

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: 2330

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

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For more information:

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel:1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
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:

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
W3921B0450	450mm 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

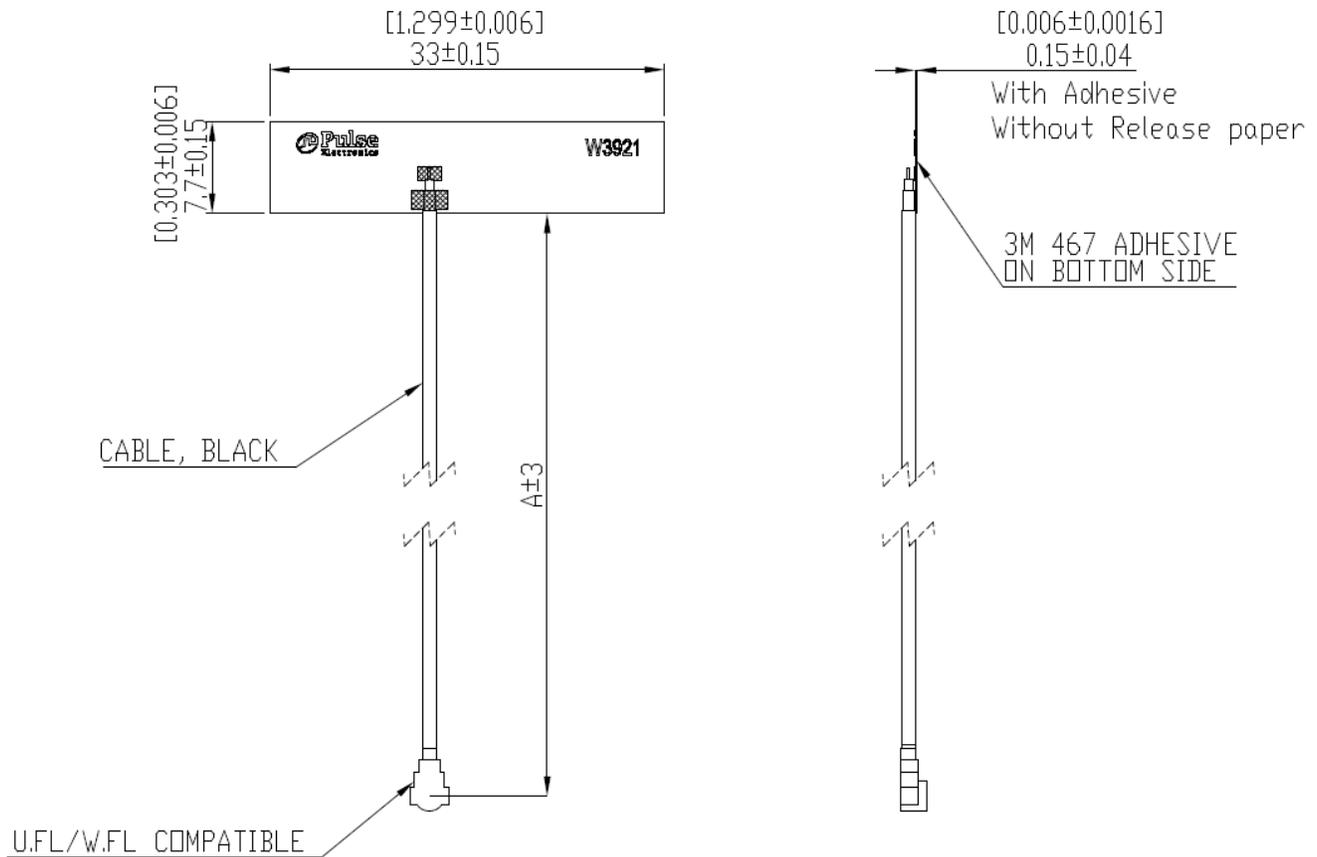
Operating temperature	-40/+85° C
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MECHANICAL DRAWING



ITEM	PROJECTA LENGTH	A LENGTH MM	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
8	W3921B0450	450	055-2248.008	1.13mm	U.FL COMPATIBLE

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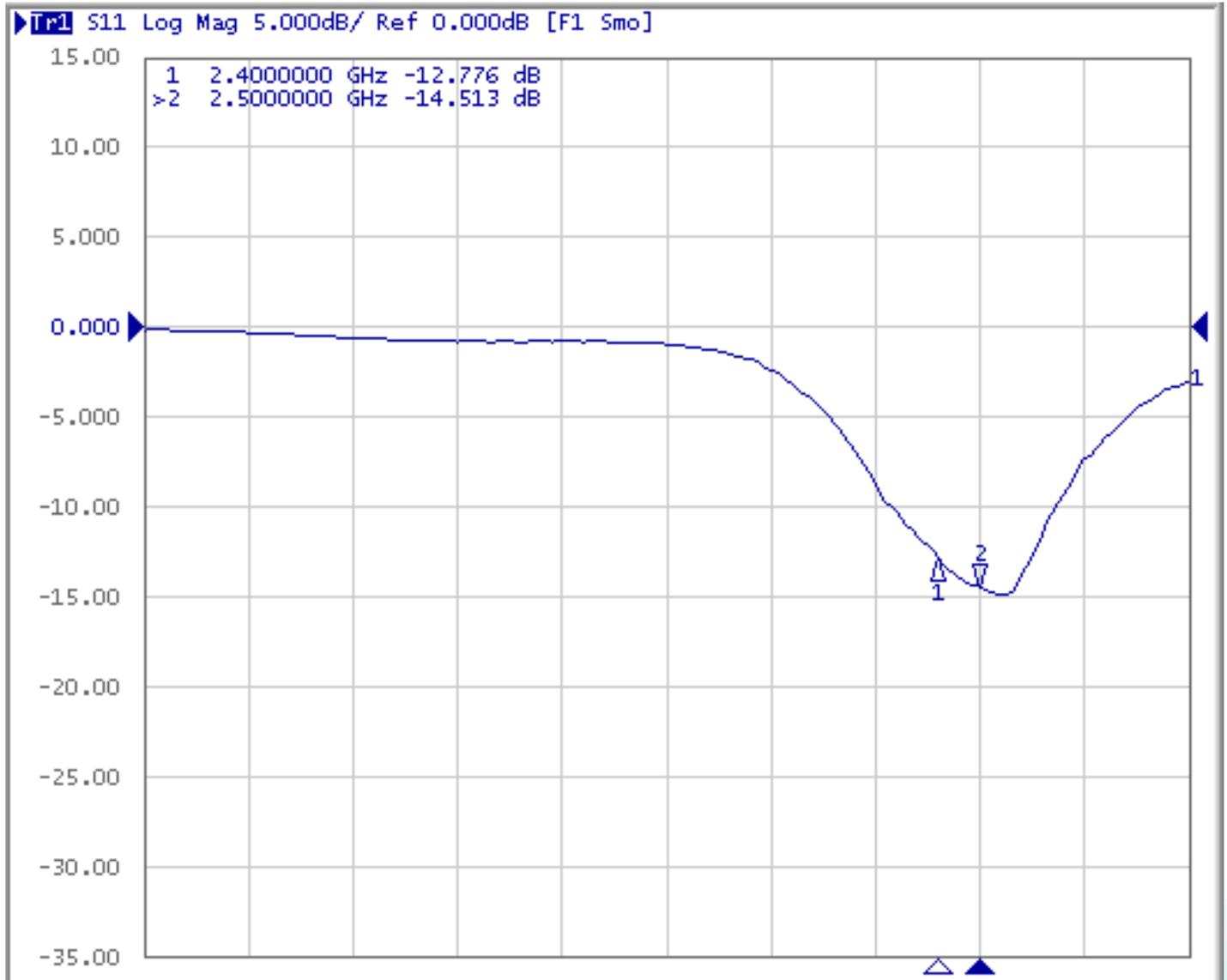
Series: Internal Antenna

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CHARTS

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

Return Loss



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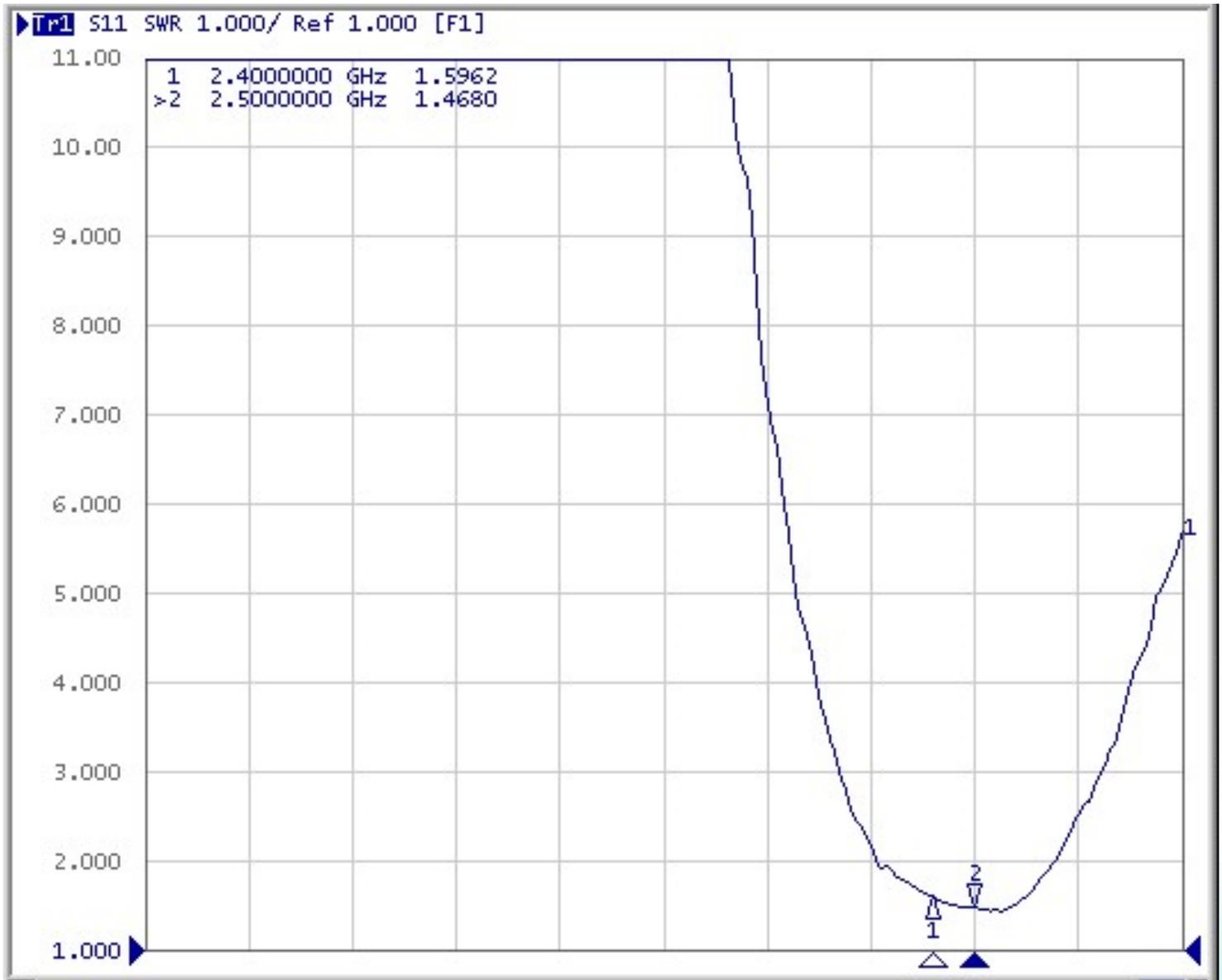
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VSWR



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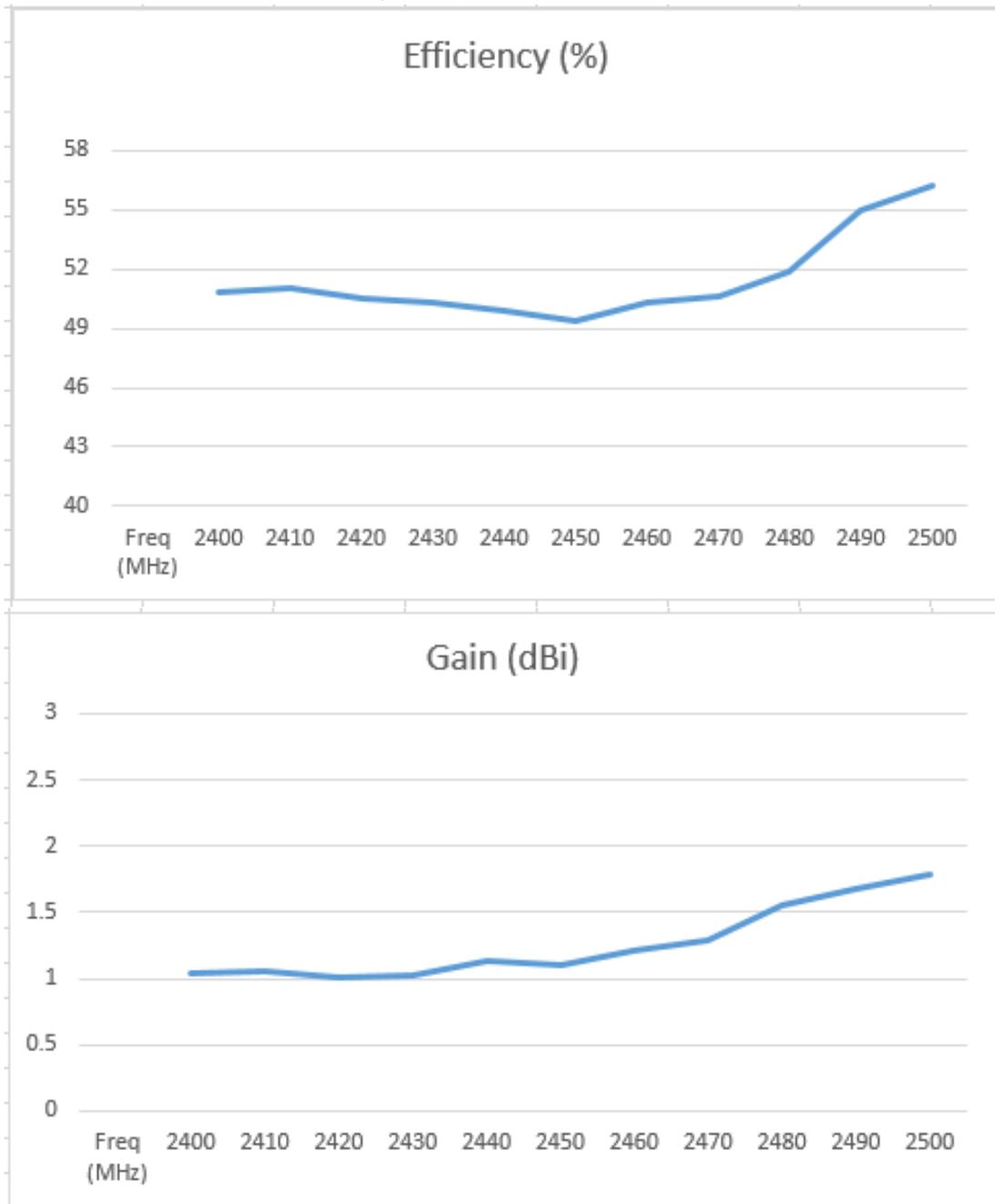
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CHARTS

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



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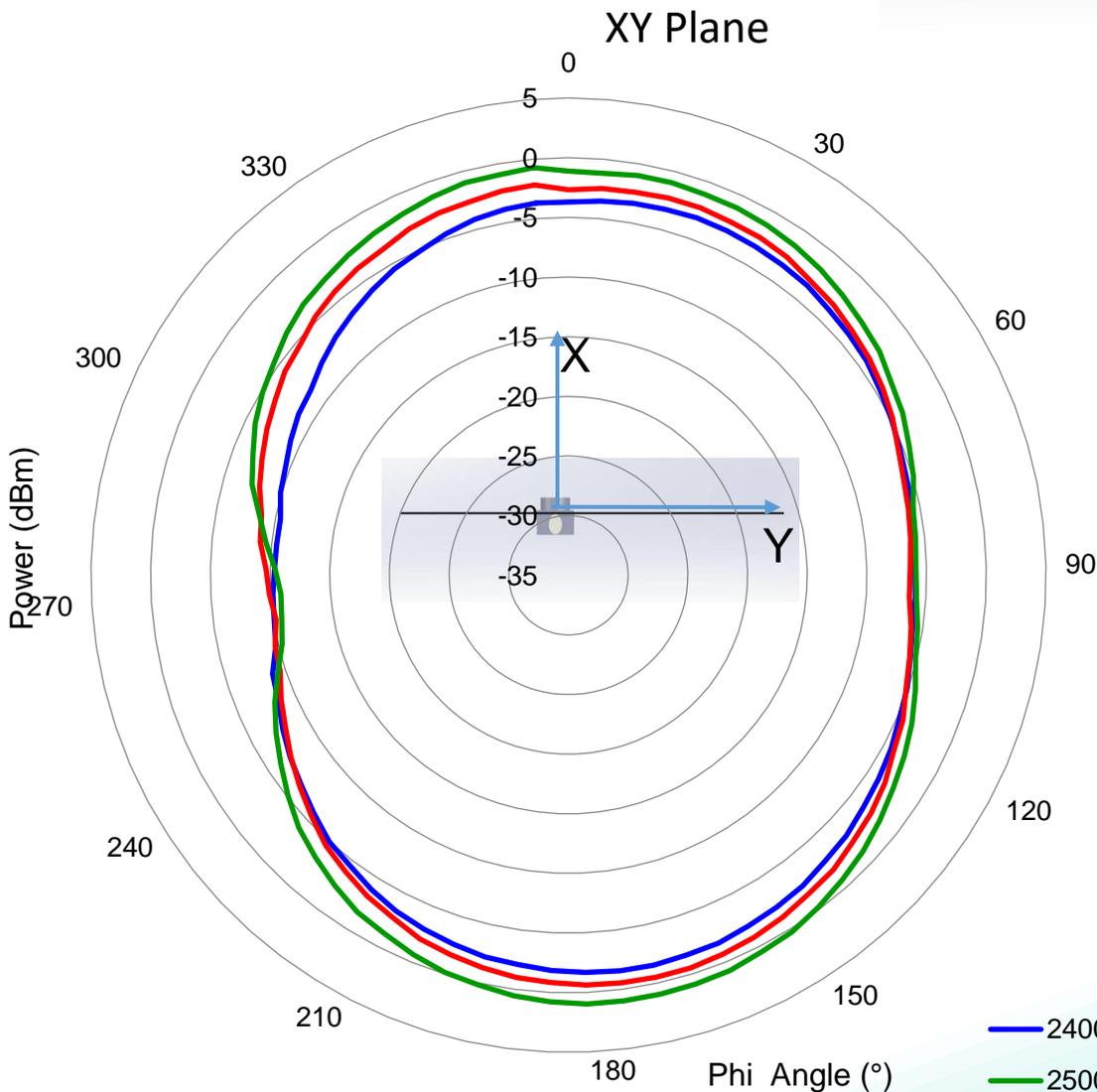
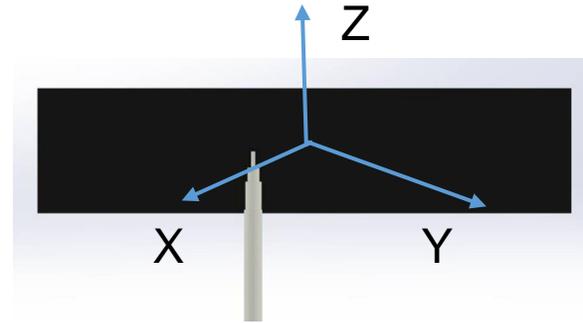
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CHARTS

Typical free space radiation pattern
WIFI 2.4GHz

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



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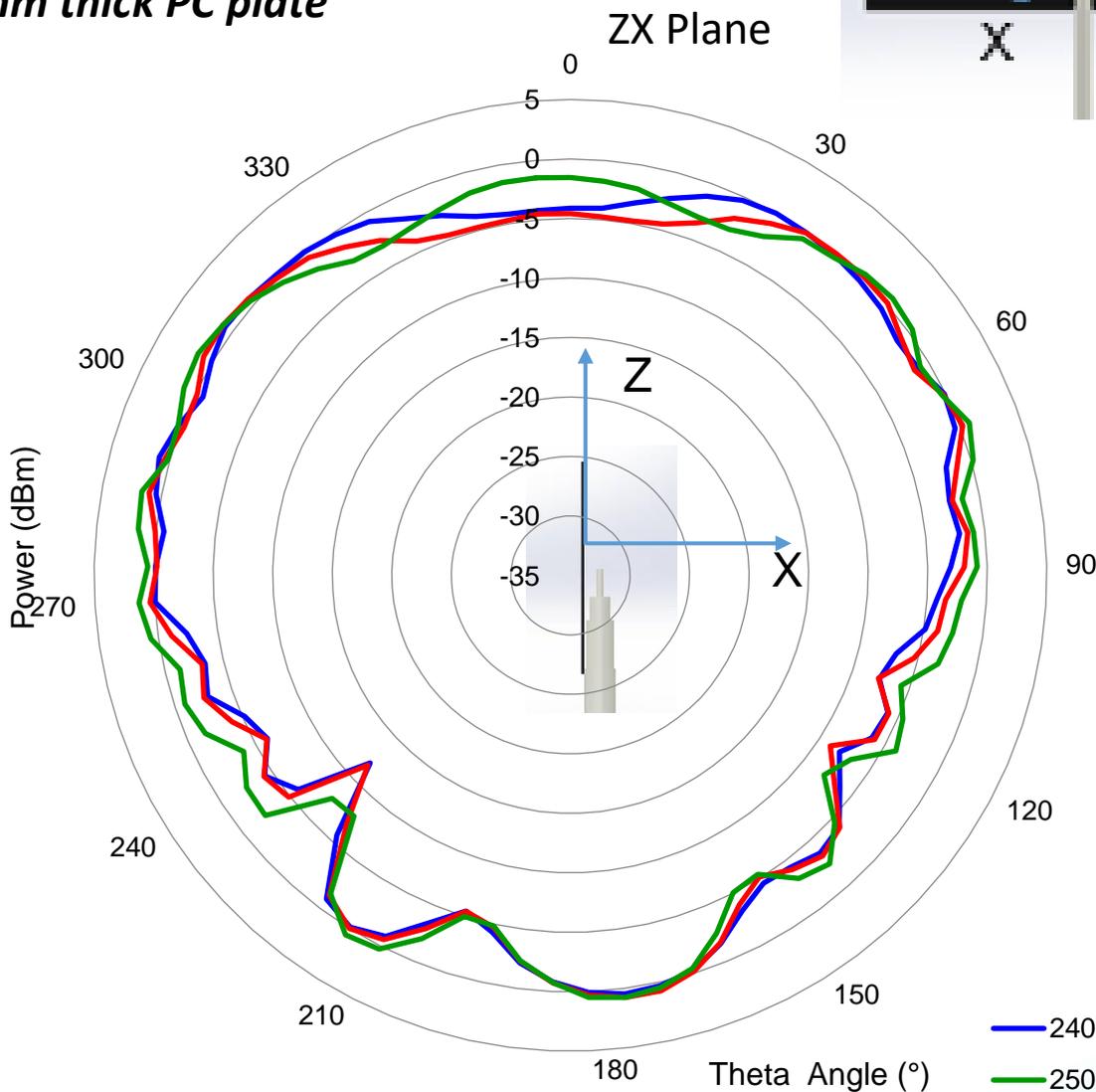
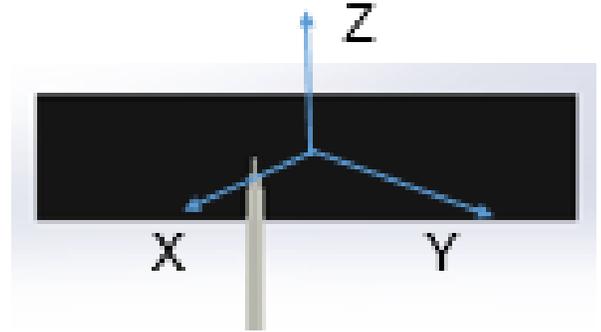
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CHARTS

Typical free space radiation pattern
WIFI 2.4GHz

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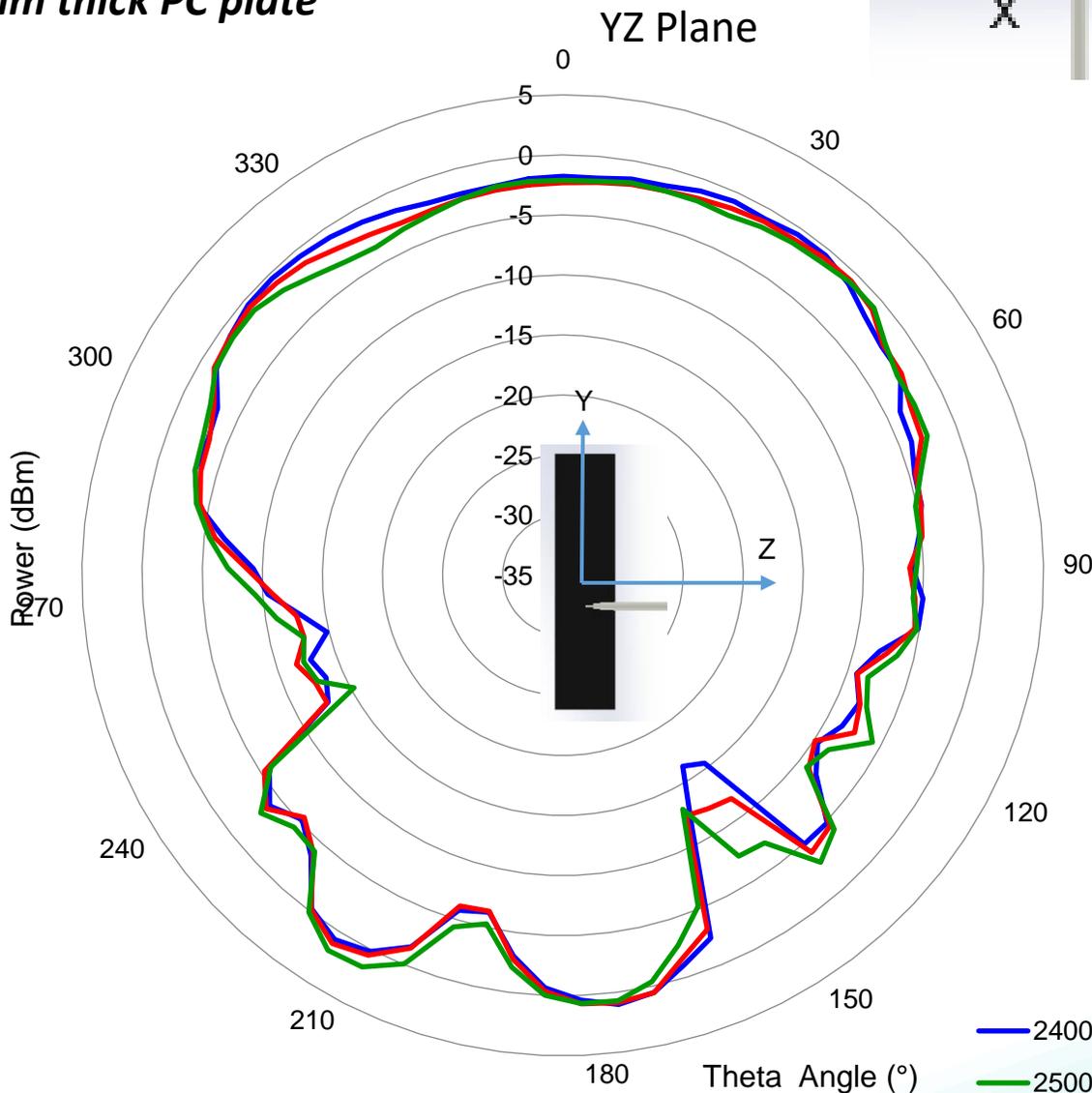
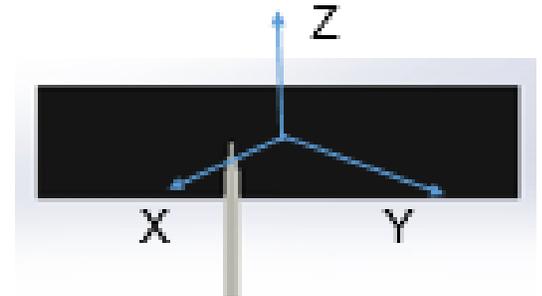
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PACKAGING

10PCS/PE bag

10 PE bag/foam bag

50 foam bag/ carton box

Total 5000PCS/Carton box



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