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TECHNICAL DATA SHEET

Description: 2.4-2.5GHz PCB Antenna with coax feed

Series: Internal PCB

PART NUMBER:W3525BXXX



Features:

- 2400-2500 MHz
- Size: 10.7 x 47.7 x 0.8 mm
- Gain 1.5dBi
- Radiation pattern Omni
- Cable length, see page 2
- Connector U.FL compatible
- RoHS Compliant

Applications:

- 2.4GHz ISM band radios
- WiFi, Bluetooth, BLE, ZigBee
- Devices requiring internal antenna
- Security, IoT, Monitoring, Industrial applications

All dimensions are in mm / inches

Issue: 2105

RoHS COMPLIANT

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Pulse (Suzhou) Wireless Products Co, Inc.
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Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

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This document covers all product variants of the following product family

Part Number	Cable Length	Adhesive Tape	Cable type	Connector type	Frequency	Max Gain
W3525B039	3.9" / 100 mm	N.A.	Ø1.13mm Coax Cable, Gray color	I-PEX MHF or euivalent, Compatible with U.FL	2.4 GHz	2 dBi
W3525B052	5.2" / 132.1 mm	N.A.				
W3525B100	10" / 254 mm	N.A.				
W3525B039T	3.9" / 100 mm	3M 467 (T=0.05mm)				
W3525B0150T	150 mm	3M 467 (T=0.05mm)				
W3525B0250	250 mm	N.A.				
W3525B0250T	250 mm	3M 467 (T=0.05mm)				
W3525B254T	254 mm	3M 467 (T=0.05mm)				

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ELECTRICAL SPECIFICATIONS

Antenna Type	Dipole PCB+Cable
Frequency	2400-2500MHz
Nominal Impedance	50 Ω
VSWR	2.5:1
Radiation Pattern	Omni
Gain	1.5dBi
Efficiency	55%
Polarization	Vertical
Power Withstanding	1W

MECHANICAL SPECIFICATIONS

Overall Length	10.7x47.7x0.8mm
Antenna Material	PCB
Connector type	I-PEX or equivalent
Cable type	MI-113 Gray

ENVIRONMENTAL SPECIFICATIONS

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

OTHER SPECIFICATIONS

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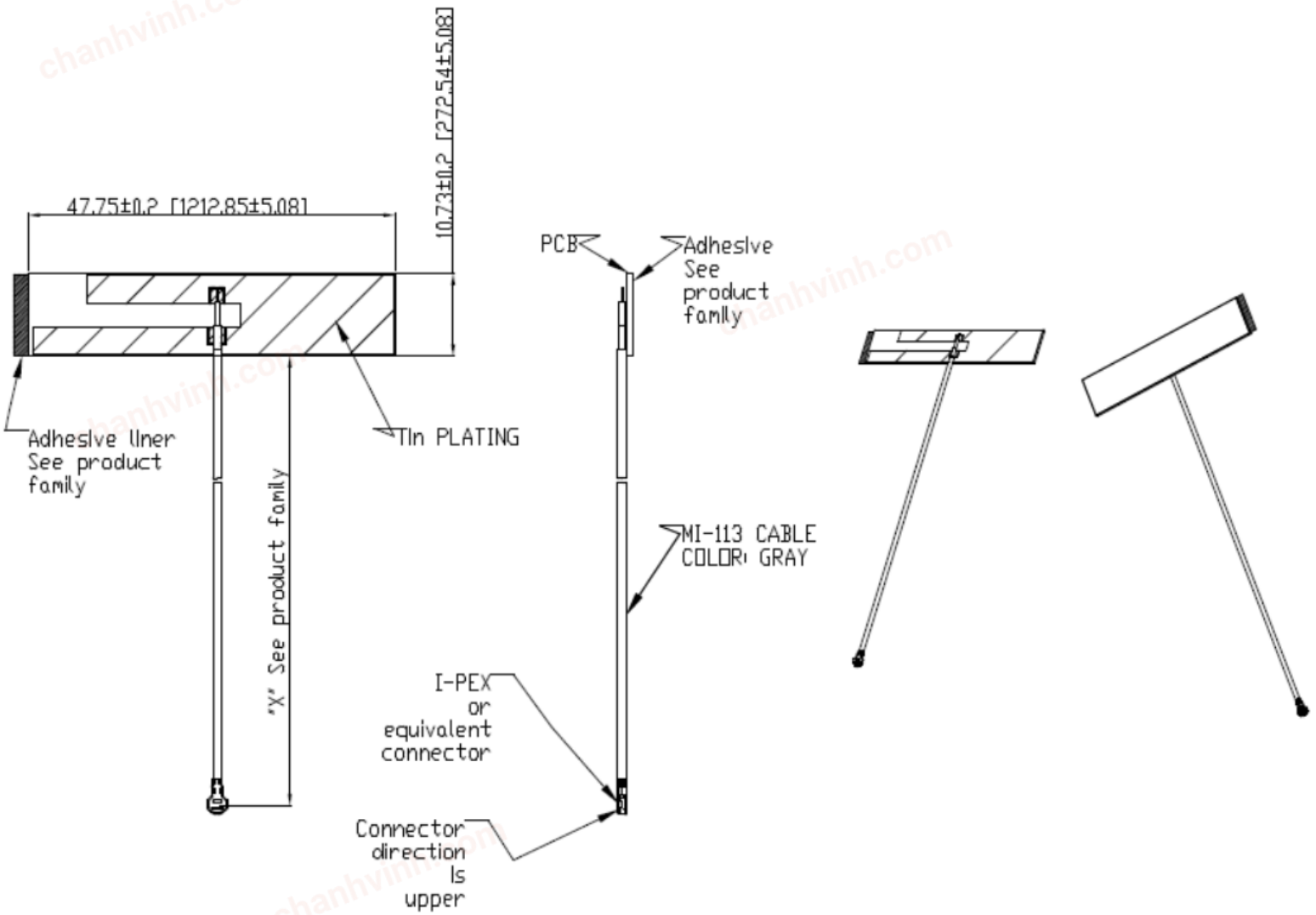
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MECHANICAL DRAWING



Part Number	Frequency(GHz)	Max Gain(dBi)	Impedance(ohm)	PWB Length(in/mm)	Cable Length(in/mm)	Adhesive Tape
W3525B039	2.4	2	50	1.87/47.7	3.9/100	N/A
W3525B052	2.4	2	50	1.87/47.7	5.2/132.1	N/A
W3525B100	2.4	2	50	1.87/47.7	10/254	N/A
W3525B039T	2.4	2	50	1.87/47.7	3.9/100	Required

Dimension unit: mm/inch

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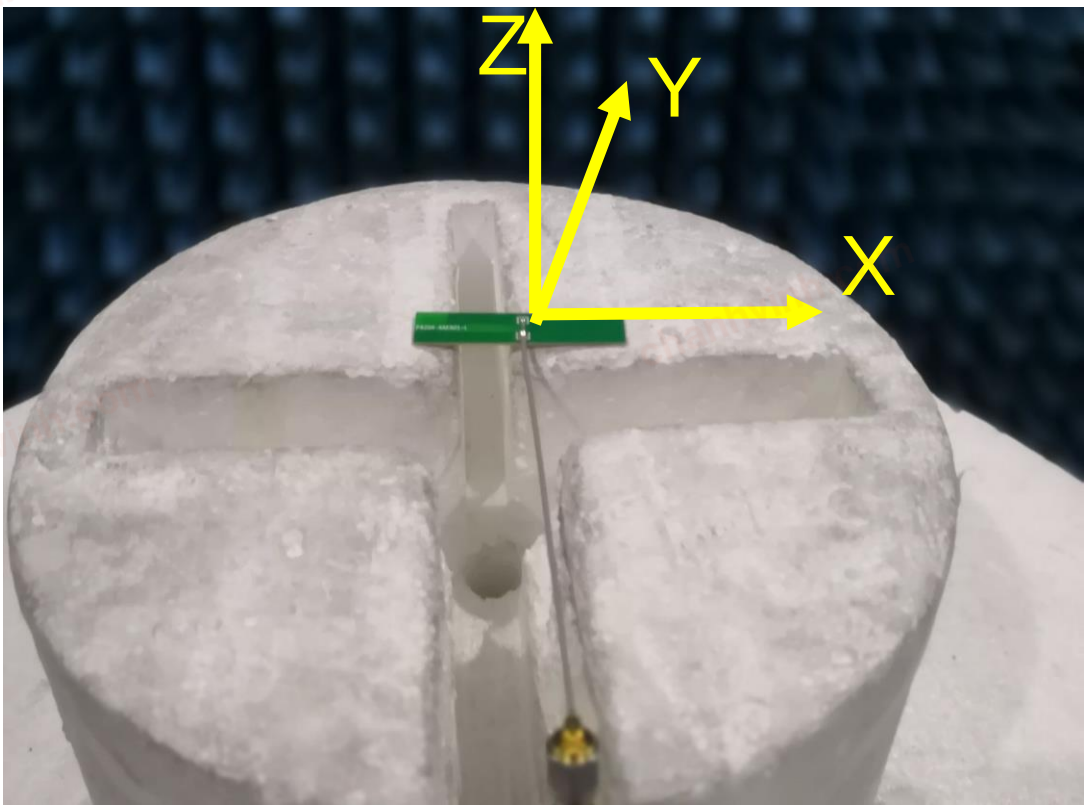
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TEST SETUP



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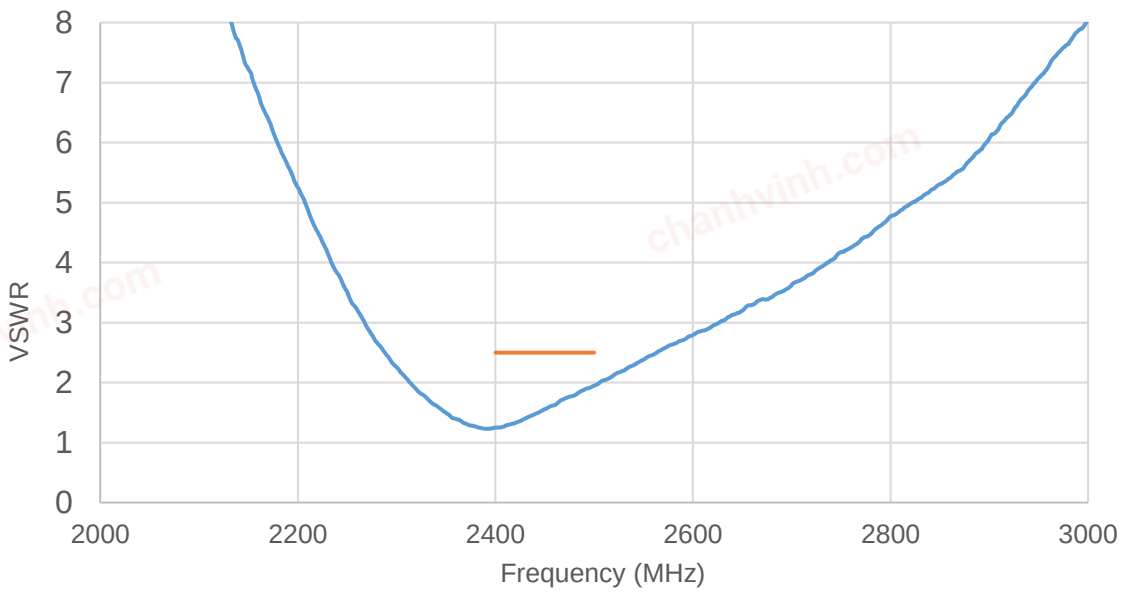
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CHARTS

VSWR



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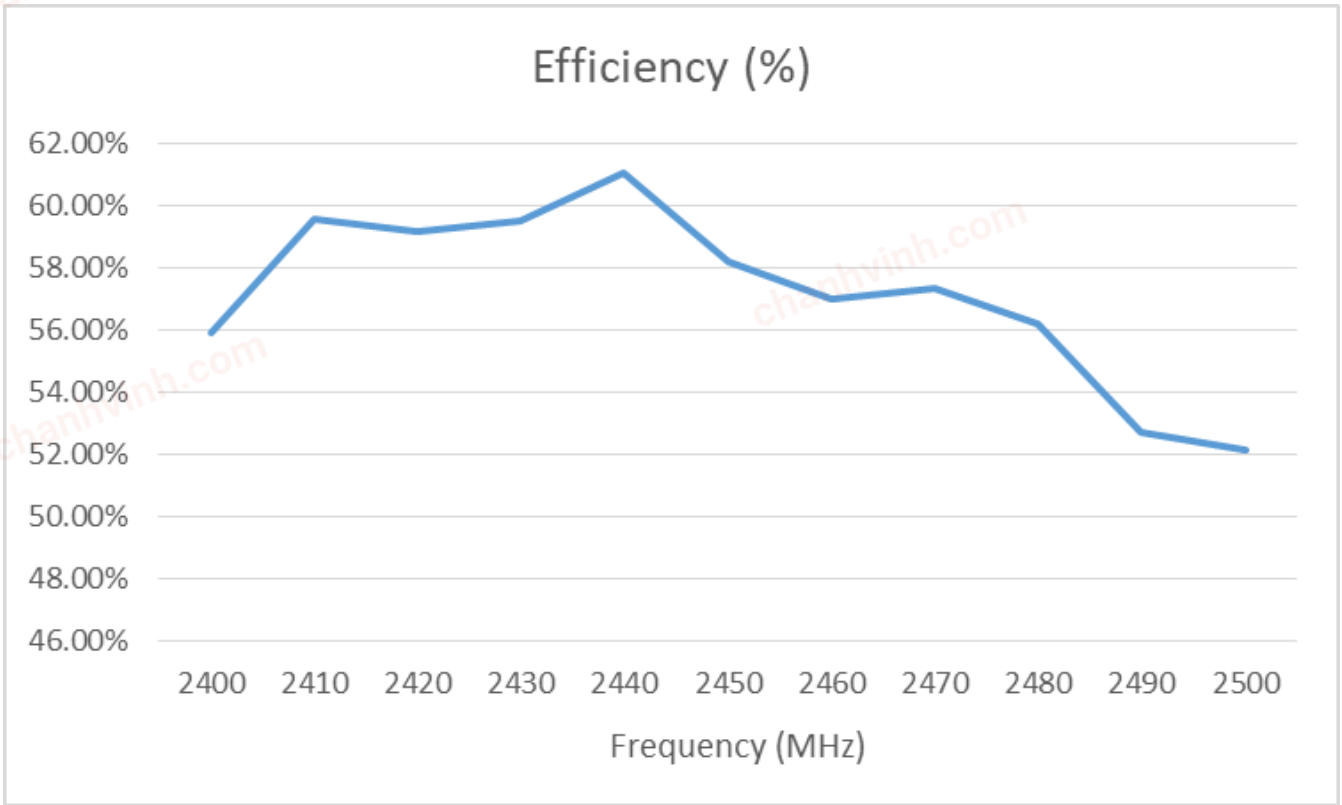
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CHARTS

Efficiency



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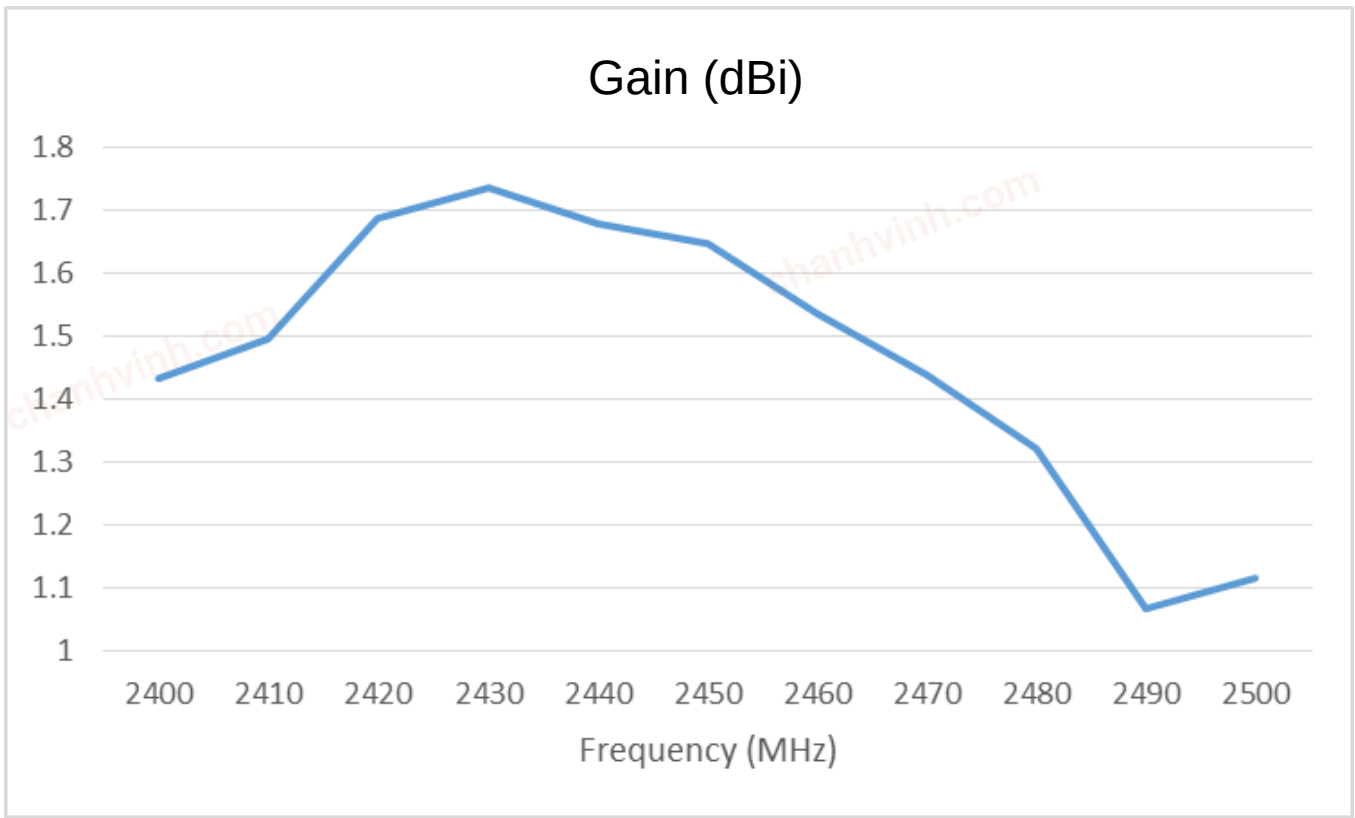
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CHARTS

Gain



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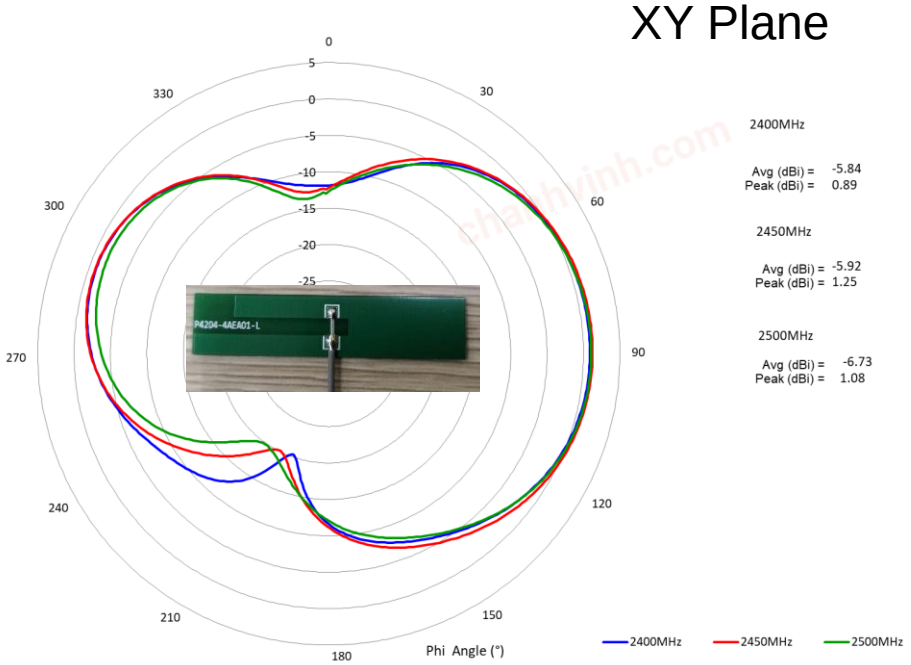
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CHARTS

Free Space Radiation Pattern

XY Plane



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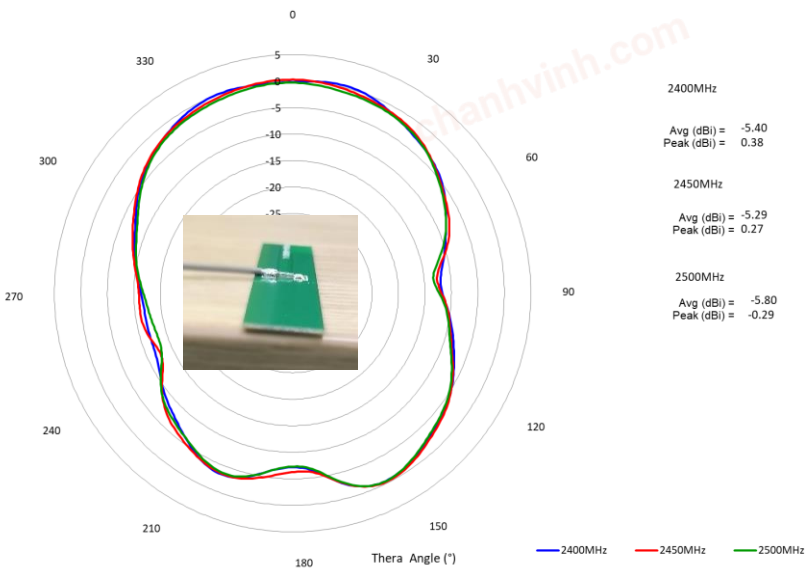
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CHARTS

Free Space Radiation Pattern

XZ Plane



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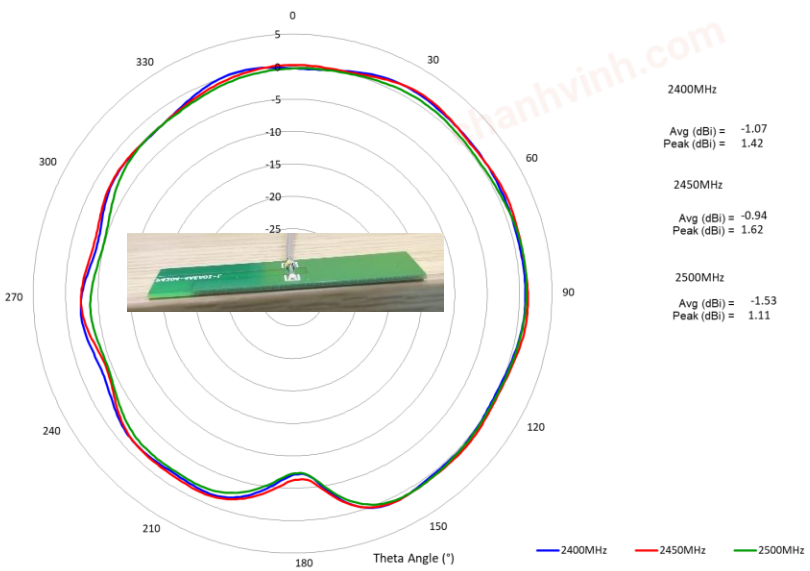
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CHARTS

Free Space Radiation Pattern

YZ Plane



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PACKAGING

For W3525B039 and W3525B039T and W3525B052
10pcs antennas packing packed in 1 sealed bag
10pcs sealed bags (total 100pcs antennas) packed in 1 foam bag
12pcs foam bags (total 1200pcs antennas) packed in 1 carton
460x235x140mm

For W3525B100
5pcs antennas packing packed in 1 sealed bag
20pcs sealed bags (total 100pcs antennas) packed in 1 foam bag
12pcs foam bags (total 1200pcs antennas) packed in 1 carton
460x235x140mm

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