

**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

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Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg,4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



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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**Description:** 2.4-2.5GHz PCB Antenna with coax feed**PART NUMBER:** W3525BXXX**Series: Internal PCB****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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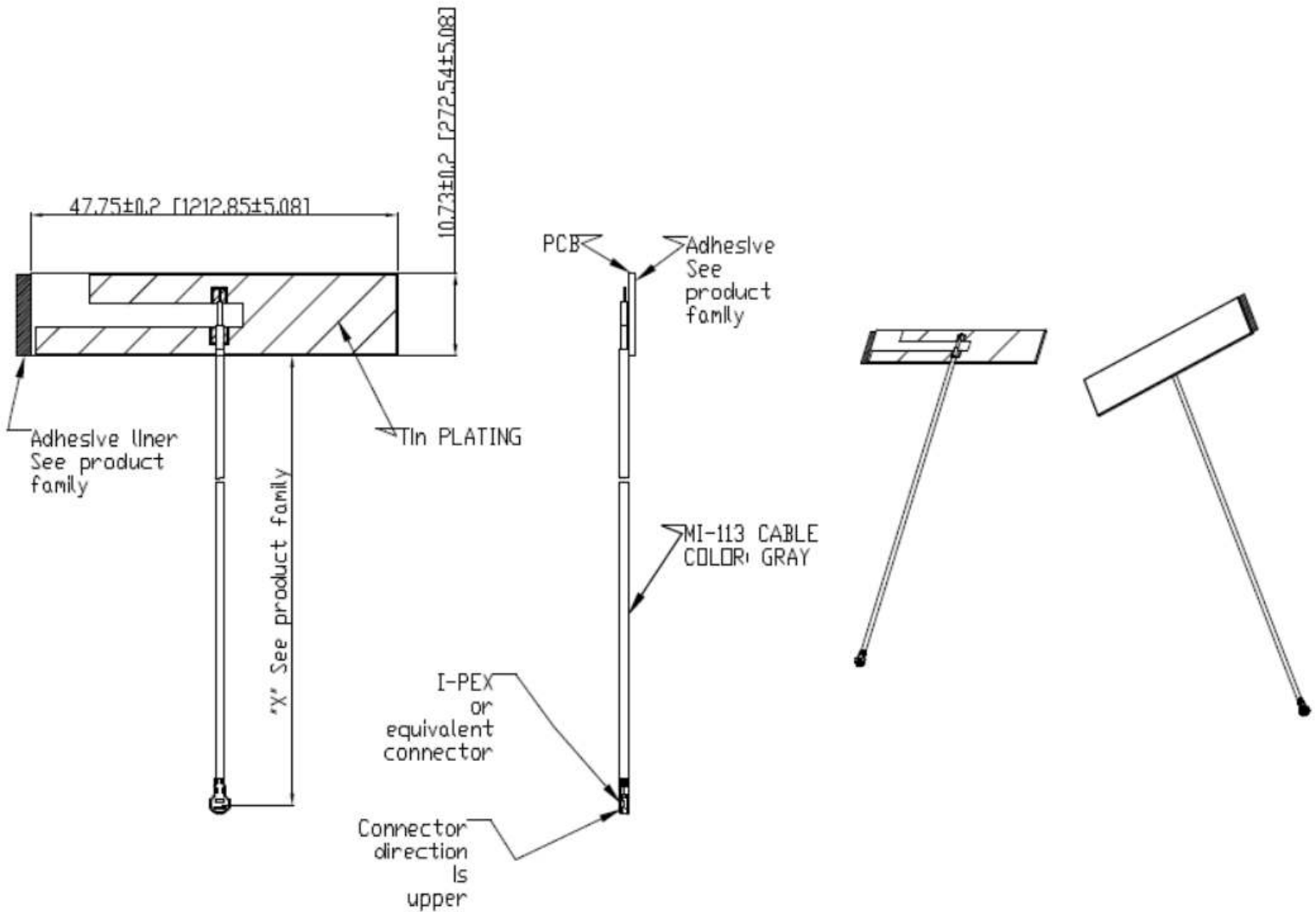
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**Description:** 2.4-2.5GHz PCB Antenna with coax feed

**PART NUMBER:** W3525BXXX

**Series:** Internal PCB

**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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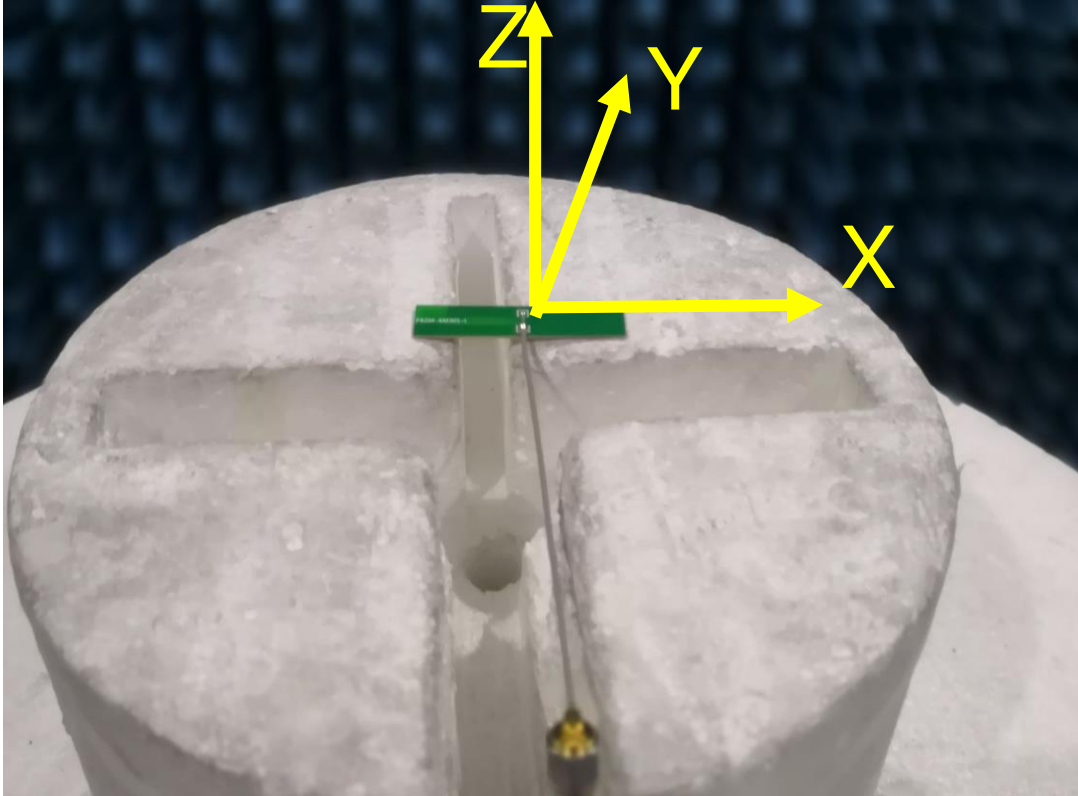
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## TEST SETUP



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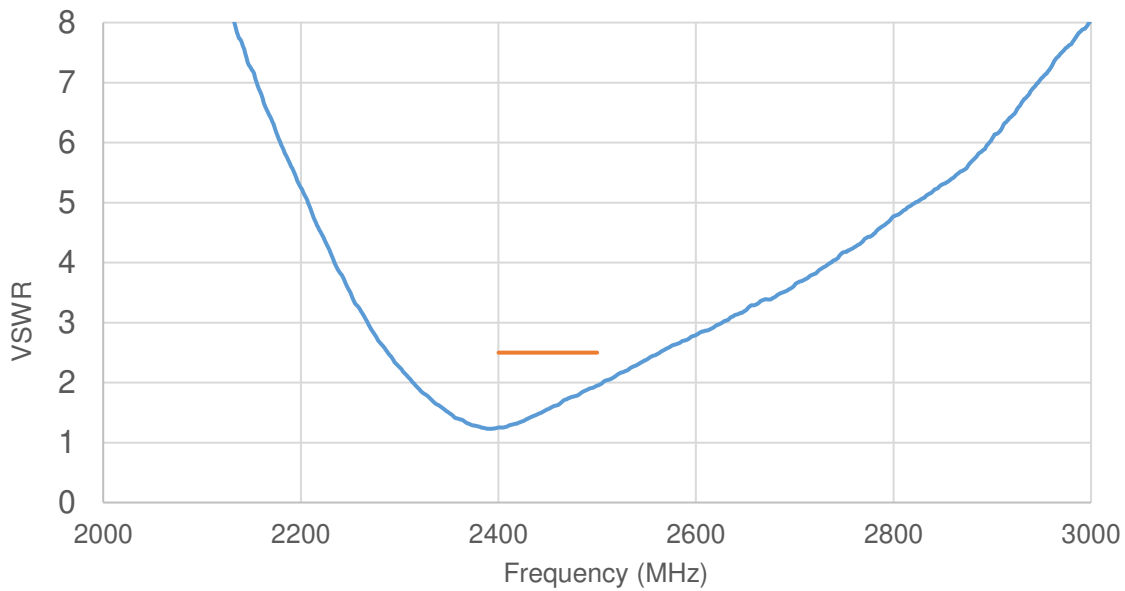
**Description:** 2.4-2.5GHz PCB Antenna with coax feed

**PART NUMBER:** W3525BXXX

**Series:** Internal PCB

### CHARTS

#### VSWR

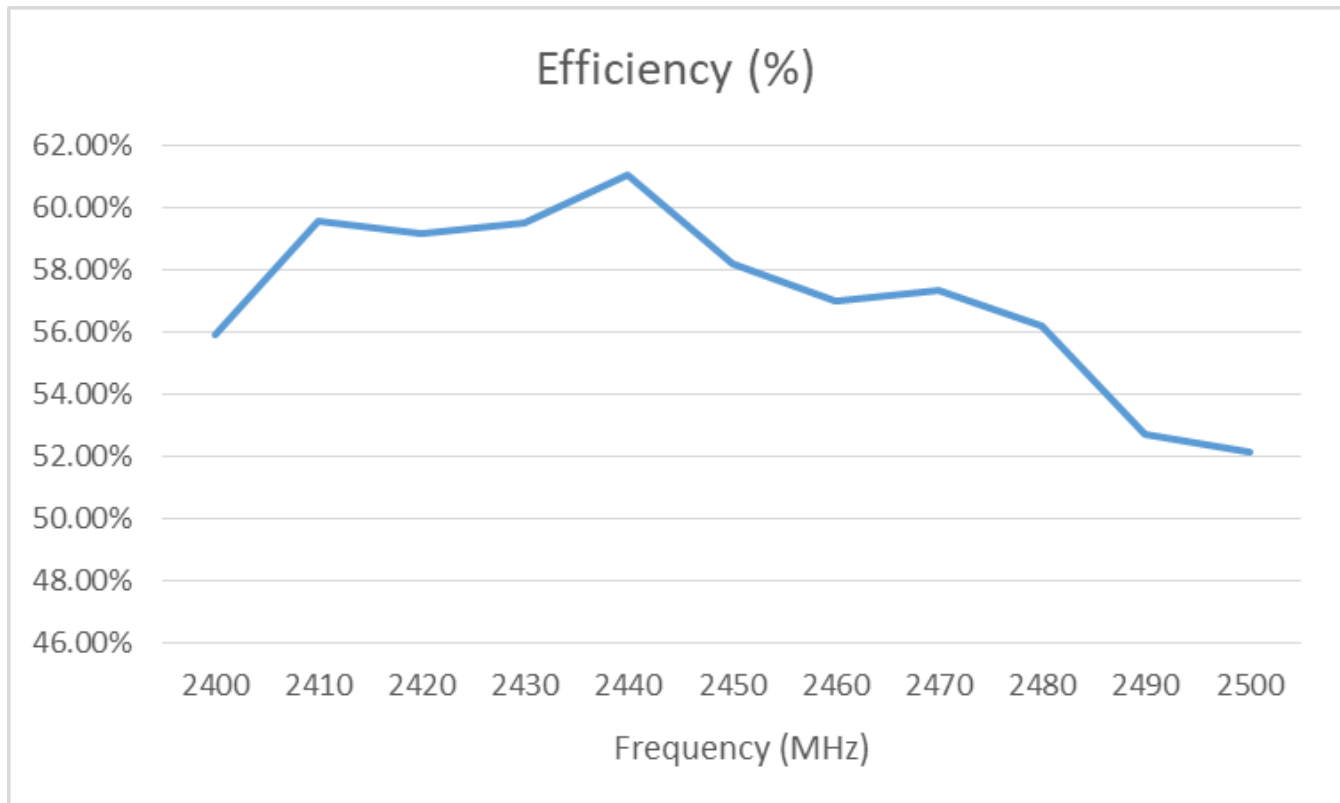


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**Description:** 2.4-2.5GHz PCB Antenna with coax feed**PART NUMBER:** W3525BXXX**Series:** Internal PCB**CHARTS****Efficiency**

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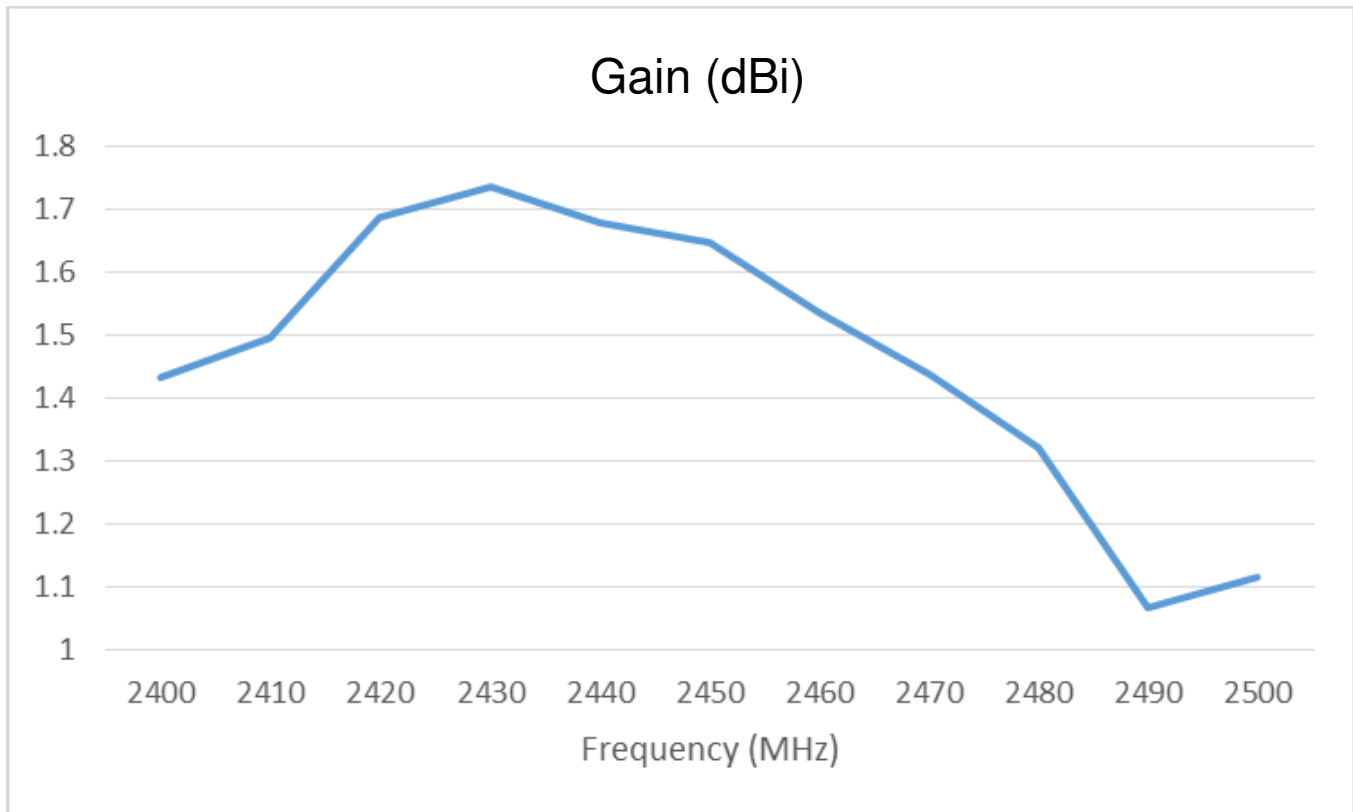
**Description:** 2.4-2.5GHz PCB Antenna with coax feed

**PART NUMBER:** W3525BXXX

**Series:** Internal PCB

## CHARTS

### Gain



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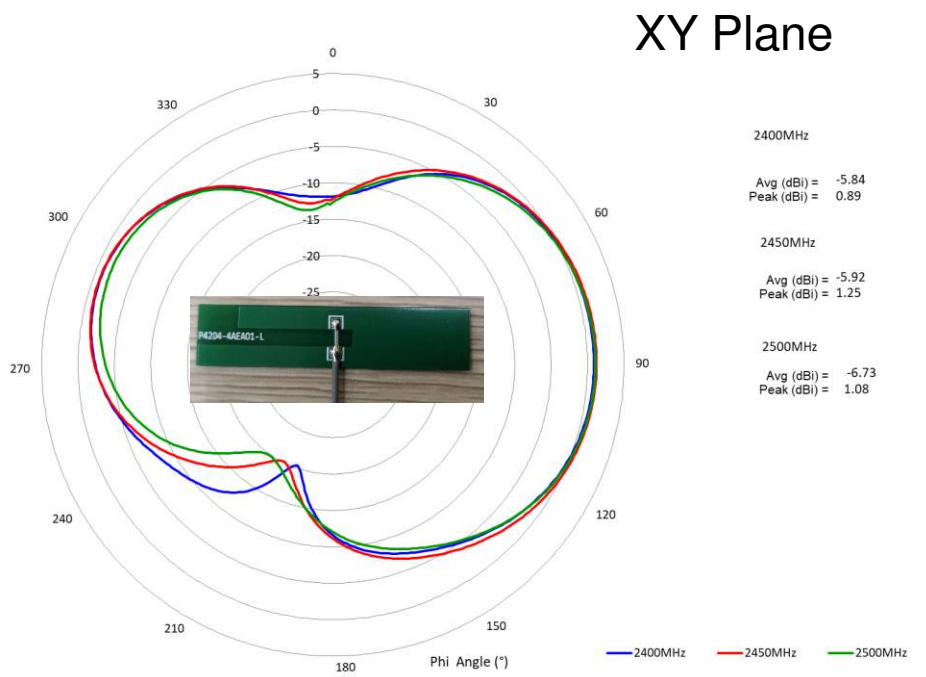
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**PART NUMBER:** W3525BXXX

**Series:** Internal PCB

### CHARTS

## Free Space Radiation Pattern



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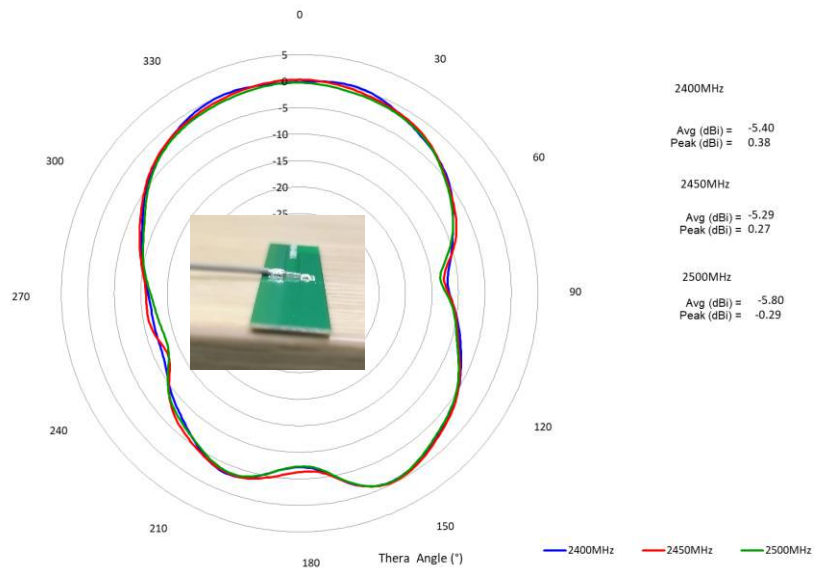
**PART NUMBER:** W3525BXXX

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### CHARTS

## Free Space Radiation Pattern

### XZ Plane



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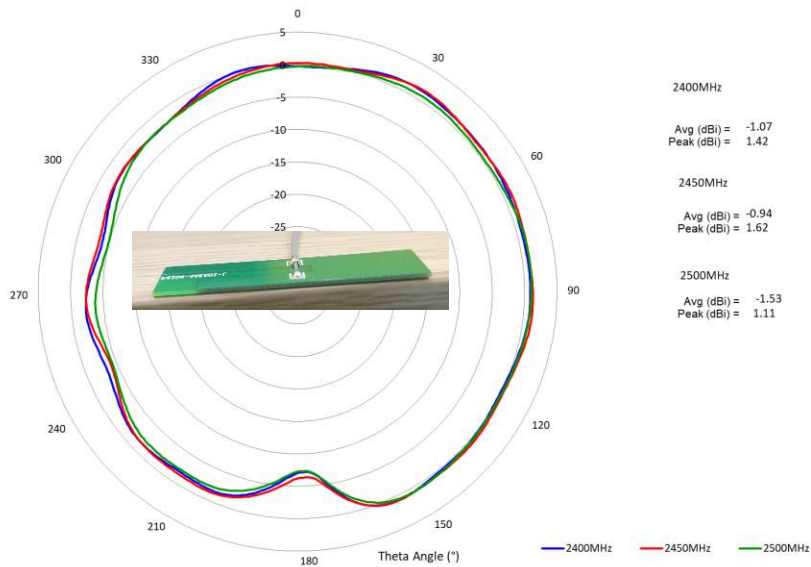
**PART NUMBER:** W3525BXXX

**Series:** Internal PCB

### CHARTS

## Free Space Radiation Pattern

### YZ Plane



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**Description:** 2.4-2.5GHz PCB Antenna with coax feed

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**Series:** Internal PCB

## 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