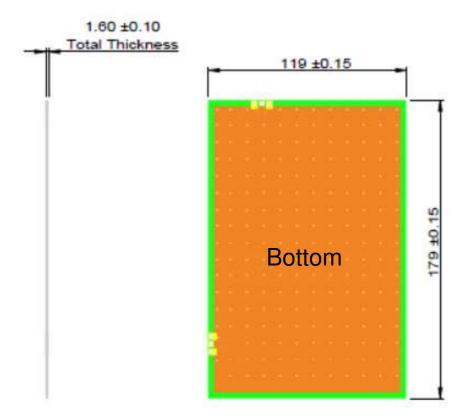
Antenna

PART NUMBER: W3712

TEST SETUP

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







TECHNICAL DATA SHEET

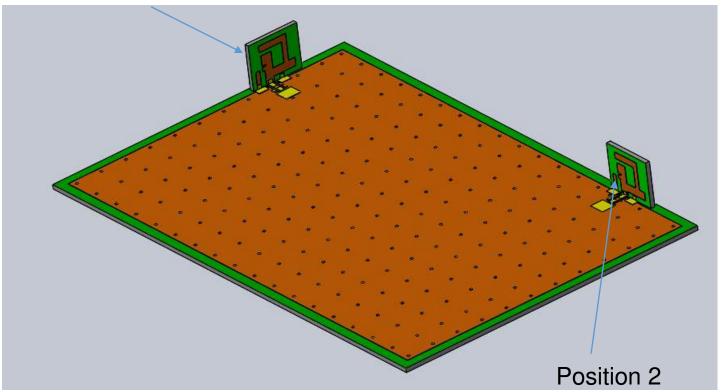
Description: 2.4/5GHz Vertical mount PCB

Antenna

PART NUMBER: W3712

TEST SETUP

Position 1



Test on Pulse test board in free space.



TECHNICAL DATA SHEET

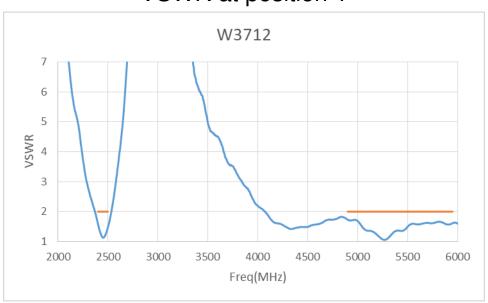
Description: 2.4/5GHz Vertical mount PCB

Antenna

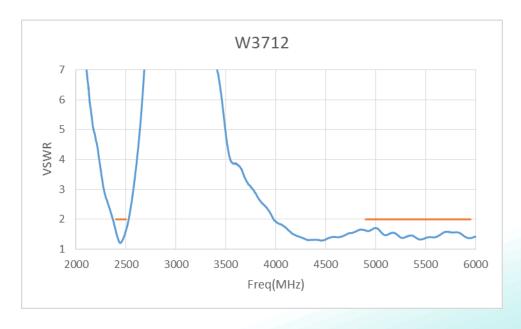
PART NUMBER: W3712

CHARTS

VSWR at position 1



VSWR at position 2









TECHNICAL DATA SHEET

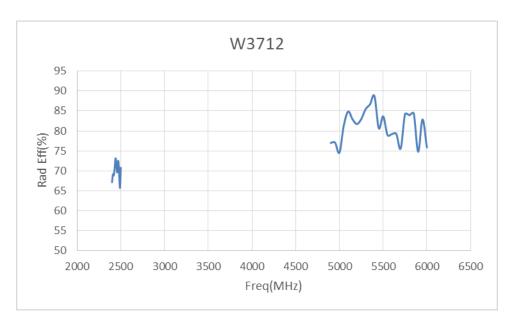
Description: 2.4/5GHz Vertical mount PCB

Antenna

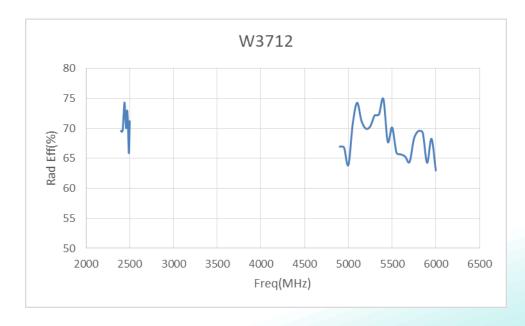
PART NUMBER: W3712

CHARTS

Radiation Efficiency at position 1



Radiation Efficiency at position 2









TECHNICAL DATA SHEET

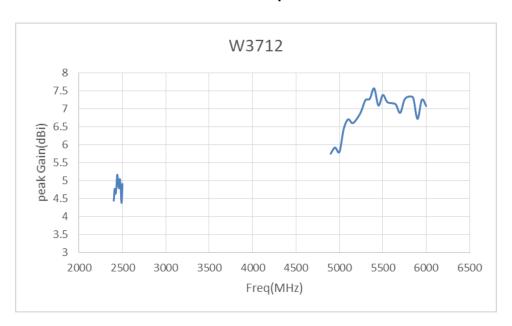
Description: 2.4/5GHz Vertical mount PCB

Antenna

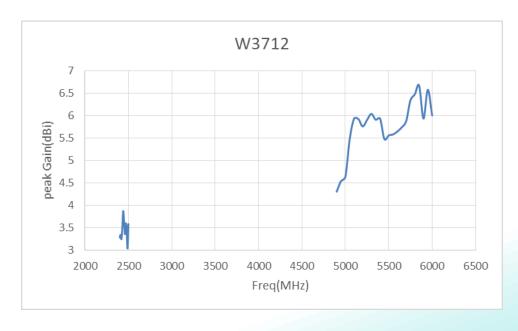
PART NUMBER: W3712

CHARTS

Peak Gain at position 1



Peak Gain at position 2







TECHNICAL DATA SHEET

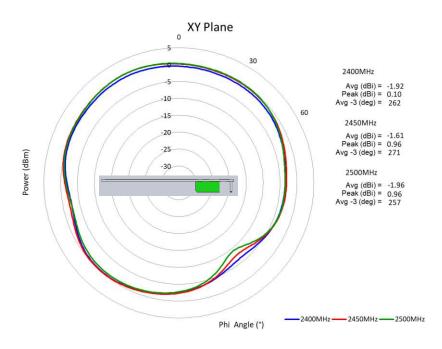
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Antenna

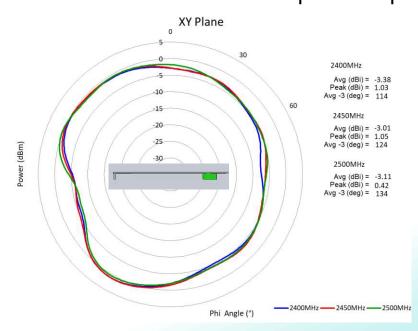
PART NUMBER: W3712

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







TECHNICAL DATA SHEET

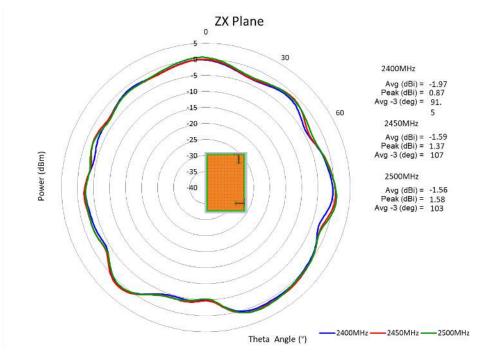
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Antenna

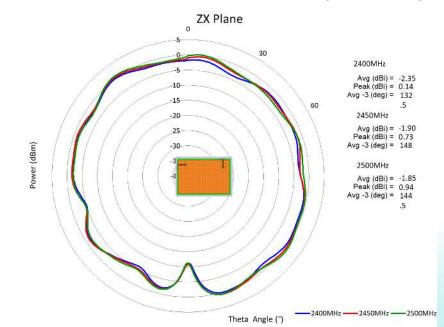
PART NUMBER: W3712

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

ROHS



TECHNICAL DATA SHEET

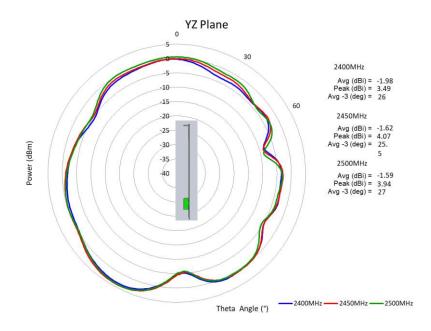
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Antenna

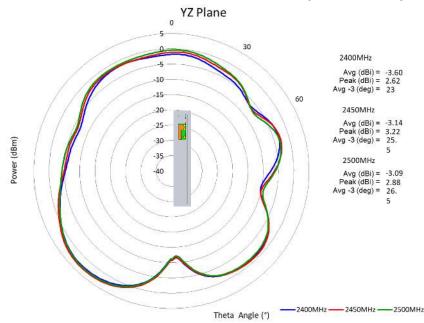
PART NUMBER: W3712

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



Issue: 1812

RŏHS



TECHNICAL DATA SHEET

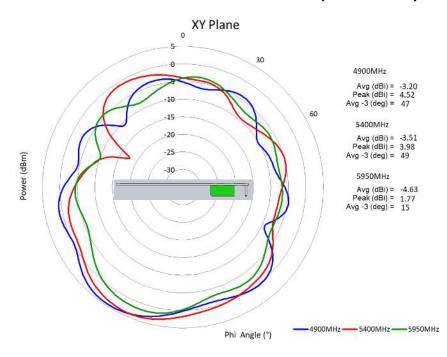
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Antenna

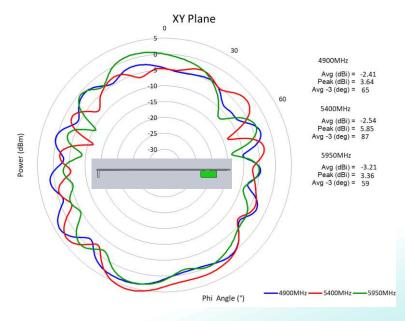
PART NUMBER: W3712

CHARTS

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



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





TECHNICAL DATA SHEET

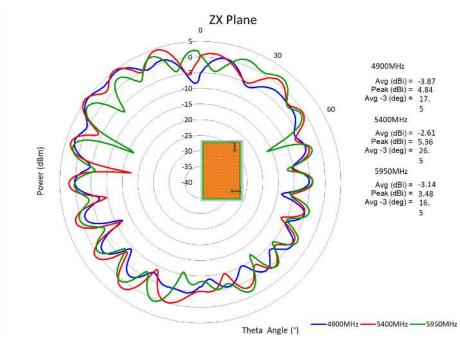
Description: 2.4/5GHz Vertical mount PCB

Antenna

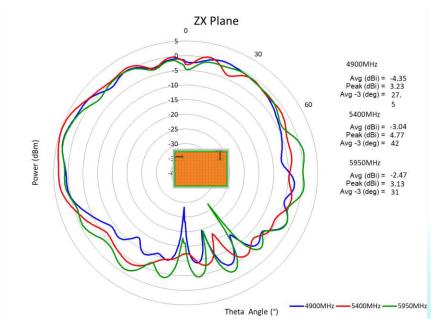
PART NUMBER: W3712

CHARTS

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



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



Issue: 1812

RoHS



TECHNICAL DATA SHEET

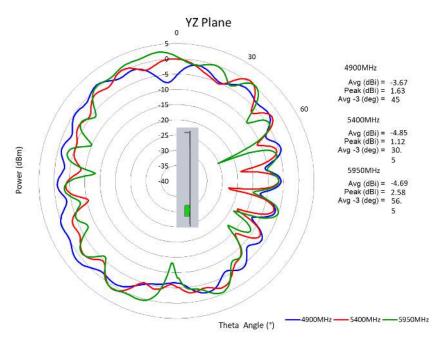
Description: 2.4/5GHz Vertical mount PCB

Antenna

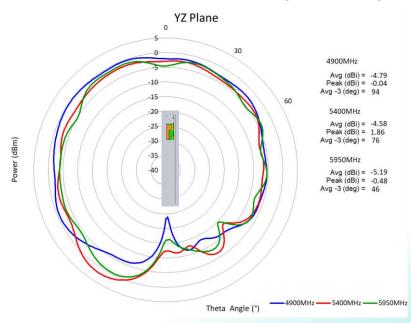
PART NUMBER: W3712

CHARTS

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



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







TECHNICAL DATA SHEET

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