



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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: 1725

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

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Description: FPC 2.4G antenna

Series: Internal Antenna

PART NUMBER: W3921XXXXX

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

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Description: FPC 2.4G antenna

Series: Internal Antenna

PART NUMBER: W3921XXXXX

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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Description: FPC 2.4G antenna

Series: Internal Antenna

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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)	0.1[0.004] mm[inch]
Weight	about 0.37 g
Cable type	OD 1.13mm/0.81mm coax cable
Cable length	Optional mm[inch]
Connector	U.FL/W.FL compatible

ENVIRONMENTAL SPECIFICATIONS

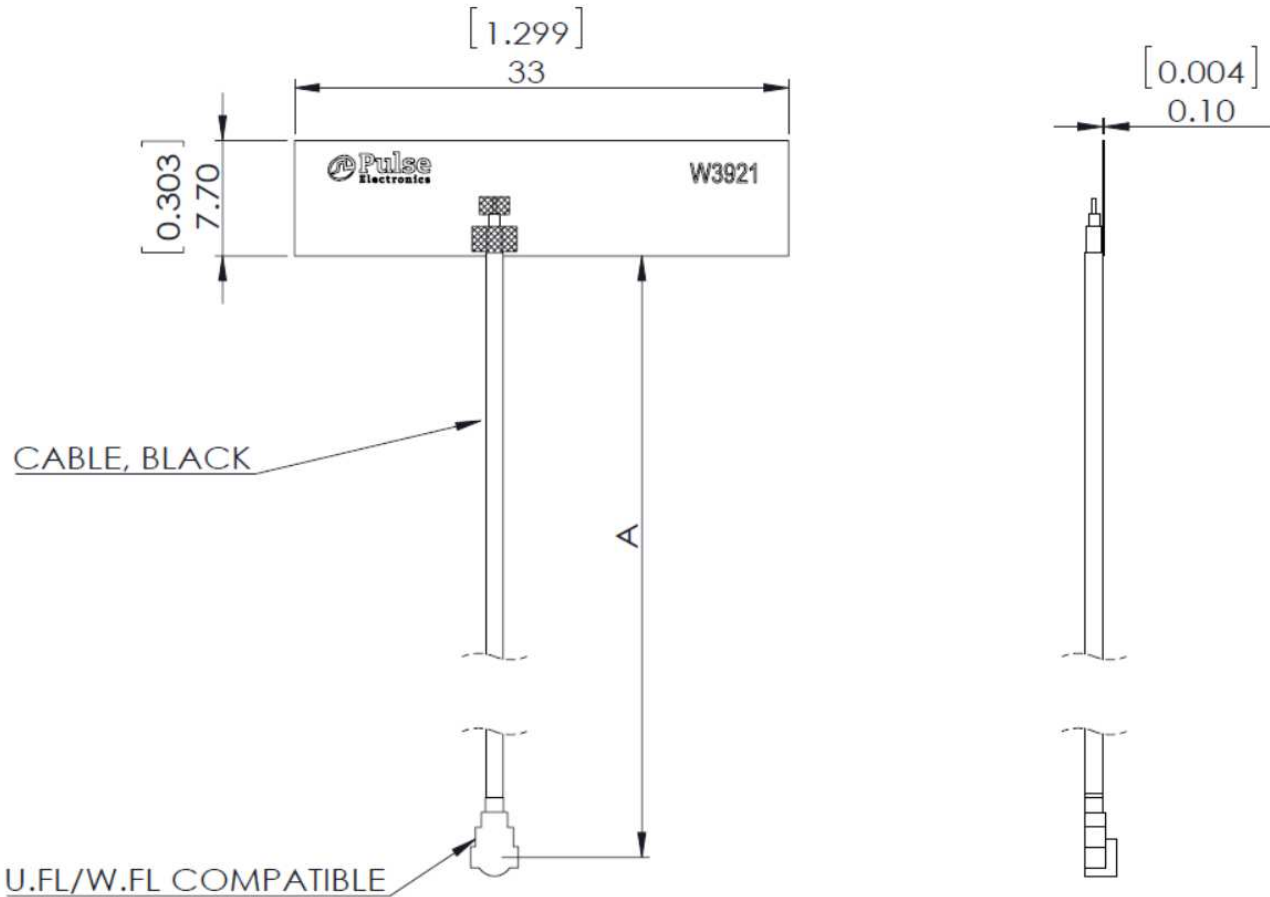
Operating temperature	-40/+85° C
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Description: FPC 2.4G antenna

Series: Internal Antenna

PART NUMBER: W3921XXXXX

MECHANICAL DRAWING



ITEM	PROJECT NAME	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

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Description: FPC 2.4G antenna

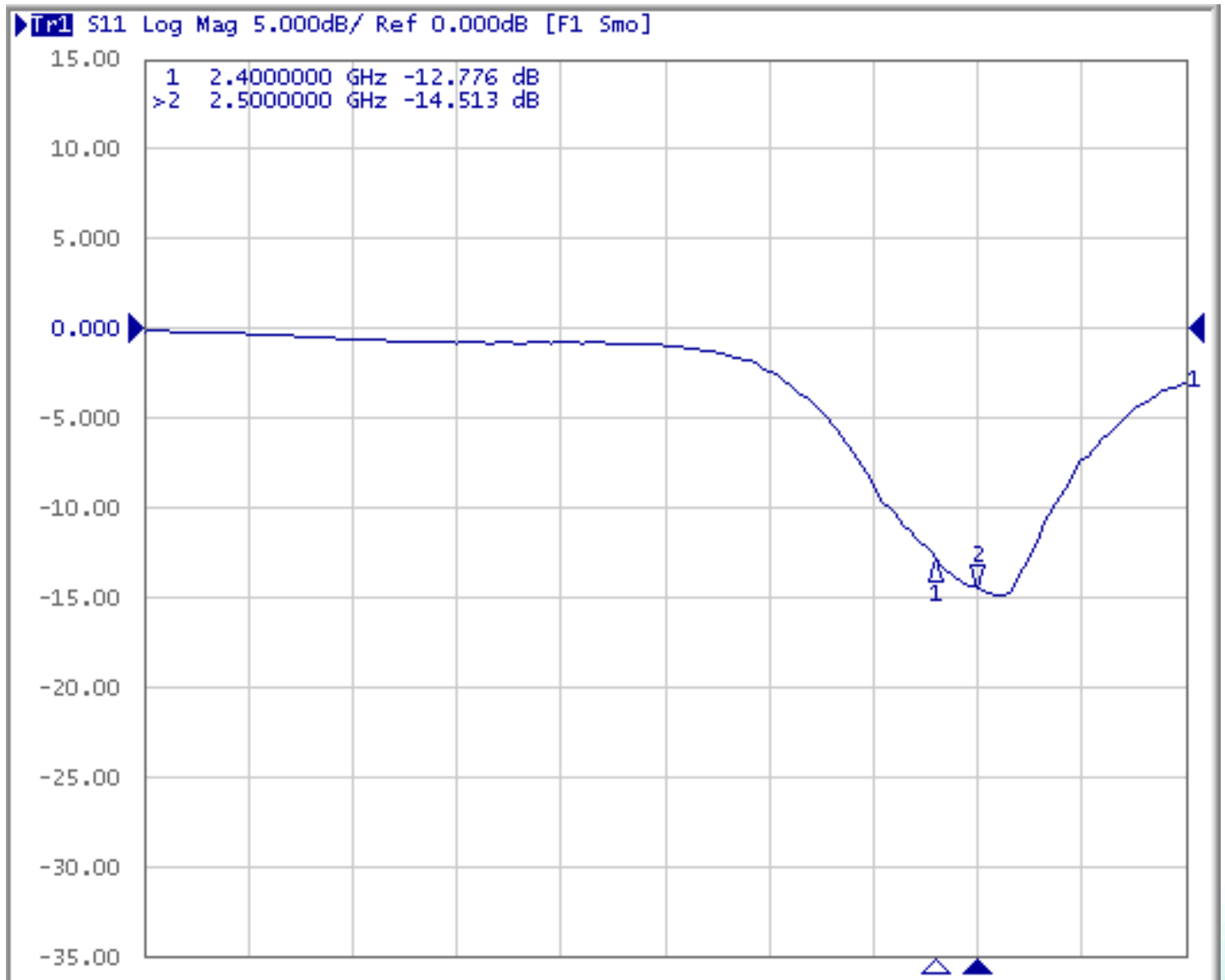
Series: Internal Antenna

PART NUMBER: W3921XXXXX

CHARTS

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

Return Loss



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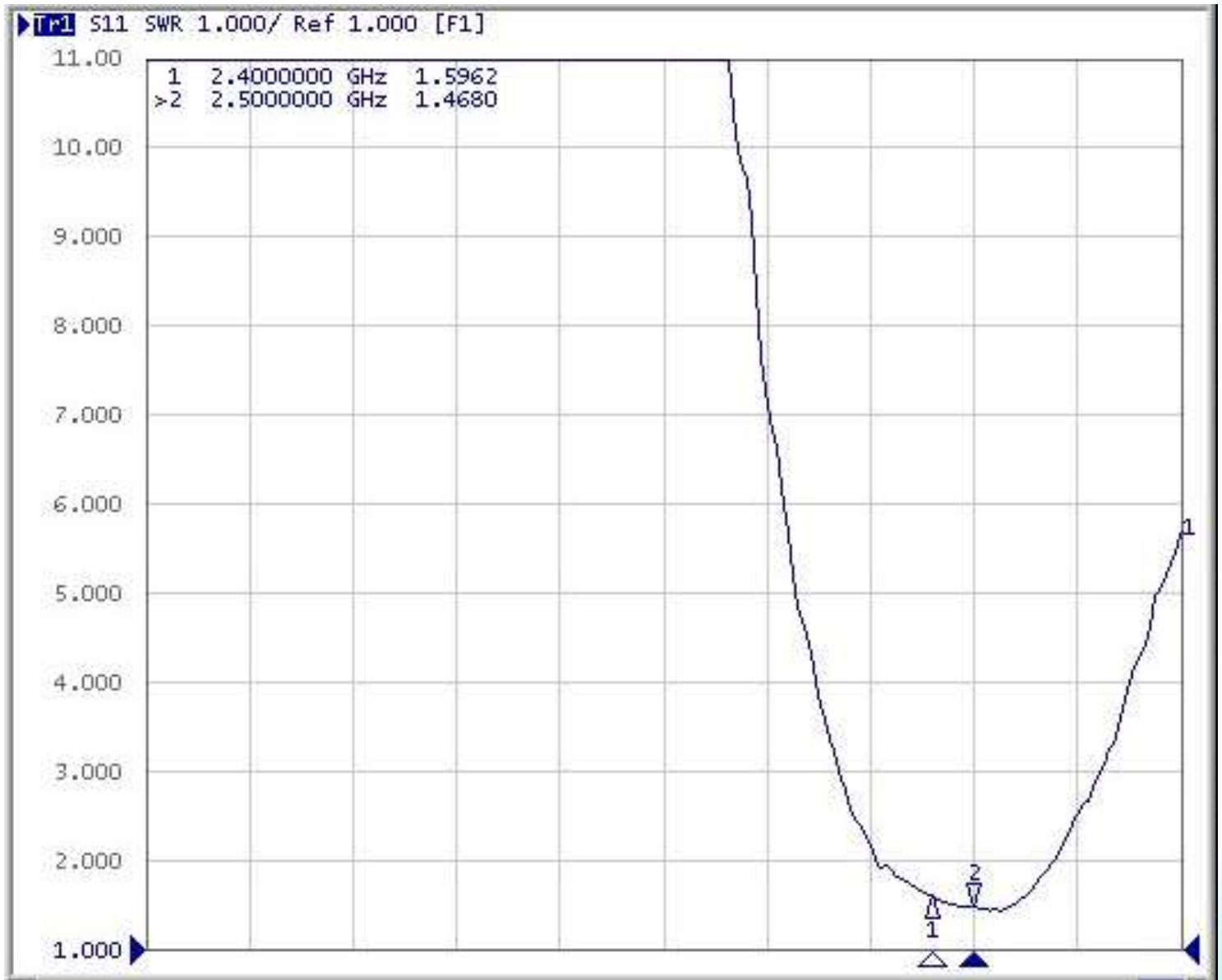
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CHARTS

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

VSWR



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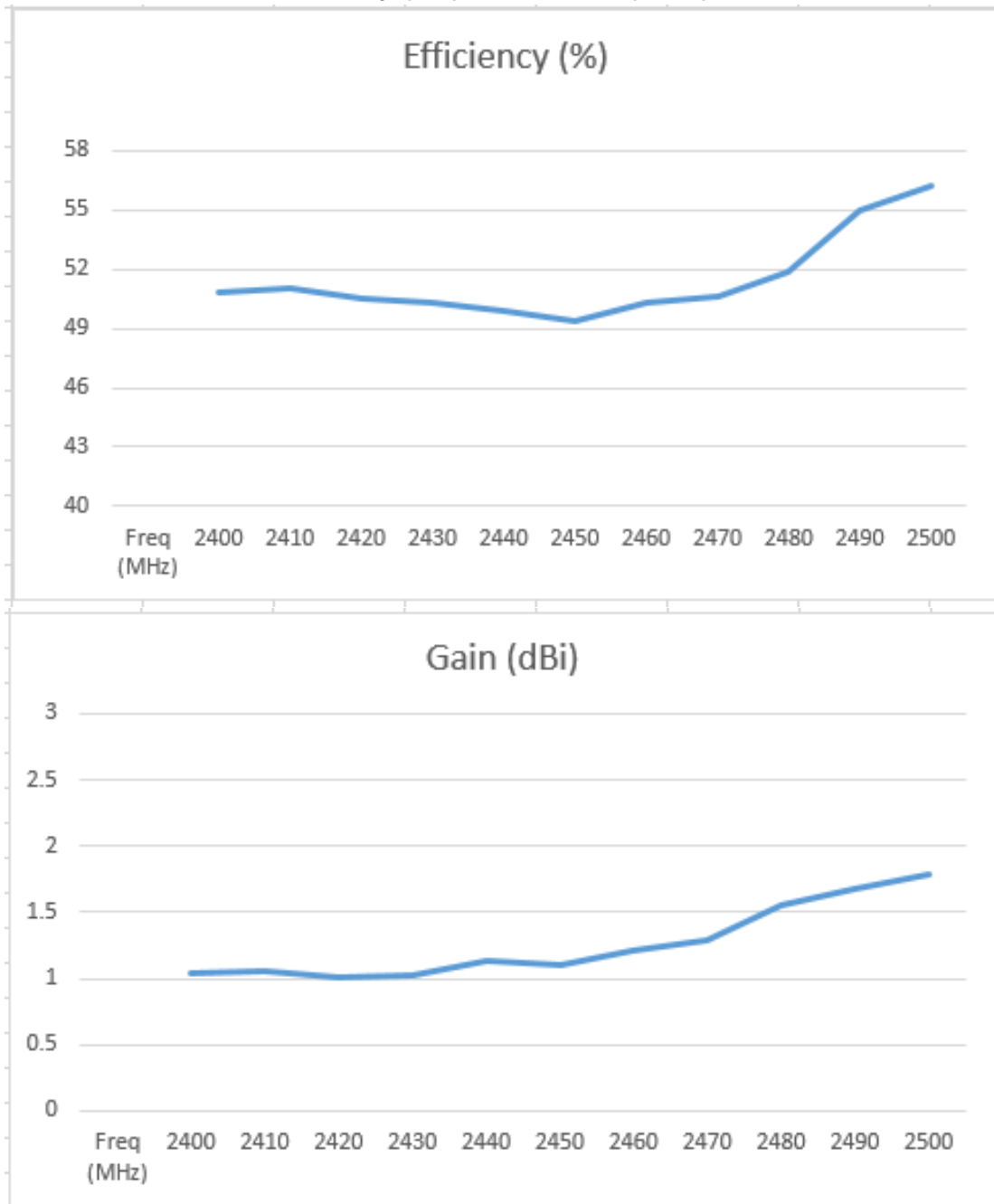
Description: FPC 2.4G antenna

Series: Internal Antenna

PART NUMBER: W3921XXXXX

CHARTS

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



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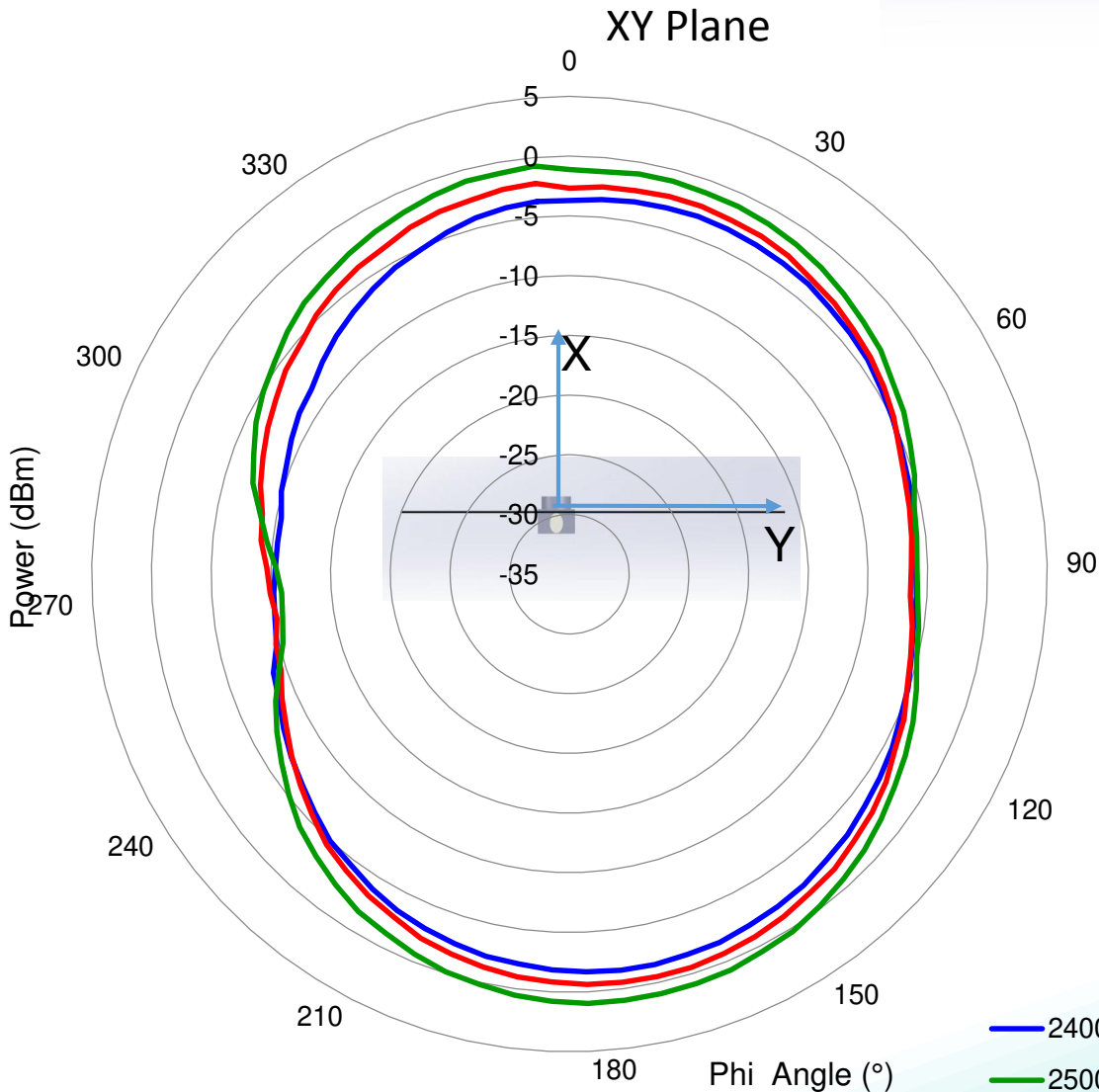
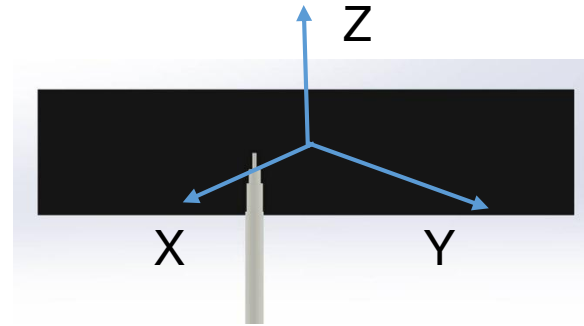
Series: Internal Antenna

PART NUMBER: W3921XXXXX

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

— 2400MHz — 2450MHz
— 2500MHz

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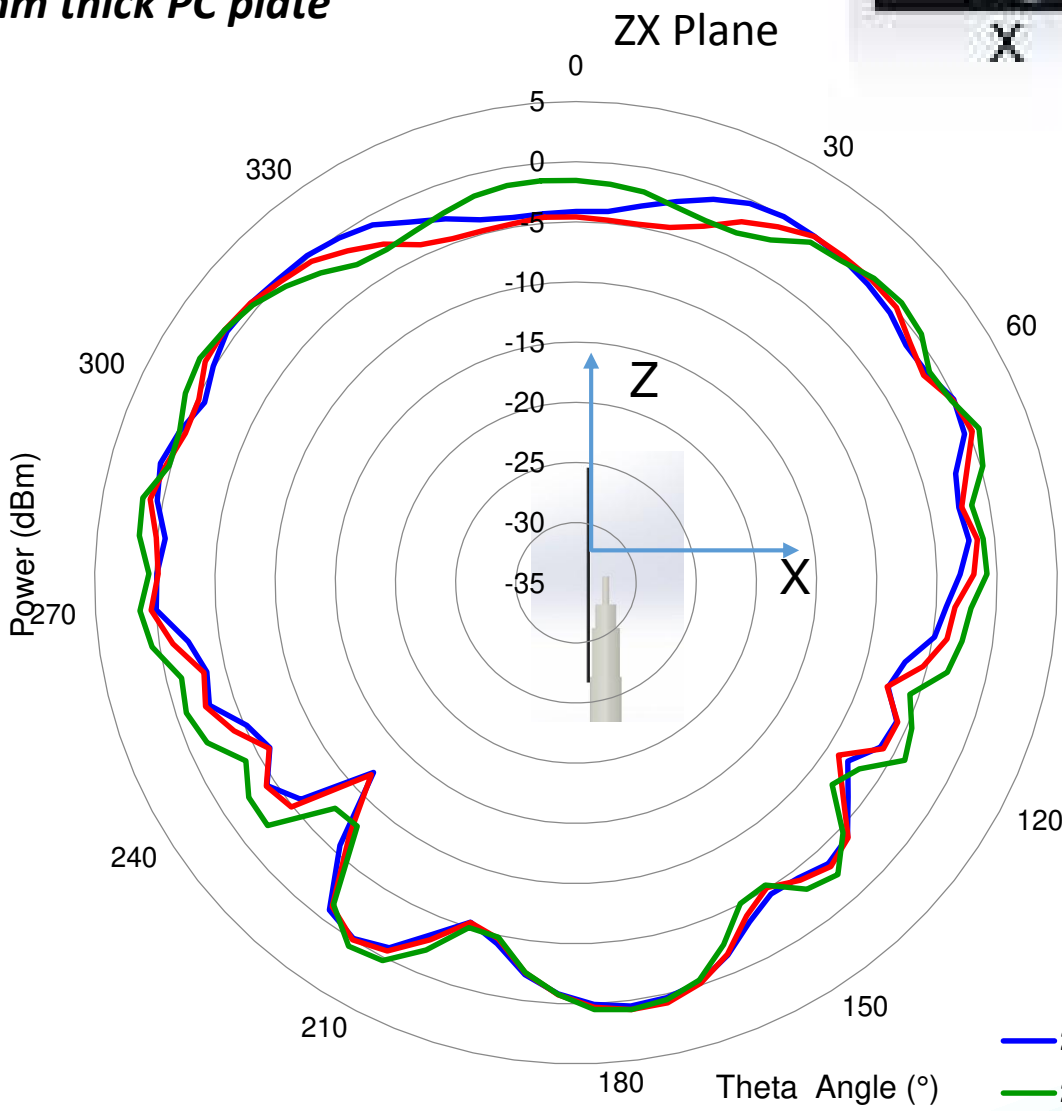
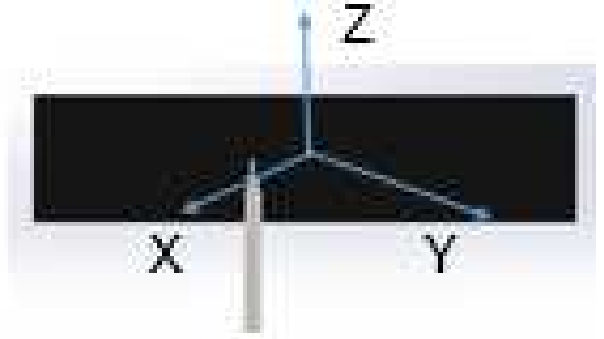
Series: Internal Antenna

PART NUMBER: W3921XXXXX

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

— 2400MHz — 2450MHz
— 2500MHz

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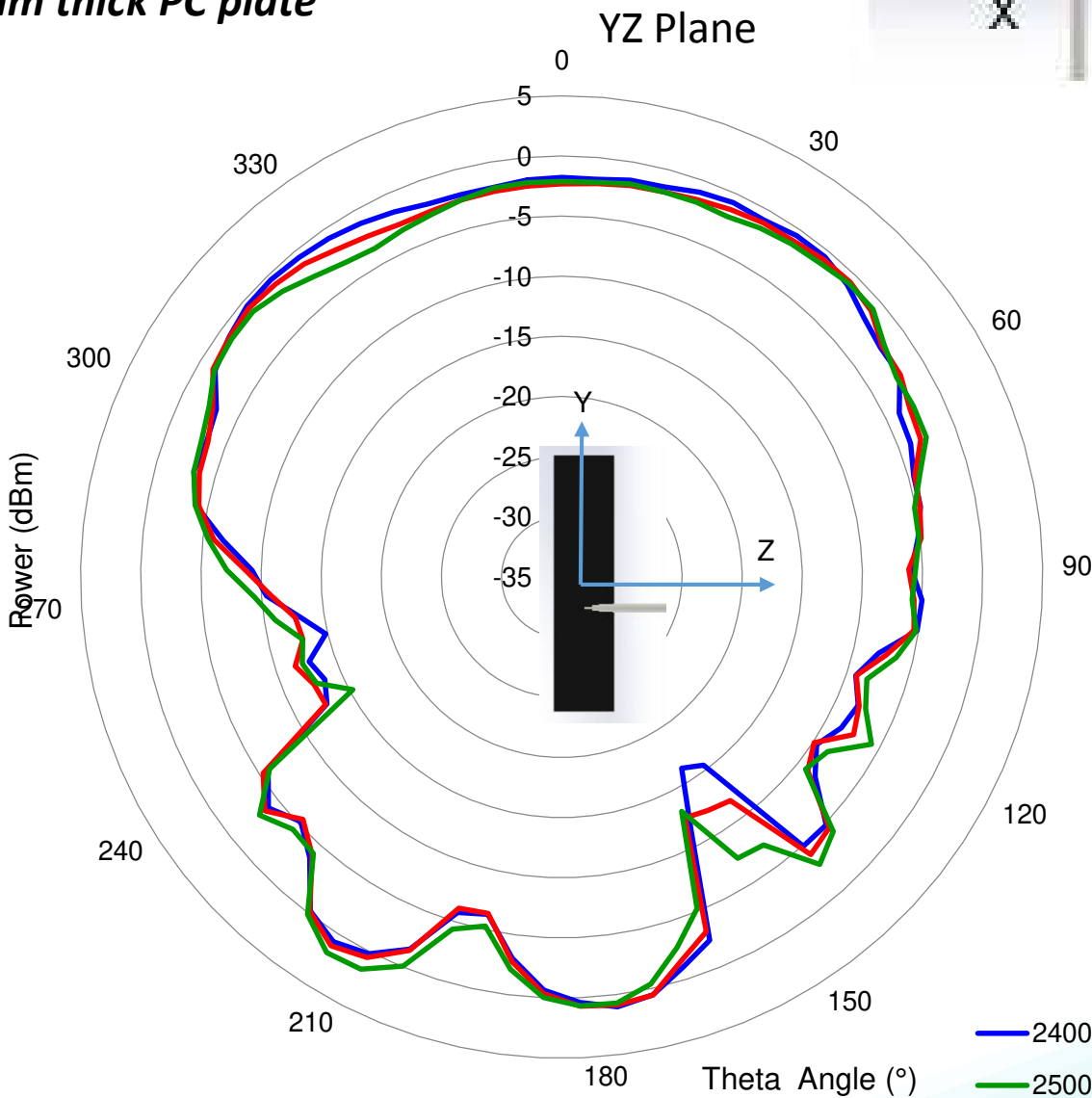
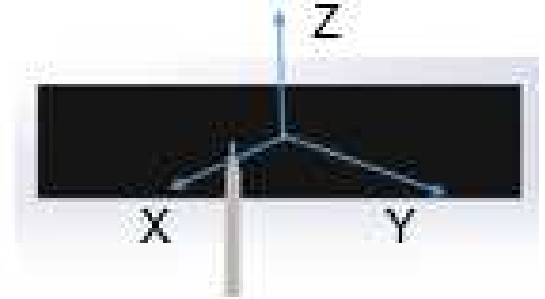
Series: Internal Antenna

PART NUMBER: W3921XXXXX

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

— 2400MHz — 2450MHz
— 2500MHz

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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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