

Description: FPC 2.4G antenna

Series: Internal Antenna

PART NUMBER: W3921XXXXX

**Features:**

- 2400-2500MHz FPC dipole
- Efficiency >50%
- Gain +1dBi
- 100mm cable length and U.FL compatible connector as standard setup, P/N W3921B0100
- Custom configurations upon request

Applications:

- Bluetooth, Zigbee, WiFi, BLE
- ISM 2.4GHz band radios
- Set top boxes,
- Security
- Transportation

All dimensions are in mm / inches

Issue: 2235

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

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This document covers all product variants of the following product family:

W3921B0039	39mm 1.13mm OD cable	U.FL compatible connector
W3921B0050	50mm 1.13mm OD cable	U.FL compatible connector
W3921B0100	100mm 1.13mm OD cable	U.FL compatible connector
W3921T0150	150mm 0.81mm OD cable	W.FL compatible connector
W3921B0150	150mm 1.13mm OD cable	U.FL compatible connector
W3921B0120	120mm 1.13mm OD cable	U.FL compatible connector
W3921B0200	200mm 1.13mm OD cable	U.FL compatible connector

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ELECTRICAL SPECIFICATIONS

Frequency	2400-2500MHz
Nominal Impedance	50Ω
VSWR	< 2
Gain	1dBi +/- 1 dB
Efficiency	50%
Radiation Pattern	Omni
Polarization	Linear
Power withstanding	2 W

(*) All RF parameters measured on 2mm thick PC plate

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MECHANICAL SPECIFICATIONS

PCB type	Flexible
Radiator size	33[1.3] x 7.7[0.3] mm[inch]
Adhesive	3M467
Total thickness (Radiator + adhesive)	0.15[0.006] mm[inch]
Weight	about 0.37 g
Cable type	OD 1.13mm/0.81mm coaxial cable
Cable length	Optional mm[inch]
Connector	U.FL/W.FL compatible

ENVIRONMENTAL SPECIFICATIONS

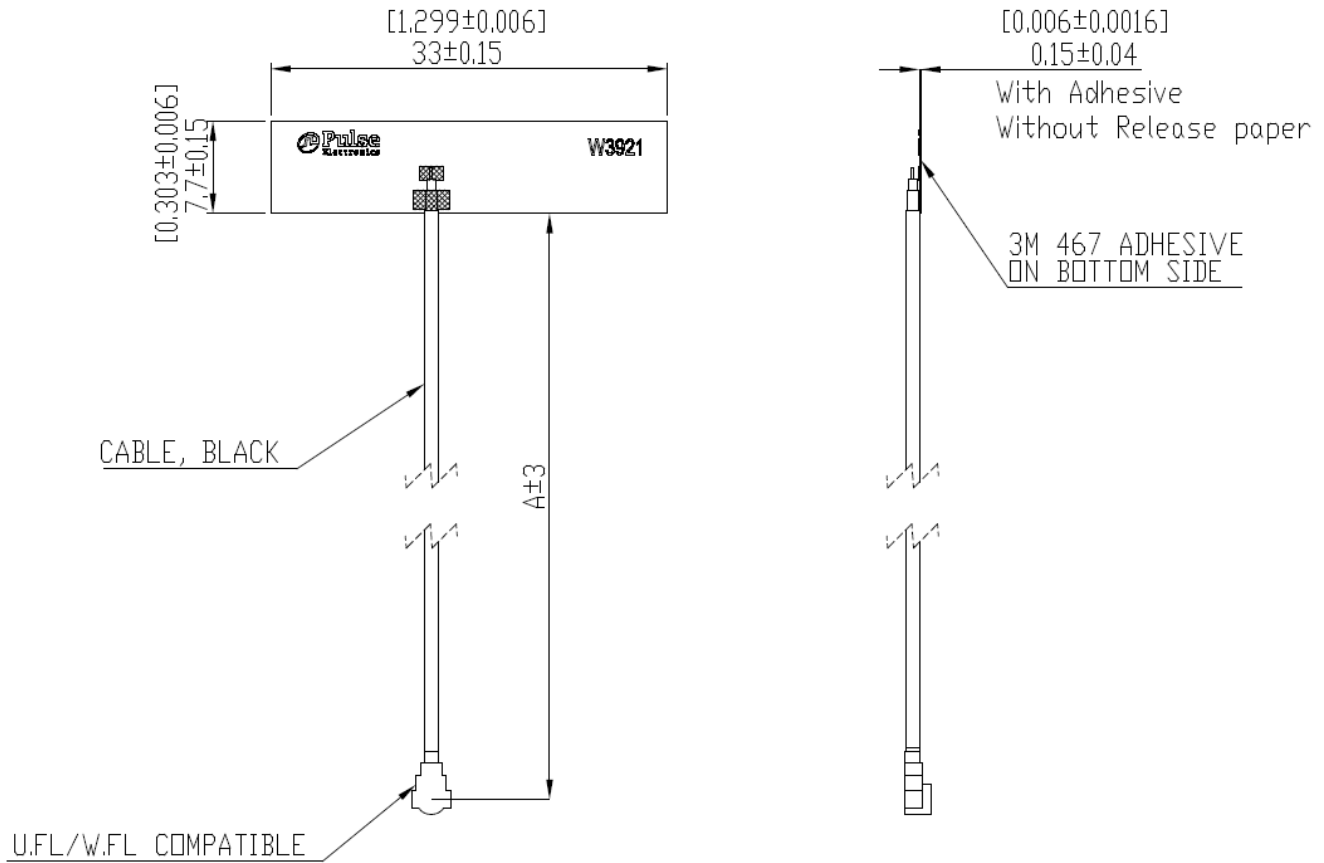
Operating temperature	-40/+85° C
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MECHANICAL DRAWING



ITEM	PROJECT	A LENGTH	CABLE P/N	Cable Diameter	CONNECTOR
1	W3921B0050	50	055-2248.001	1.13mm	U.FL COMPATIBLE
2	W3921B0100	100	055-2248.002	1.13mm	U.FL COMPATIBLE
3	W3921T0150	150	055-2248.003	0.81mm	W.FL COMPATIBLE
4	W3921B0039	39	055-2248.004	1.13mm	U.FL COMPATIBLE
5	W3921B0150	150	055-2248.005	1.13mm	U.FL COMPATIBLE
6	W3921B0200	200	055-2248.006	1.13mm	U.FL COMPATIBLE
7	W3921B0120	120	055-2248.007	1.13mm	U.FL COMPATIBLE

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Description: FPC 2.4G antenna

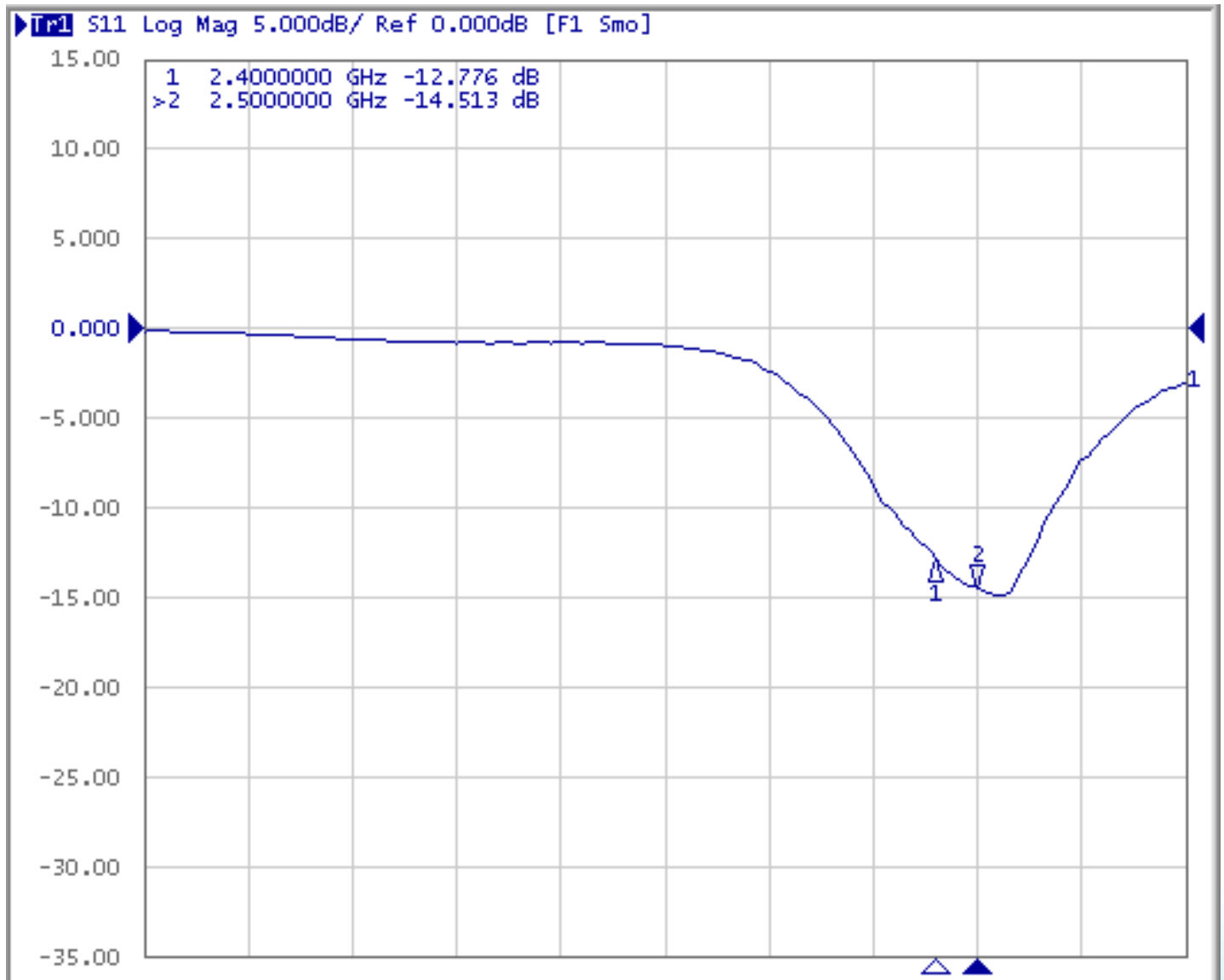
Series: Internal Antenna

PART NUMBER: W3921XXXXX

CHARTS

(* All RF parameters measured on 2mm thick PC plate

Return Loss



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Downloaded From Oneyac.com

Description: FPC 2.4G antenna

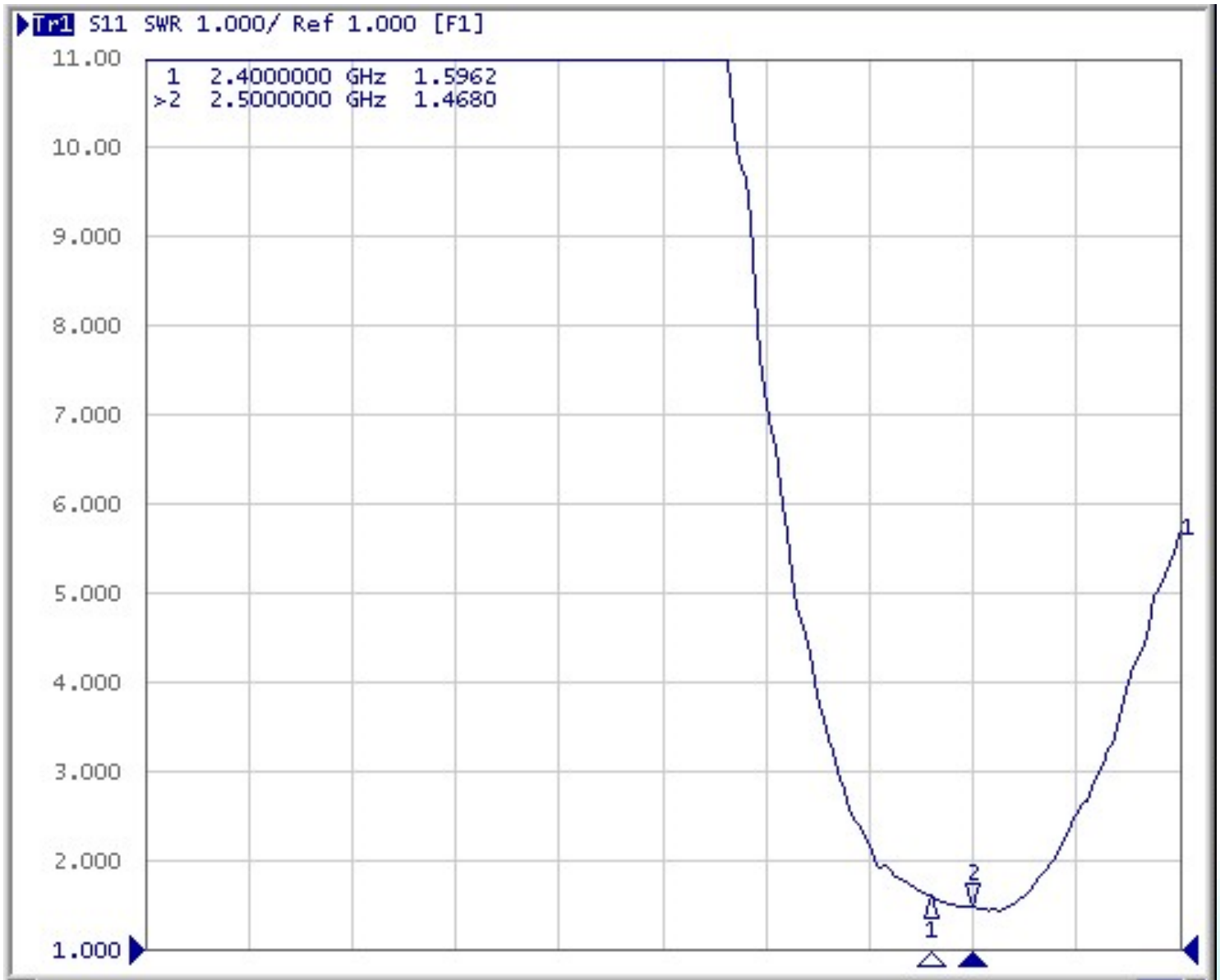
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CHARTS

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VSWR



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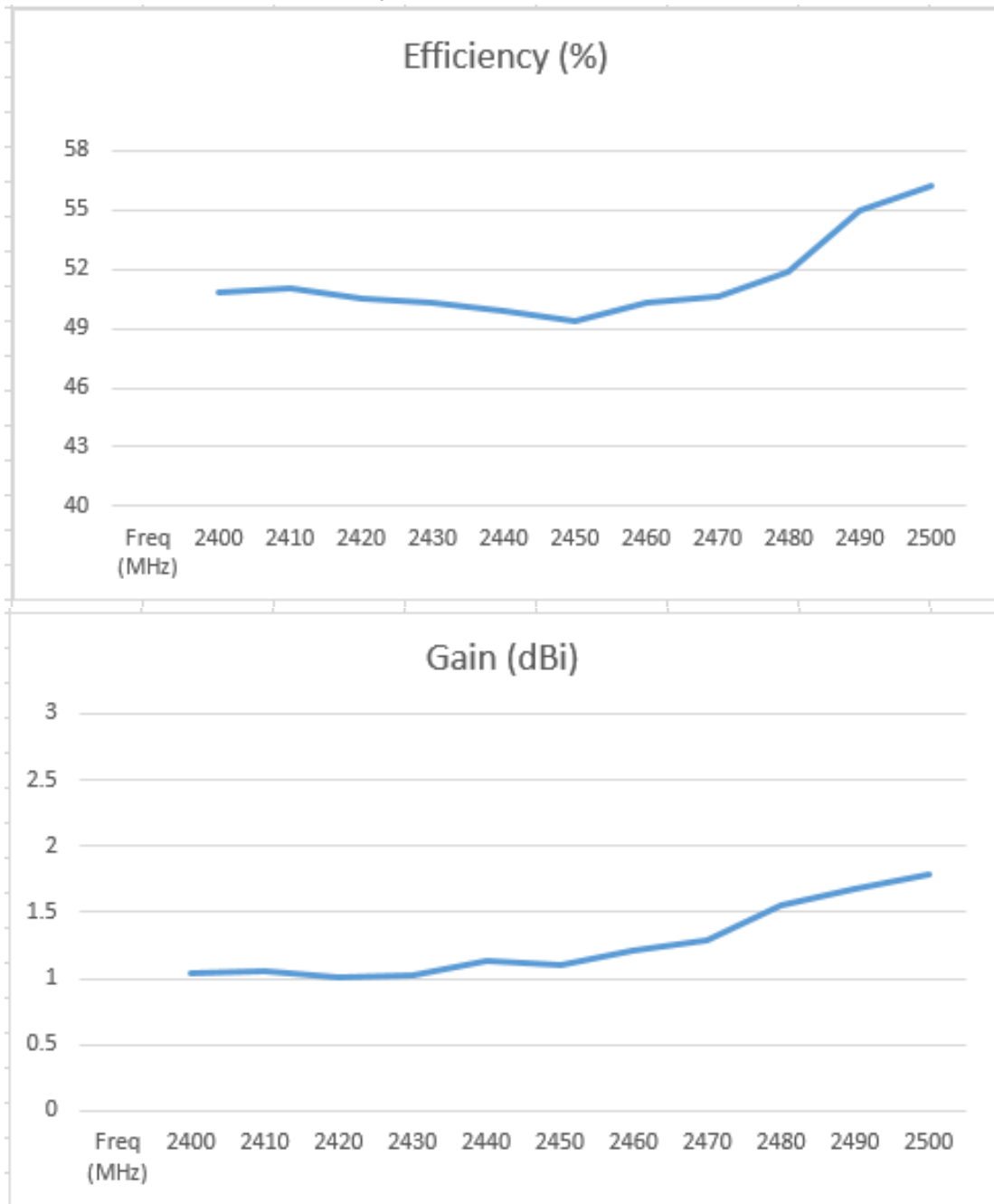
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CHARTS

(* All RF parameters measured on 2mm thick PC plate
Efficiency(%) & Gain (dBi)



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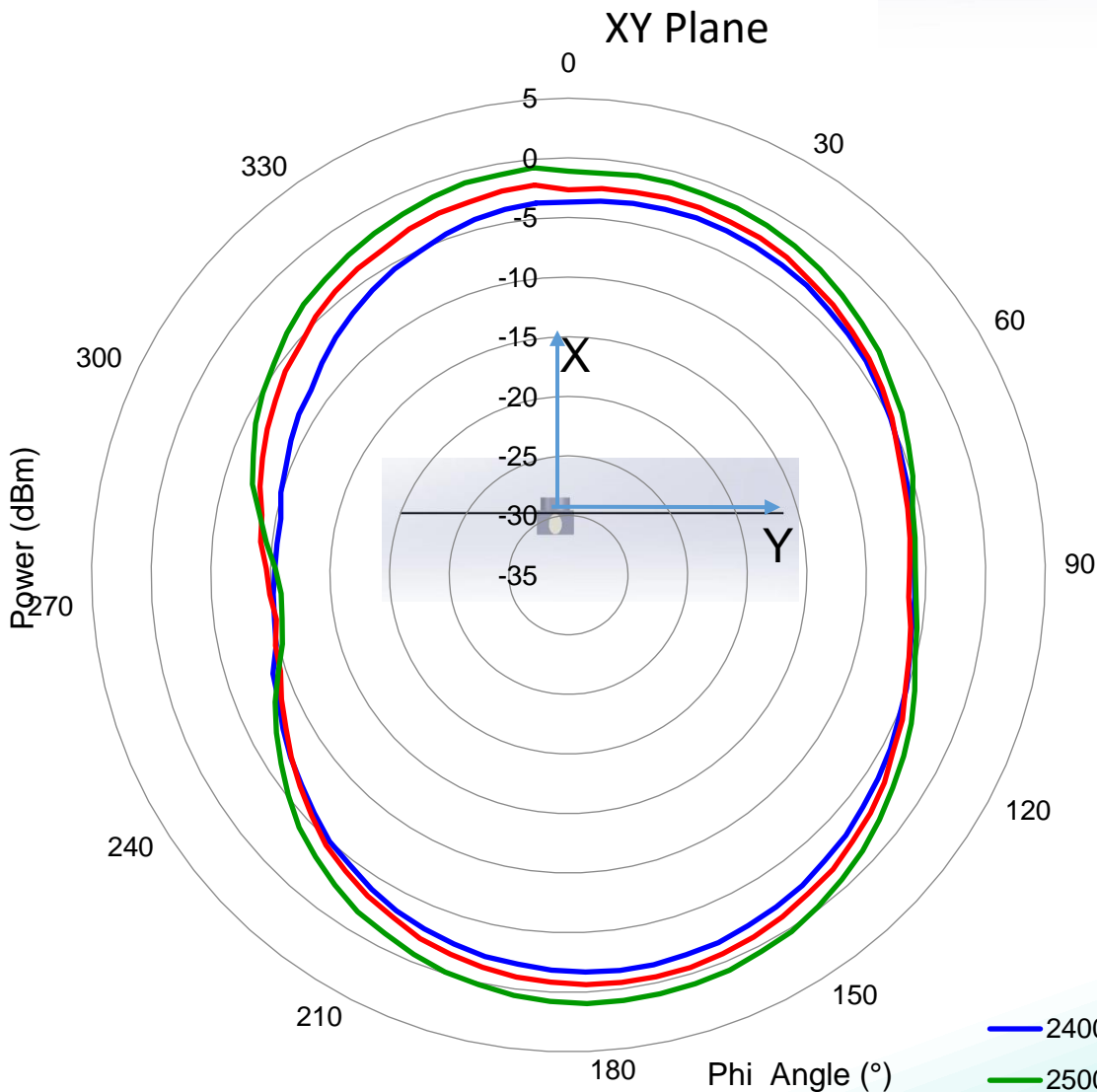
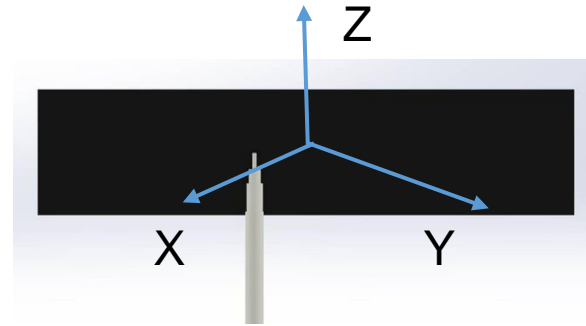
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CHARTS

Typical free space radiation pattern
WIFI 2.4GHz

(*) All RF parameters measured on 2mm thick PC plate



2400MHz
Avg (dBi) = -5.13
Peak (dBi) = -1.55
Avg -3 (deg) = 175

2450MHz
Avg (dBi) = -4.30
Peak (dBi) = -0.51
Avg -3 (deg) = 215

2500MHz
Avg (dBi) = -3.27
Peak (dBi) = 0.98
Avg -3 (deg) = 155

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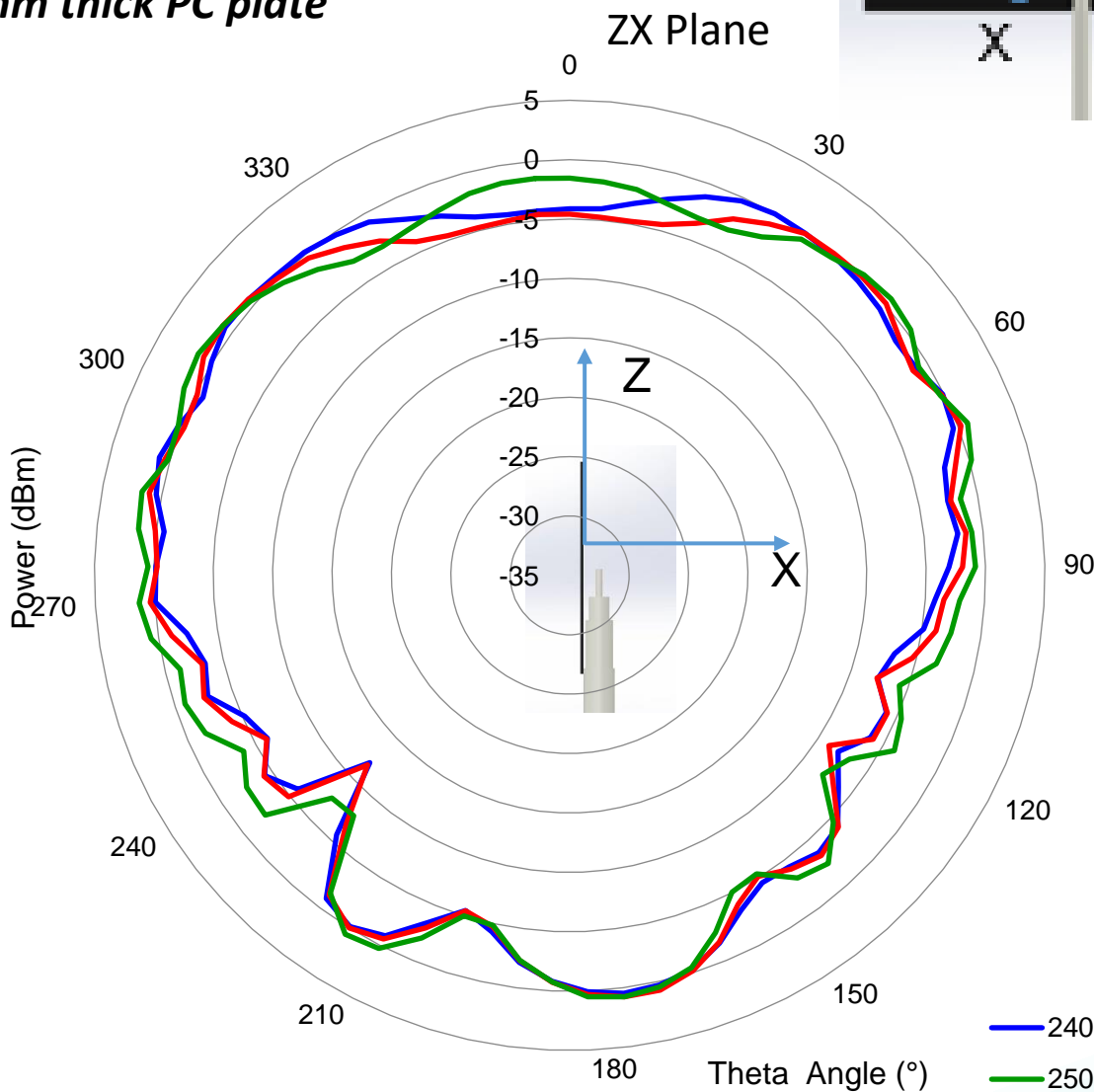
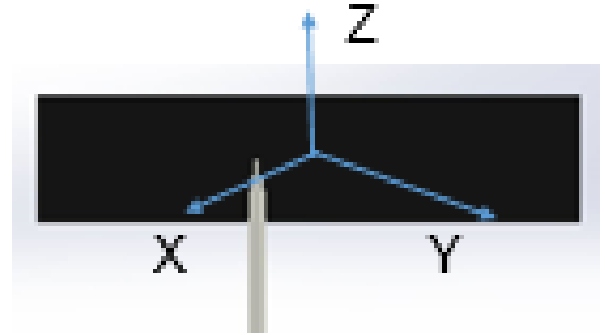
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CHARTS

Typical free space radiation pattern
WIFI 2.4GHz

**(*) All RF parameters measured on
2mm thick PC plate**



2400MHz
Avg (dBi) = -2.49
Peak (dBi) = 0.92
Avg -3 (deg) = 85

2450MHz
Avg (dBi) = -2.57
Peak (dBi) = 1.05
Avg -3 (deg) = 85

2500MHz
Avg (dBi) = -1.77
Peak (dBi) = 1.68
Avg -3 (deg) = 77.5

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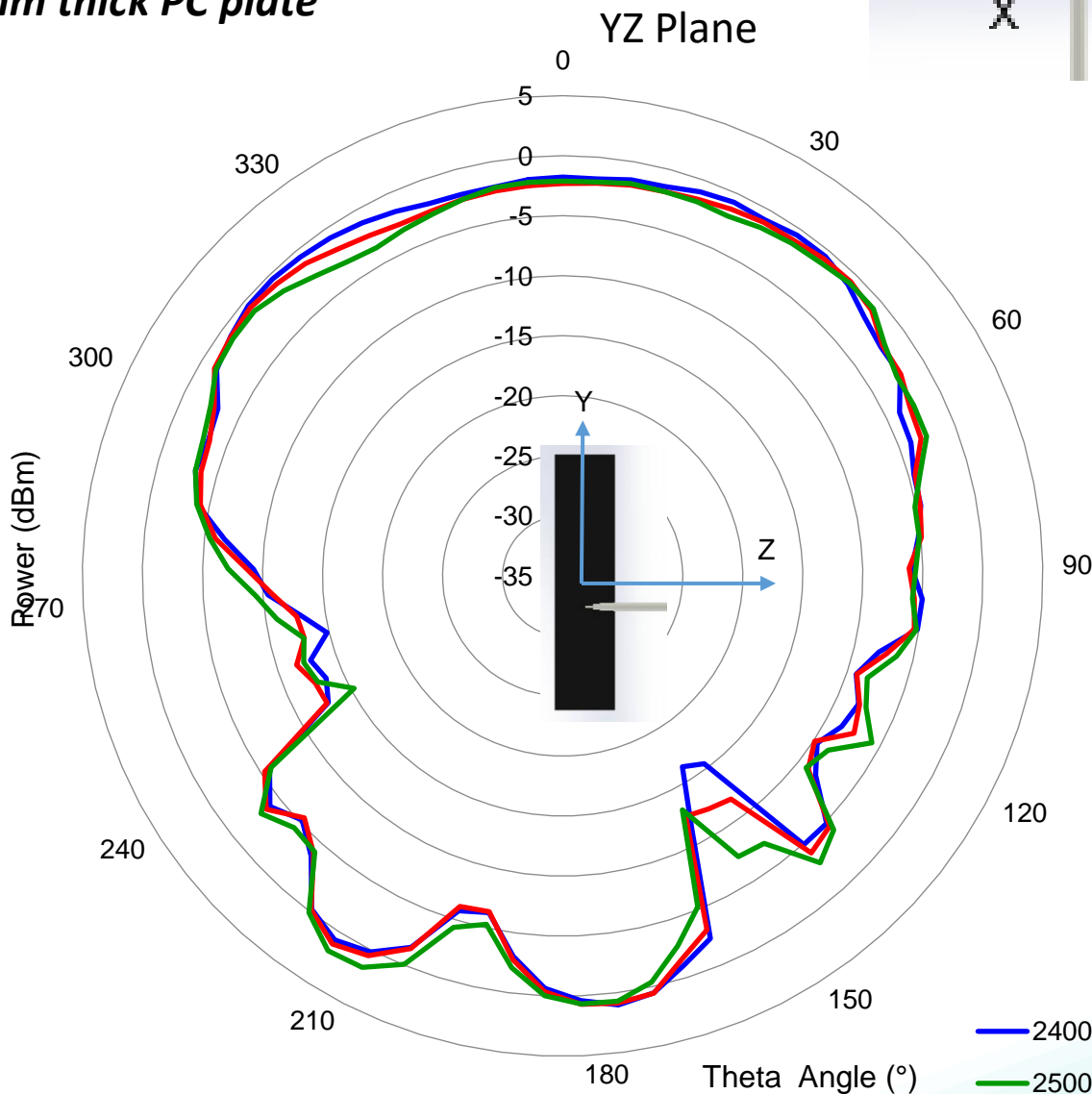
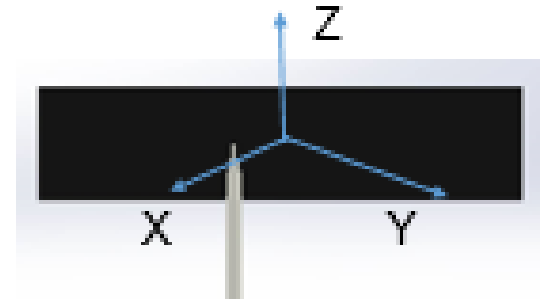
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CHARTS

Typical free space radiation pattern
WIFI 2.4GHz

(* All RF parameters measured on
2mm thick PC plate



2400MHz
Avg (dBi) = -4.38
Peak (dBi) = 1.02
Avg -3 (deg) = 70

2450MHz
Avg (dBi) = -4.30
Peak (dBi) = 1.17
Avg -3 (deg) = 50

2500MHz
Avg (dBi) = -4.08
Peak (dBi) = 1.83
Avg -3 (deg) = 27.5

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PACKAGING

10PCS/PE bag
10 PE bag/foam bag
50 foam bag/ carton box

Total 5000PCS/Carton box



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