

TECHNICAL DATA SHEET Description: 2.4GHz Vertical Mount PCB Antenna PART NUMBER: W3716





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

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Series: Embedded PCB Ant

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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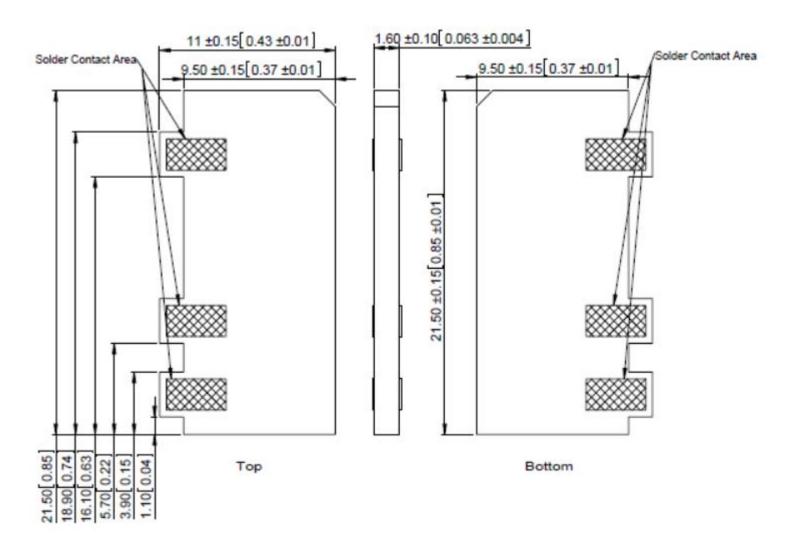


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MECHANICAL DRAWING



Dimension Unit: mm[Inch]

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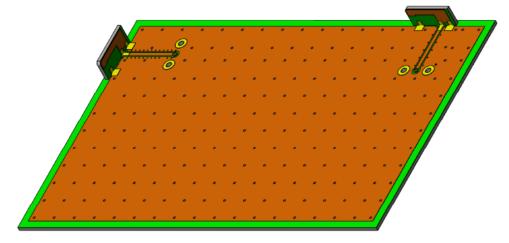


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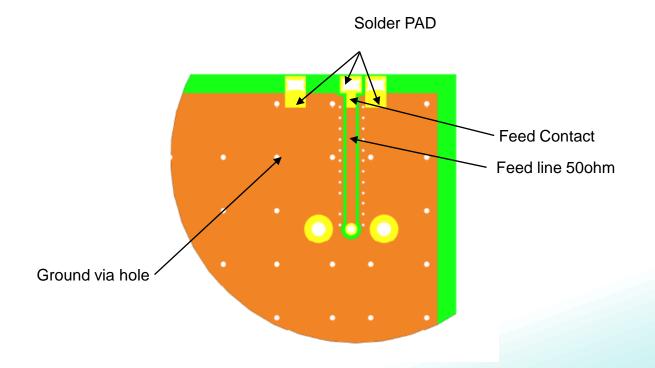


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Test PWB for PCB Antenna W3716



TEST SETUP



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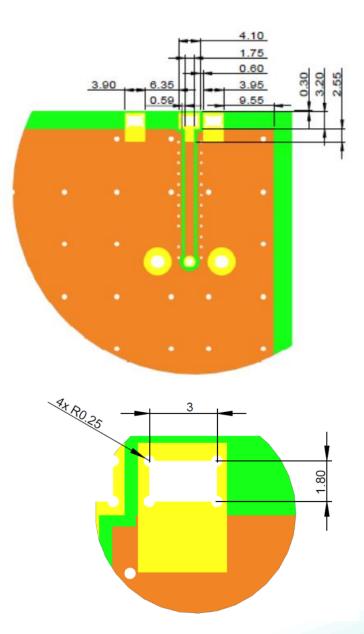




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TEST SETUP

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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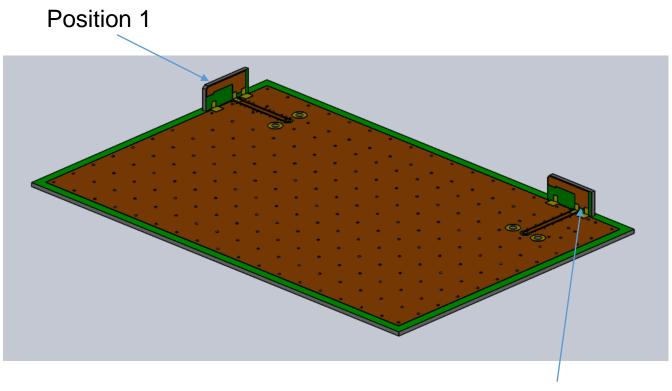


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TEST SETUP



Position 2

Test on Pulse test board in free space.

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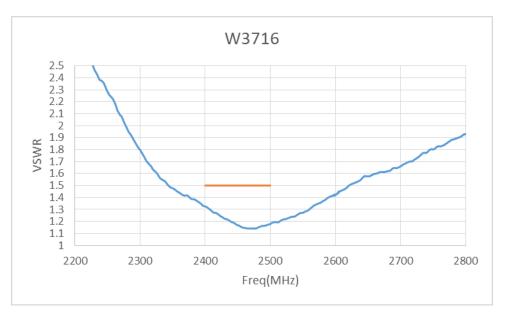




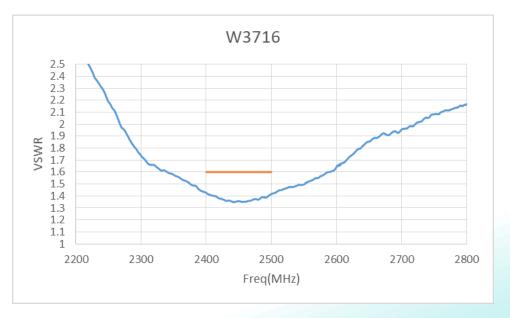
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CHARTS

VSWR at position 1



VSWR at position 2



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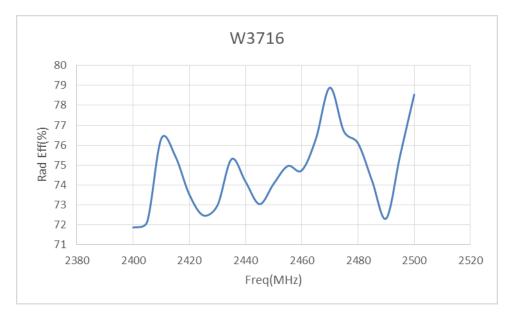
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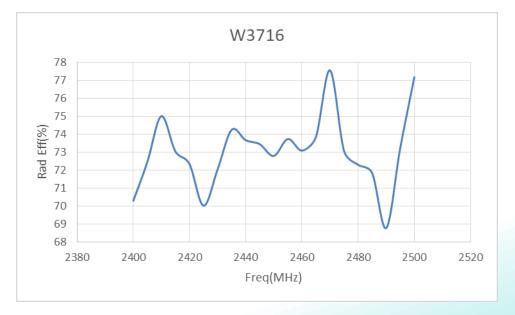
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CHARTS

Radiation Efficiency at position 1



Radiation Efficiency at position 2



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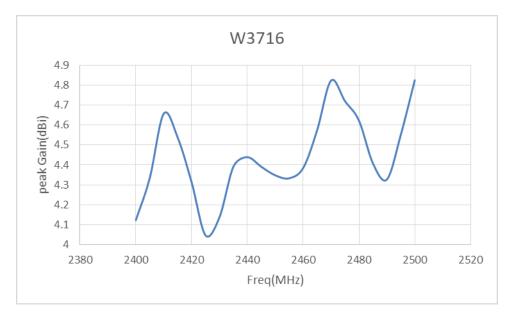
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TECHNICAL DATA SHEET Description: 2.4GHz Vertical Mount PCB Antenna PART NUMBER: W3716

CHARTS

Peak Gain at position 1



Peak Gain at position 2



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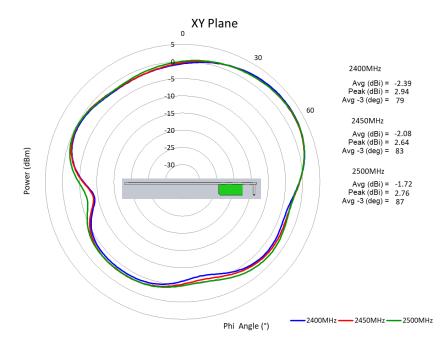
ROHS 10



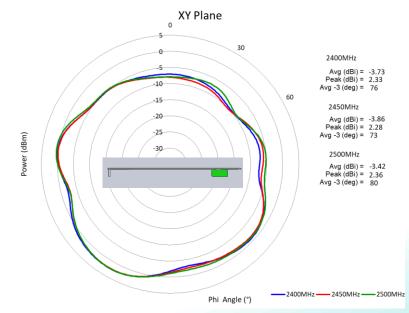
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CHARTS

Radiation Pattern of X-Y plane at position 1



Radiation Pattern of X-Y plane at position 2



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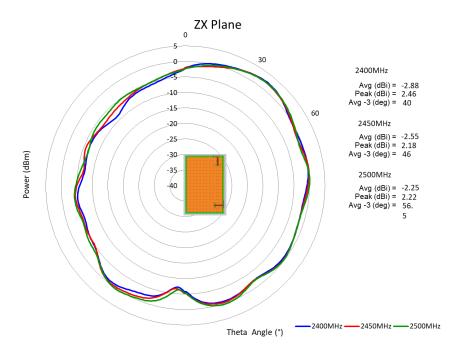
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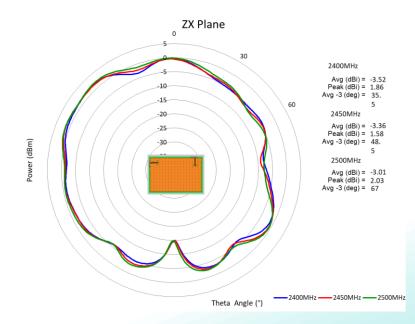
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CHARTS

Radiation Pattern of Z-X plane at position 1



Radiation Pattern of Z-X plane at position 2



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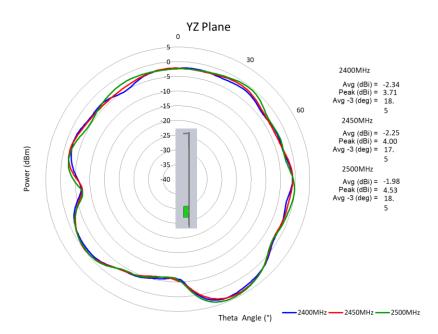
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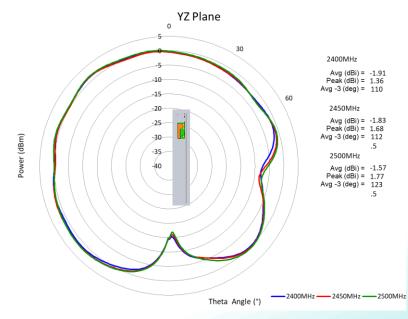
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CHARTS

Radiation Pattern of Y-Z plane at position 1



Radiation Pattern of Y-Z plane at position 2



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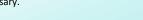




TECHNICAL DATA SHEET **Description: 2.4GHz Vertical Mount PCB** Antenna PART NUMBER: W3716

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



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