

Description: 2.4/5GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3917XXXX



Features:

- 2400-2500 / 4900-5925 MHz
- Size 42.6 X 8.6 X 0.15 mm
- Efficiency 60/70%
- VSWR < 2
- Nominal impedance 50 Ω
- Cable and connector can be customized

Applications:

- WiFi, Bluetooth, BLE, ZigBee
- DSRC
- ISM band radios
- IoT, M2M

All dimensions are in mm / inches

Issue: 1714

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Pulse (Suzhou) Wireless Products Co, Inc.
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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:

W3917B0050	50mm 1.13mm OD cable	U.FL compatible connector
W3917B0100	100mm 1.13mm OD cable	U.FL compatible connector

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Description: 2.4/5GHz FPC antenna**Series: Internal Antenna****PART NUMBER: W3917XXXX****ELECTRICAL SPECIFICATIONS**

Frequency	2400-2500, 4900-5925MHz
Nominal Impedance	50Ω
VSWR	< 2
Peak Gain	2dBi+/- 1dB @ 2.4GHz 4dBi+/-1dB@5GHz
Efficiency(%)	60 / 70 %
Radiation Pattern	Omni
Polarization:	Linear
Power withstanding	2 W
Connector	U.FL compatible connector
Cable type	1.13mm coaxial cable black
Cable length	Optional

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

Description: 2.4/5GHz FPC antenna**Series: Internal Antenna****PART NUMBER: W3917XXXX****MECHANICAL SPECIFICATIONS**

Radiator material	FPC
Color	Black
Adhesive	3M467
Thickness(with adhesive, no liner)	0.15 mm
Weight	0.32 g
FPC size(L X W X T)	42.6 X 8.6 X 0.15 mm

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C
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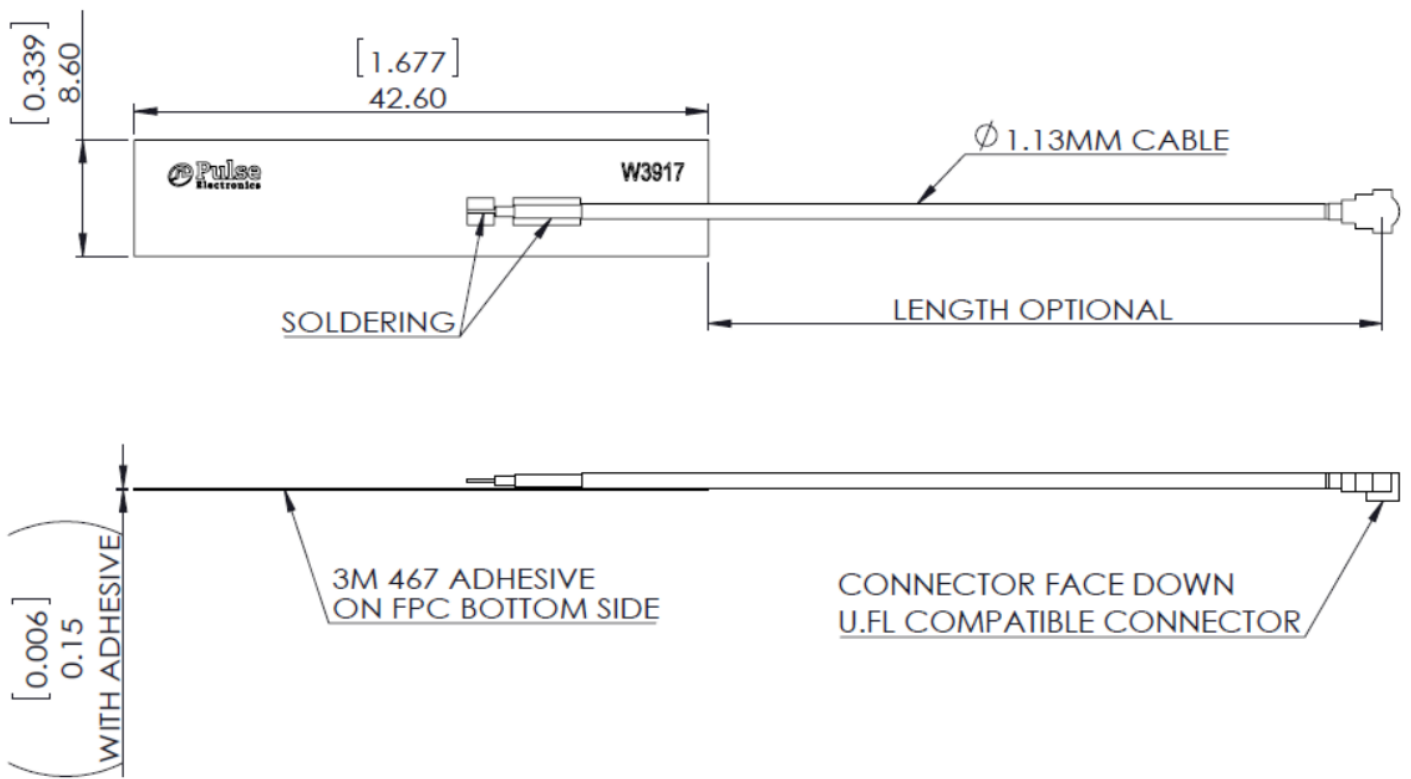
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MECHANICAL DRAWING



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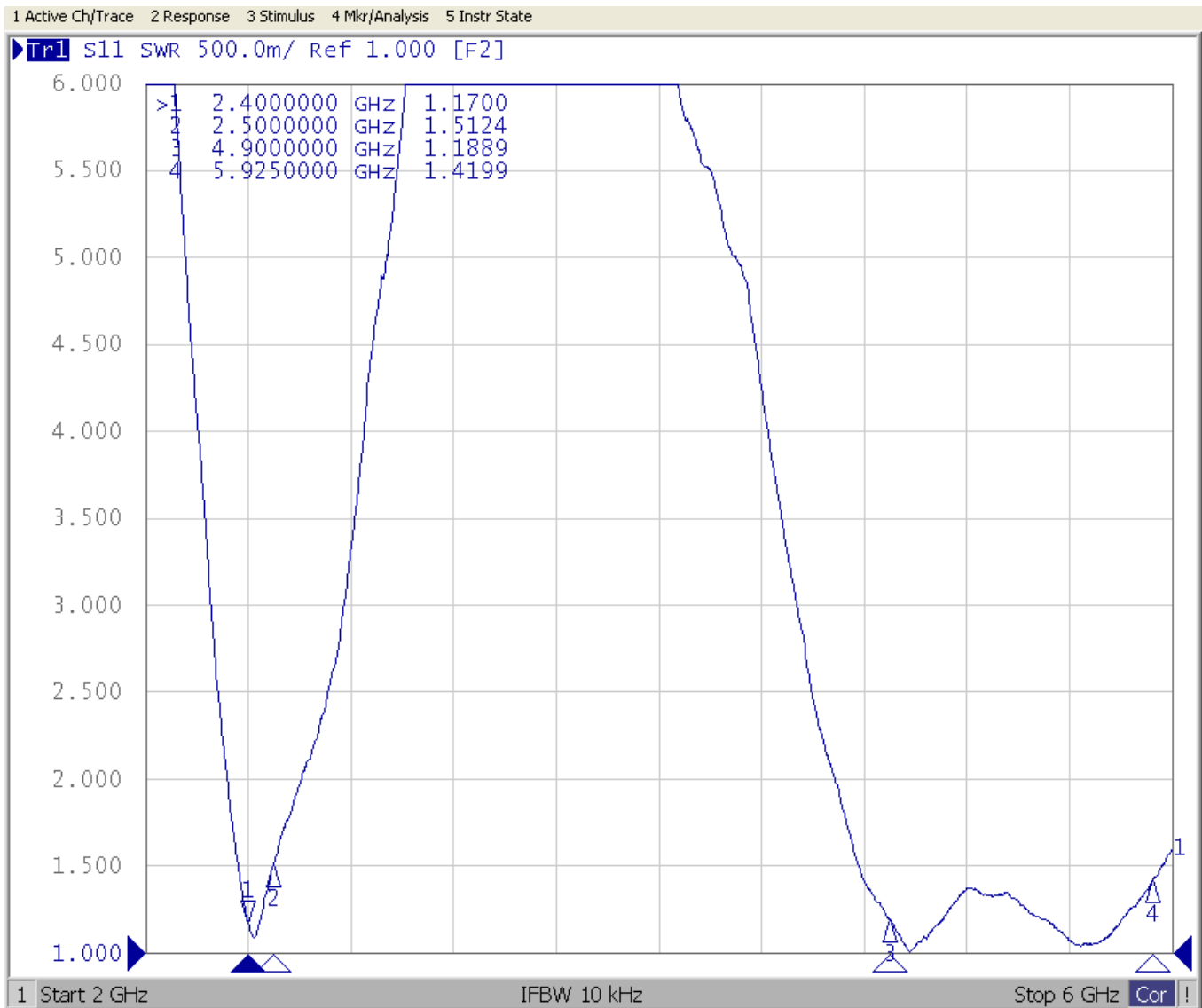
Series: Internal Antenna

PART NUMBER: W3917XXXX

CHARTS

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

Return Loss



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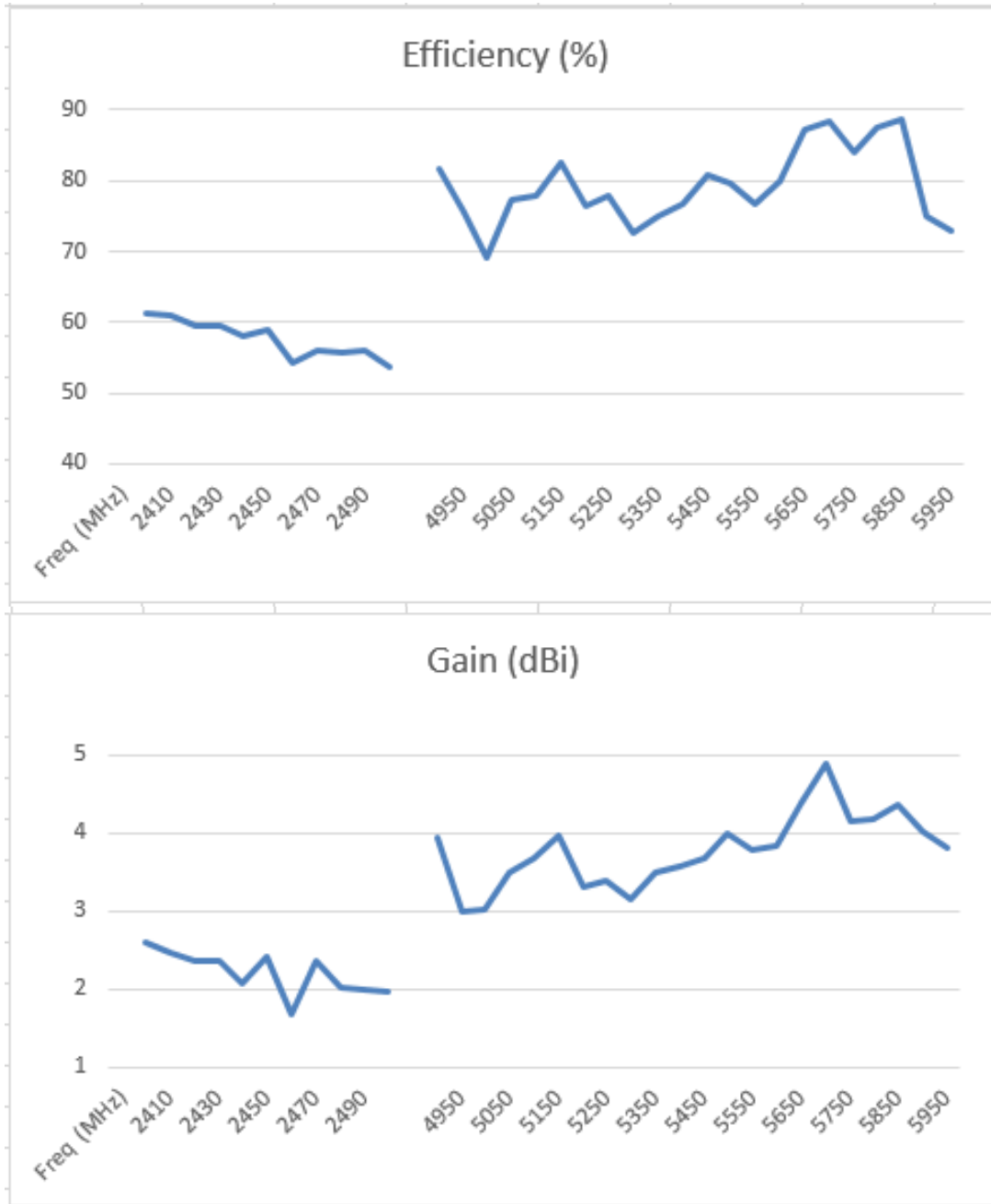
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CHARTS

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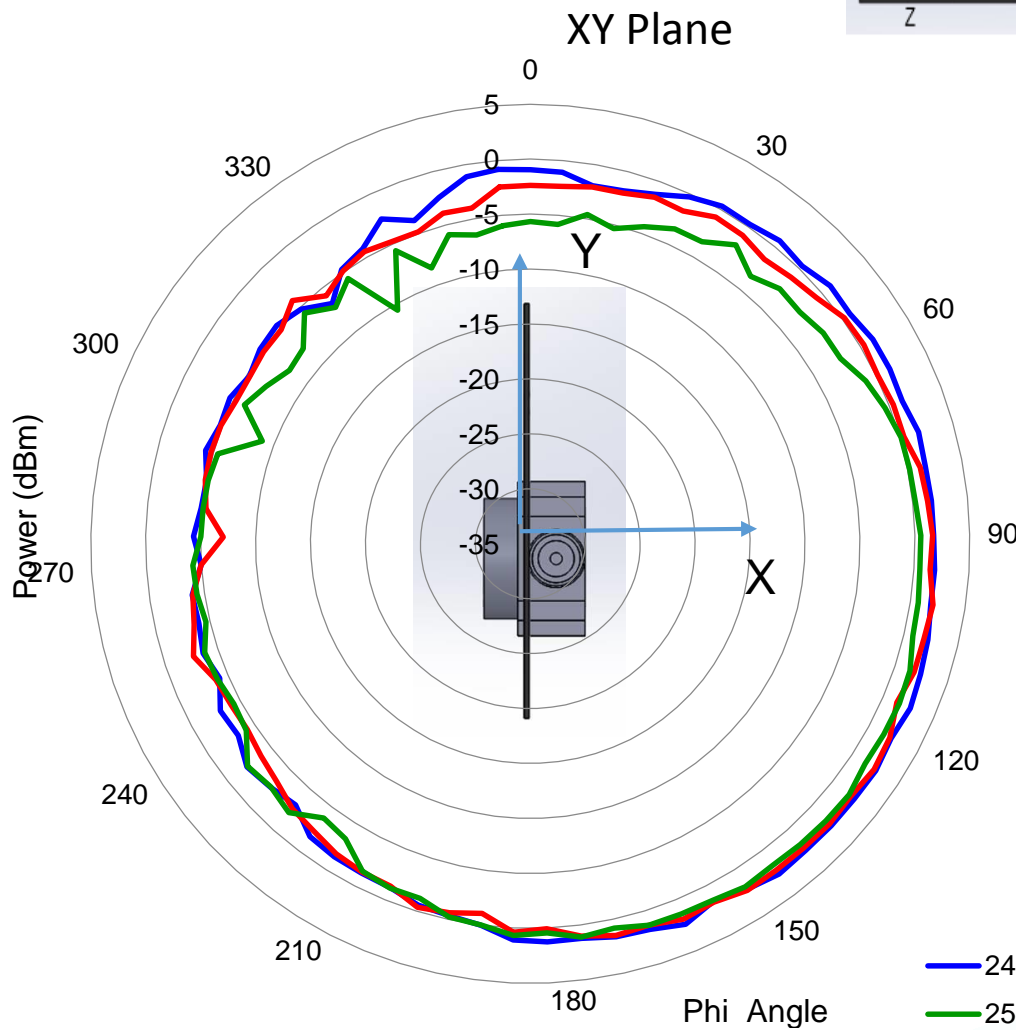
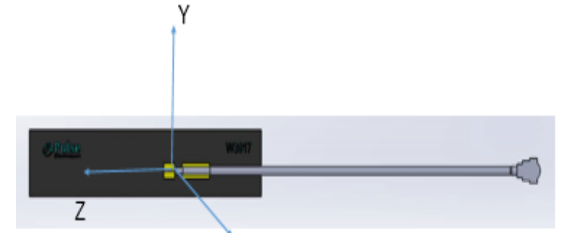
PART NUMBER: W3917XXXX

CHARTS

Typical free space radiation pattern

WIFI 2.4GHz

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



2400MHz	Avg (dBi) = -0.94
	Peak (dBi) = 2.67
	Avg -3 (deg) = 16
	5
2450MHz	Avg (dBi) = -1.53
	Peak (dBi) = 2.44
	Avg -3 (deg) = 13
	0
2500MHz	Avg (dBi) = -2.61
	Peak (dBi) = 1.92
	Avg -3 (deg) = 13
	0

— 2400MHz — 2450MHz
— 2500MHz

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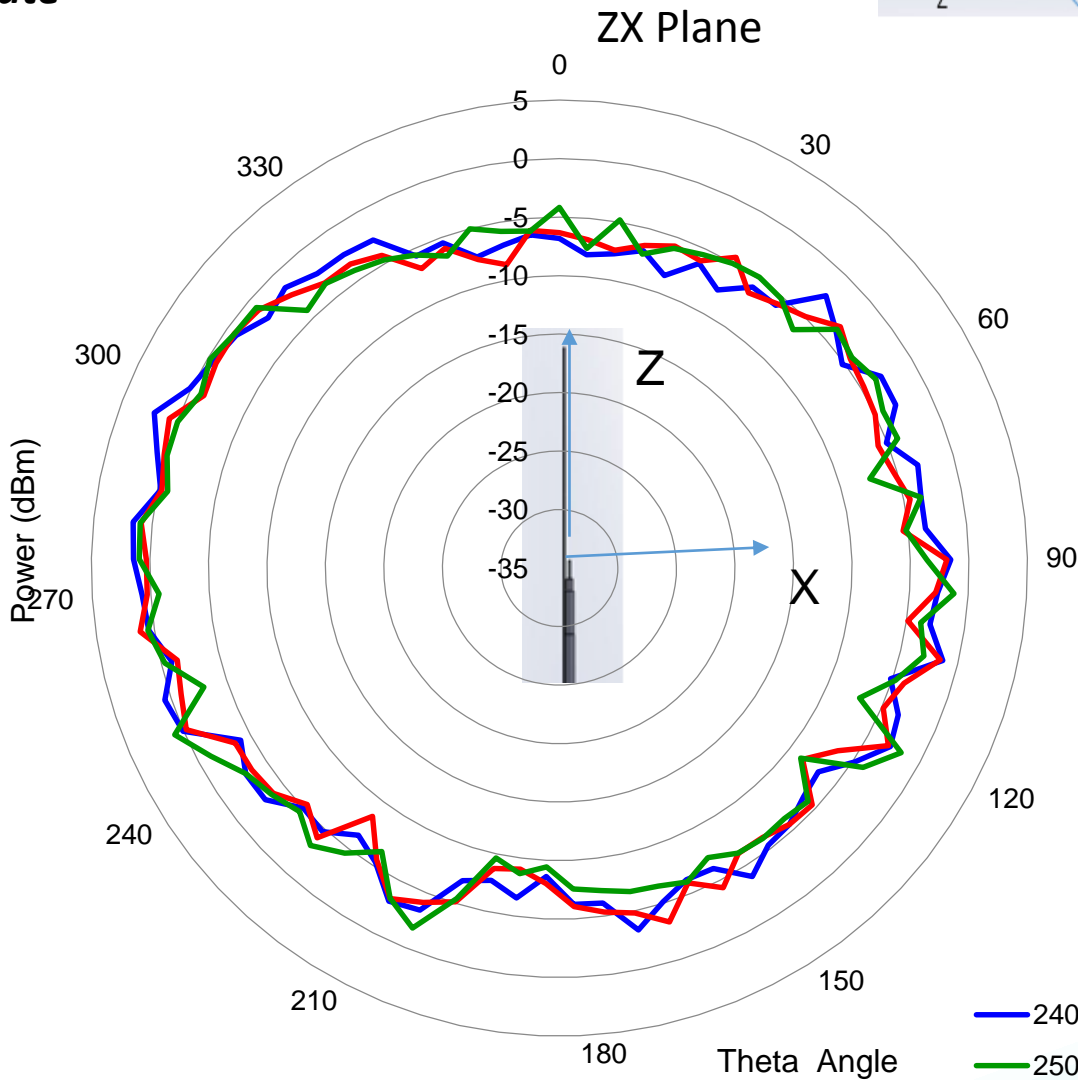
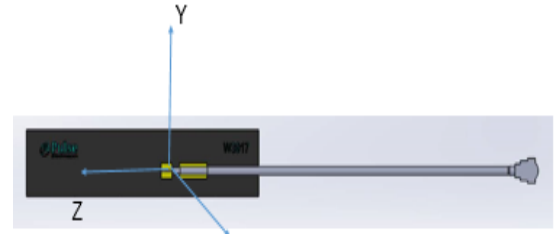
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CHARTS

Typical free space radiation pattern

WiFi 2.4GHz

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



2400MHz
Avg (dBi) = -3.95
Peak (dBi) = 2.09
Avg -3 (deg) = 25
2450MHz
Avg (dBi) = -4.31
Peak (dBi) = 1.23
Avg -3 (deg) = 35
2500MHz
Avg (dBi) = -4.26
Peak (dBi) = 1.04
Avg -3 (deg) = 40

— 2400MHz — 2450MHz
— 2500MHz

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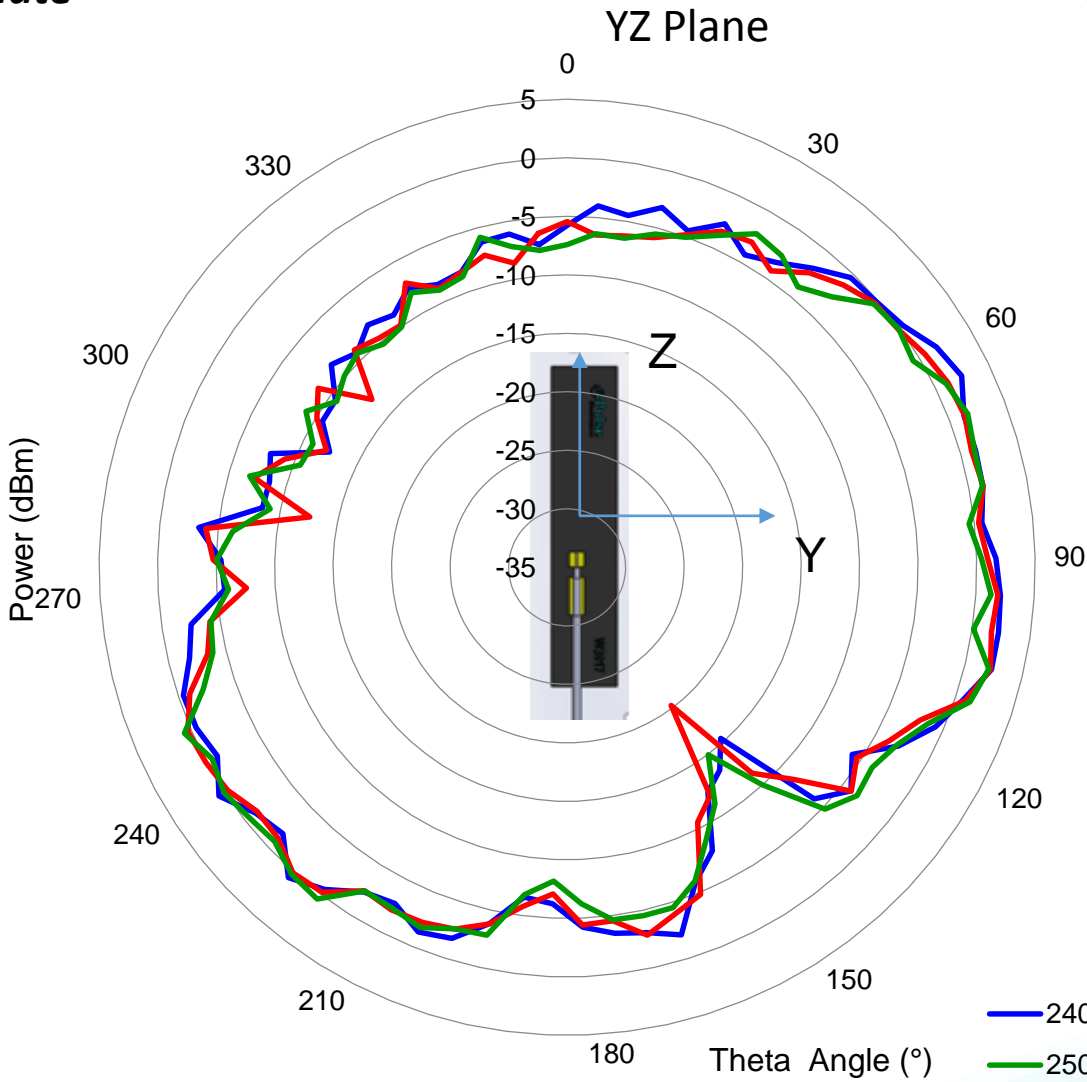
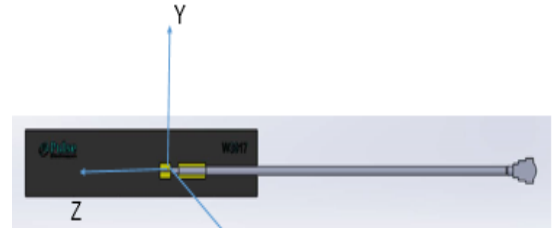
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CHARTS

Typical free space radiation pattern
WIFI 2.4GHz

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



2400MHz	Avg (dBi) = -3.95
	Peak (dBi) = 2.48
	Avg -3 (deg) = 42.5
2450MHz	Avg (dBi) = -4.52
	Peak (dBi) = 2.22
	Avg -3 (deg) = 42.5
2500MHz	Avg (dBi) = -4.42
	Peak (dBi) = 2.08
	Avg -3 (deg) = 47.5

— 2400MHz — 2450MHz
— 2500MHz

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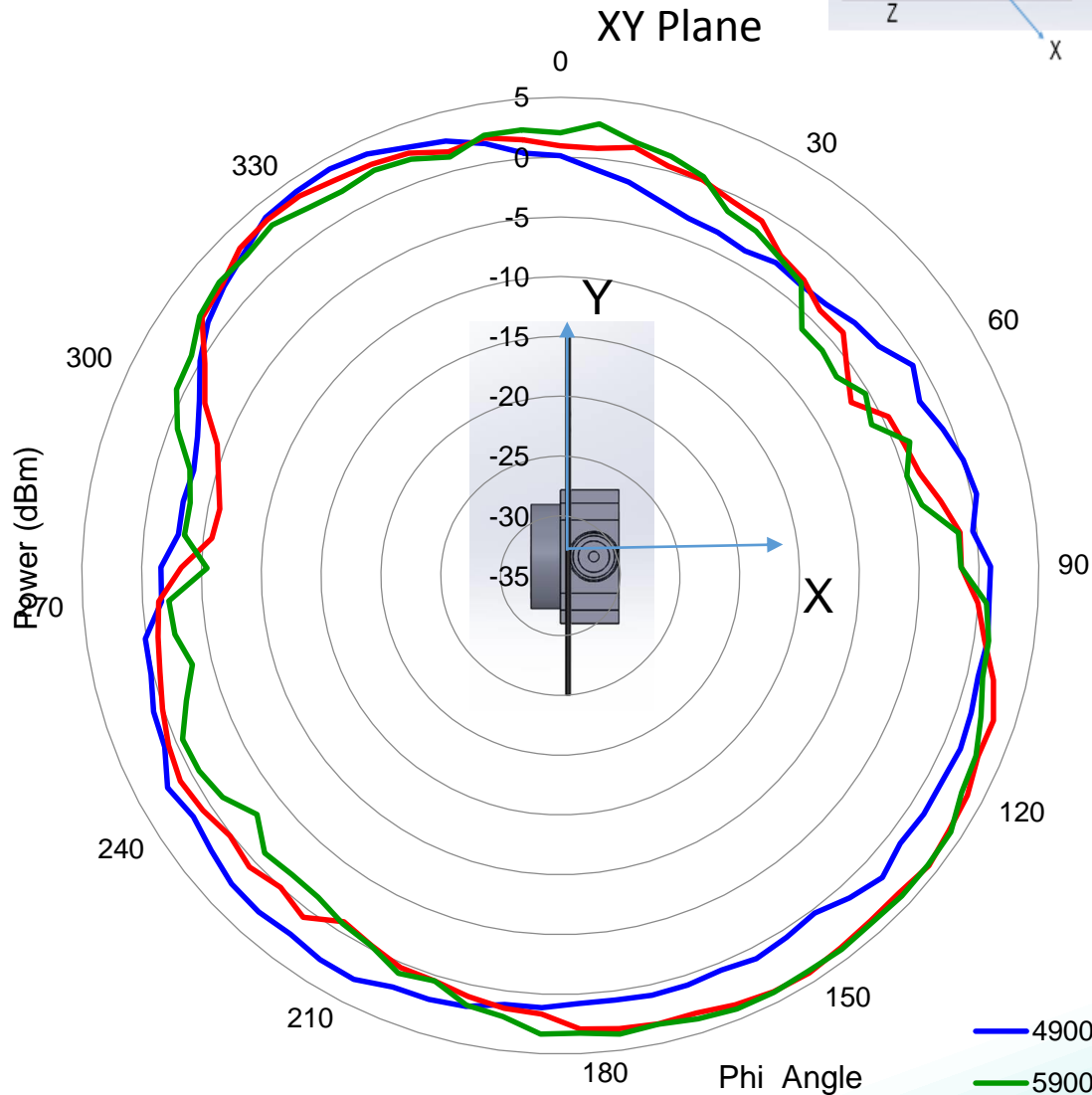
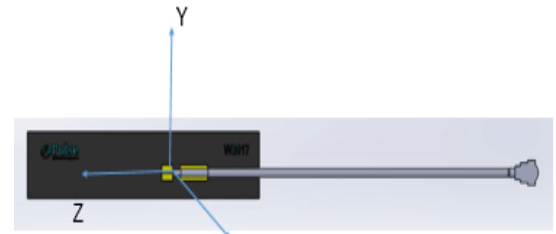
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CHARTS

Typical free space radiation pattern
 WIFI 5GHz
 (*) All RF parameters measured on 2mm thick PC plate



4900MHz	Avg (dBi) = 0.41
	Peak (dBi) = 4.08
	Avg -3 (deg) = 150
5400MHz	Avg (dBi) = 0.32
	Peak (dBi) = 4.19
	Avg -3 (deg) = 150
5900MHz	Avg (dBi) = 0.16
	Peak (dBi) = 4.13
	Avg -3 (deg) = 170

— 4900MHz — 5400MHz
 — 5900MHz

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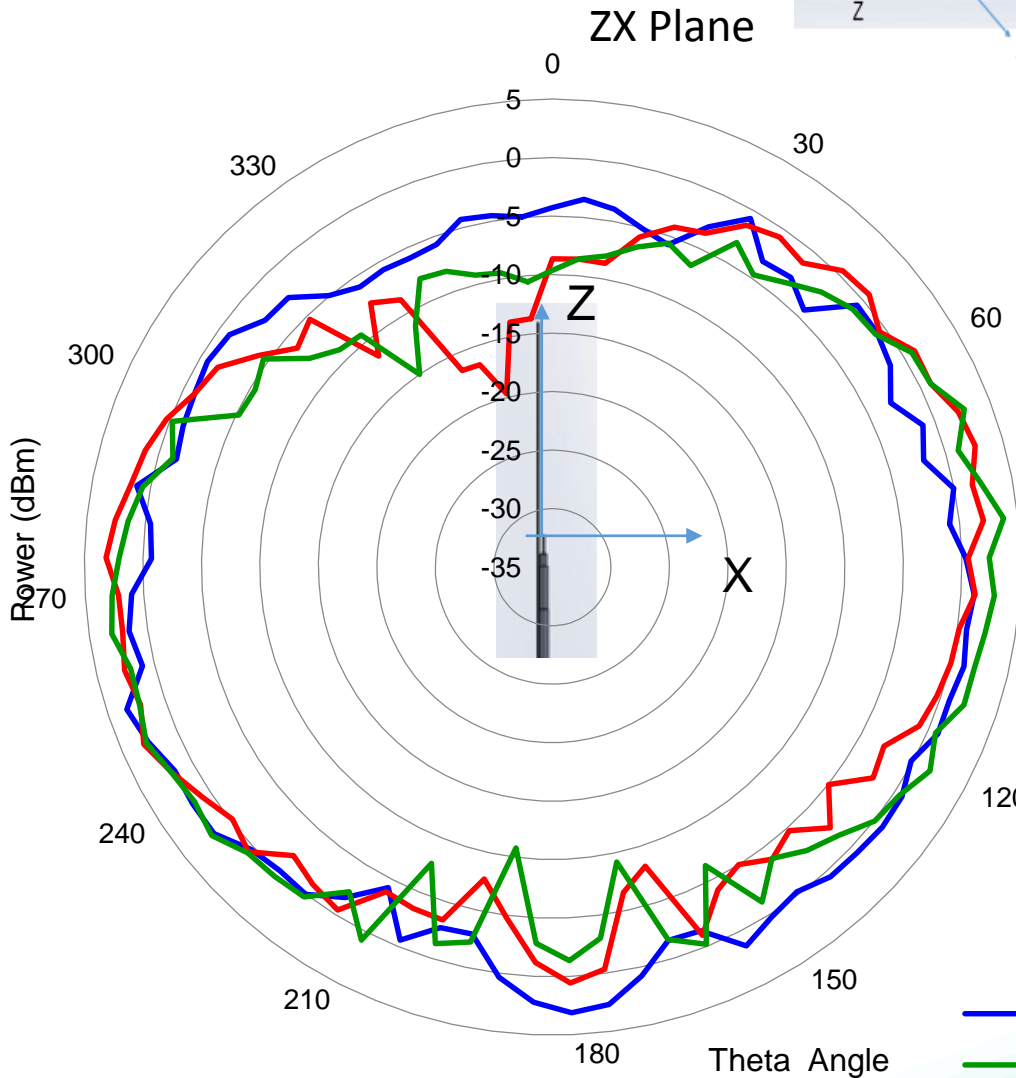
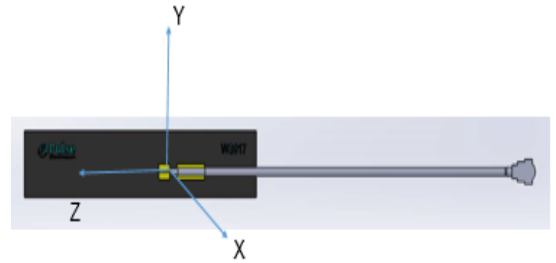
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CHARTS

Typical free space radiation pattern

WIFI 5GHz

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



4900MHz	Avg (dBi) = -1.11
	Peak (dBi) = 3.35
	Avg -3 (deg) = 57.5
5400MHz	Avg (dBi) = -2.83
	Peak (dBi) = 3.16
	Avg -3 (deg) = 57.5
5900MHz	Avg (dBi) = -2.48
	Peak (dBi) = 3.79
	Avg -3 (deg) = 52.5

— 4900MHz — 5400MHz
— 5900MHz

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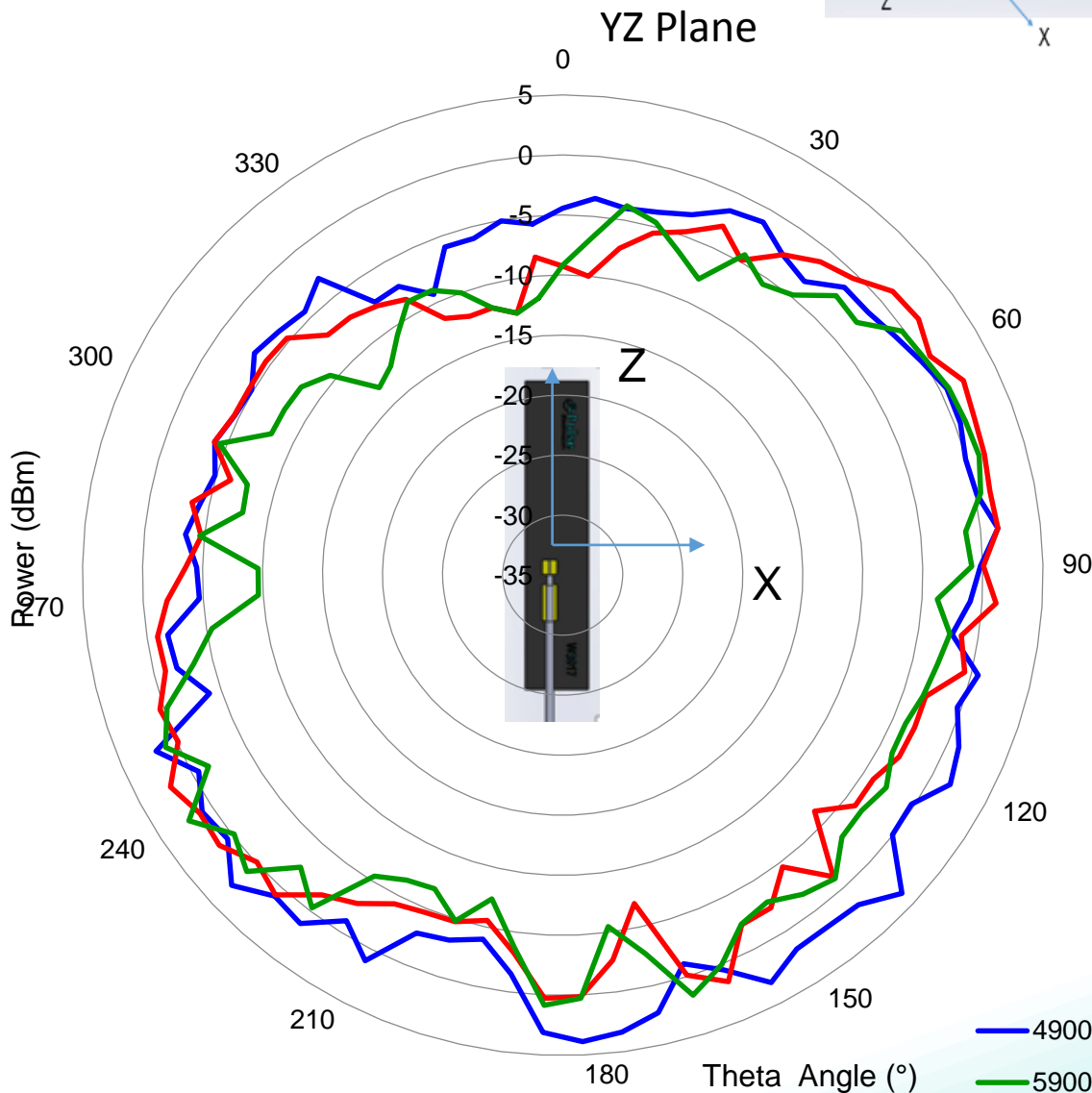
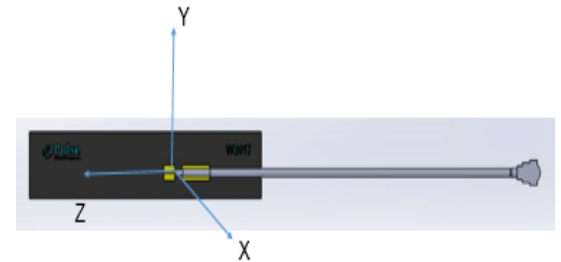
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CHARTS

Typical free space radiation pattern
WIFI 5GHz

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



4900MHz	Avg (dBi) = -1.55
	Peak (dBi) = 3.89
	Avg -3 (deg) = 42.5
5400MHz	Avg (dBi) = -3.19
	Peak (dBi) = 2.13
	Avg -3 (deg) = 57.5
5900MHz	Avg (dBi) = -4.41
	Peak (dBi) = 2.25
	Avg -3 (deg) = 37.5

— 4900MHz — 5400MHz
— 5900MHz

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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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