



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: 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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For more information:

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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



Description: 2.4/5GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3917XXXX

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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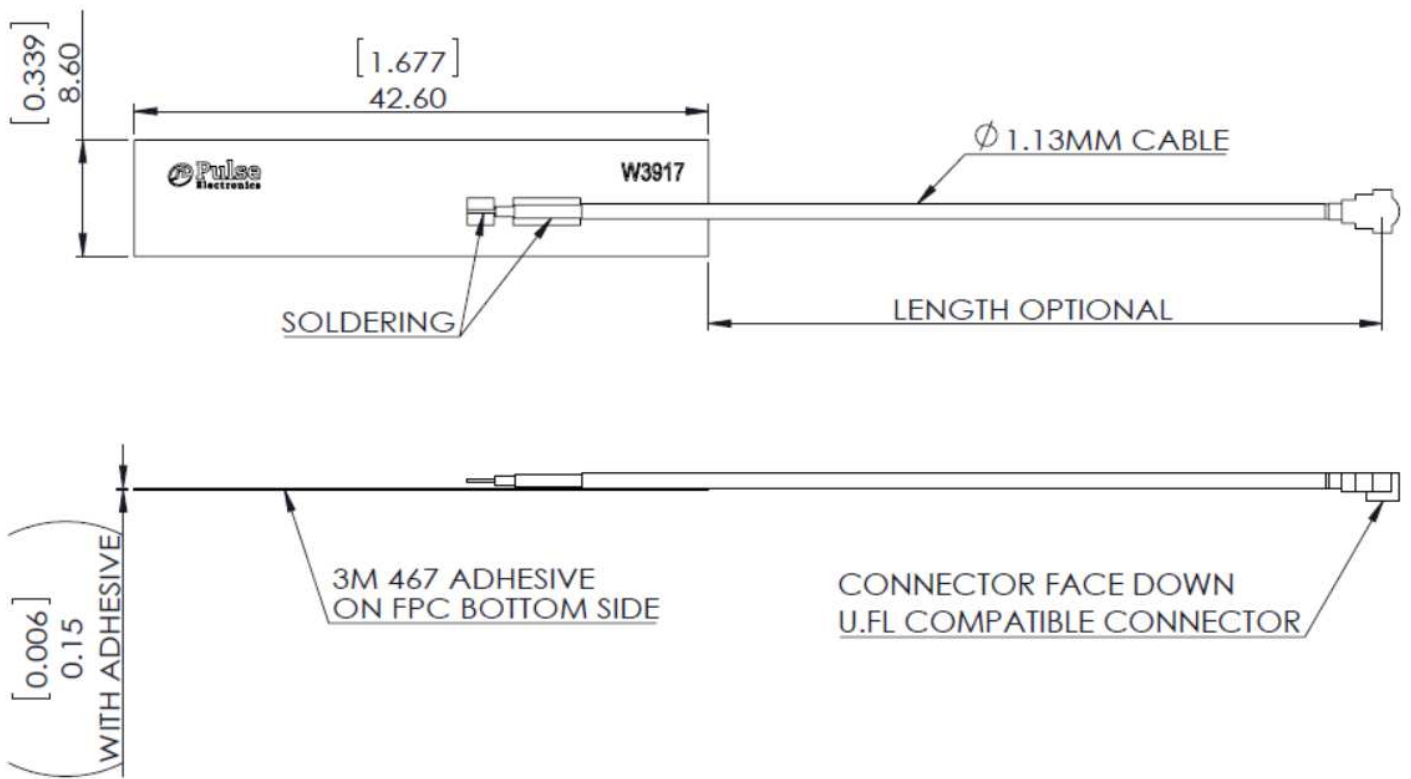
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Description: 2.4/5GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3917XXXX

MECHANICAL DRAWING



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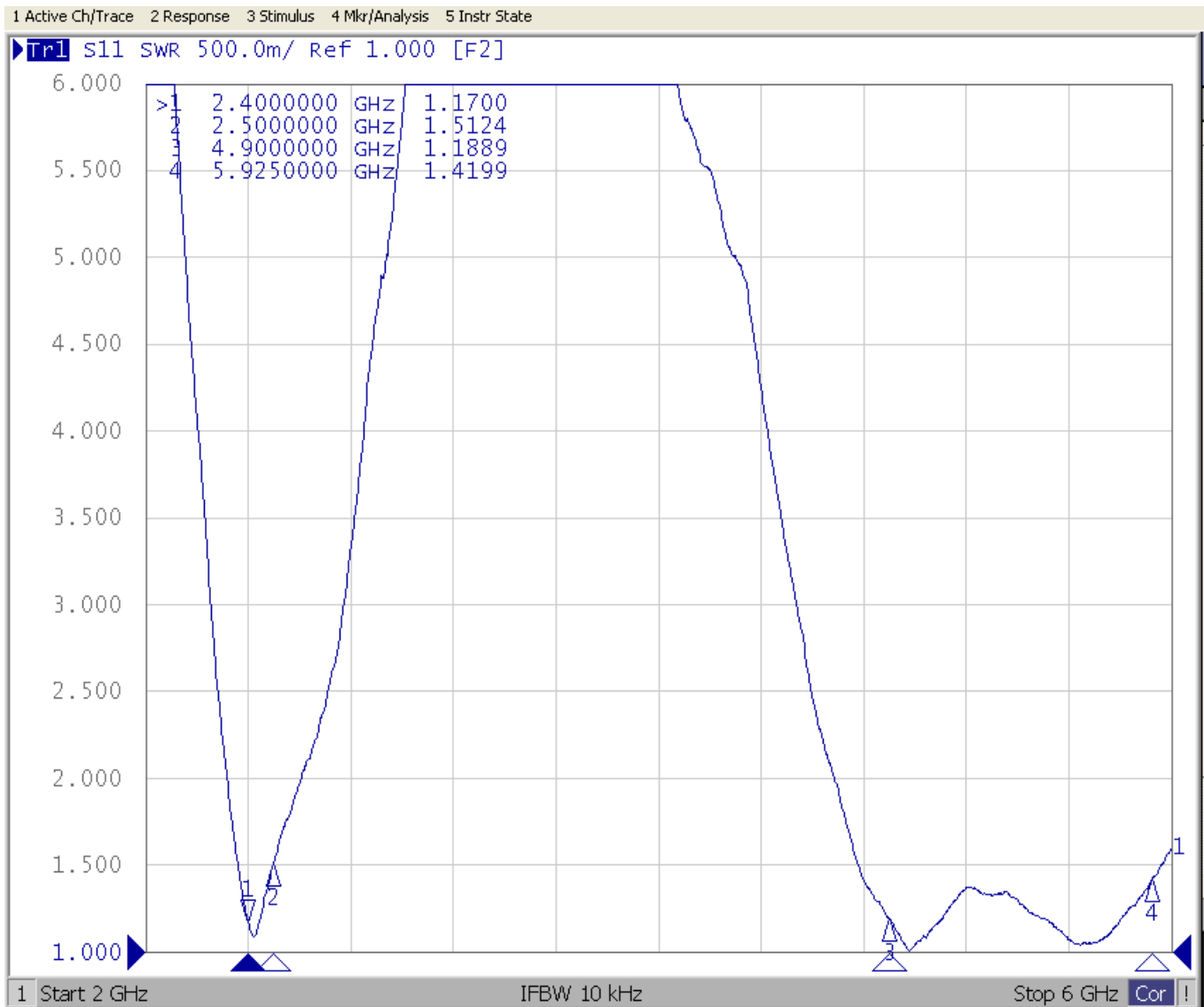
Series: Internal Antenna

PART NUMBER: W3917XXXX

CHARTS

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

Return Loss



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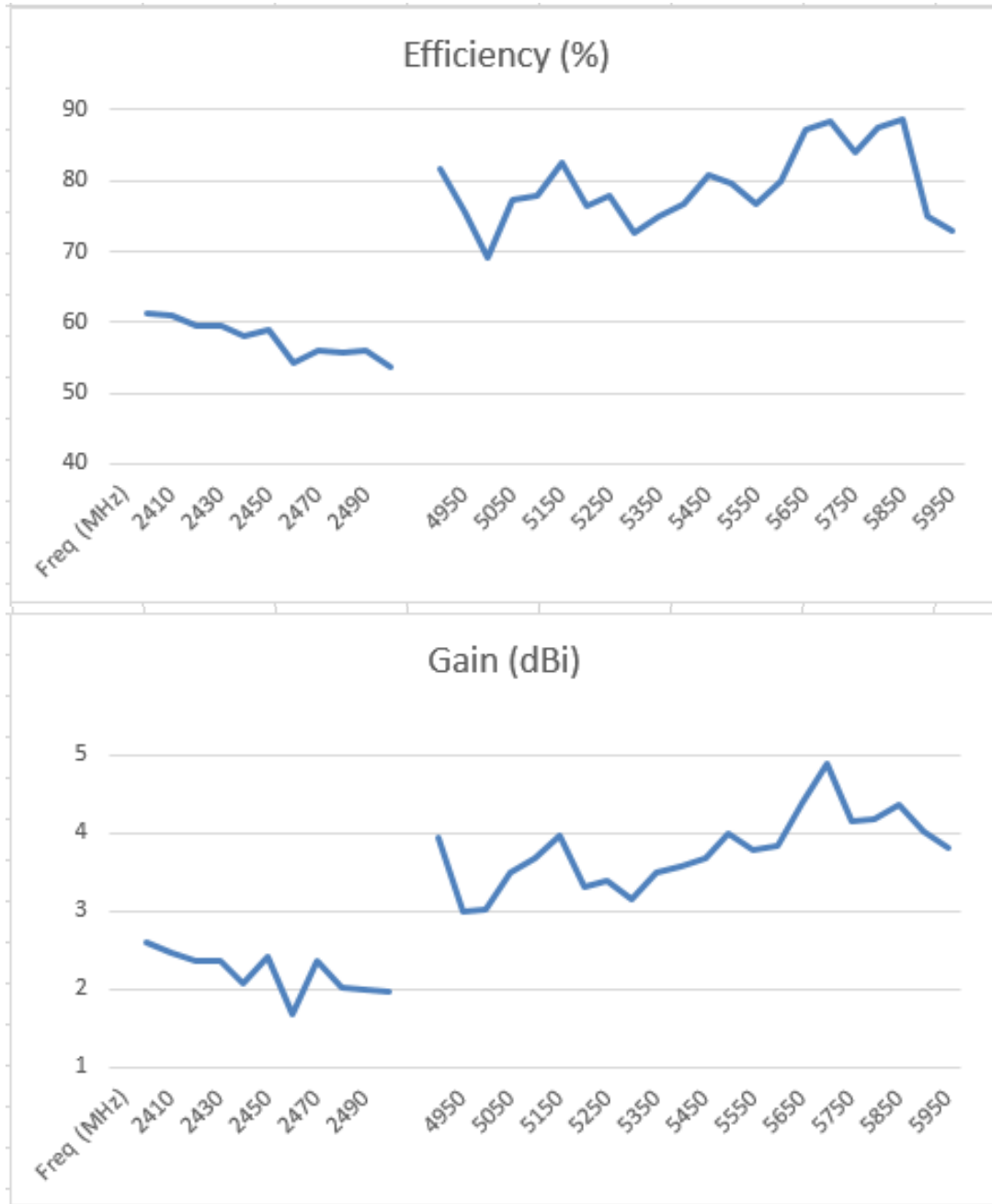
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Series: Internal Antenna

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CHARTS

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



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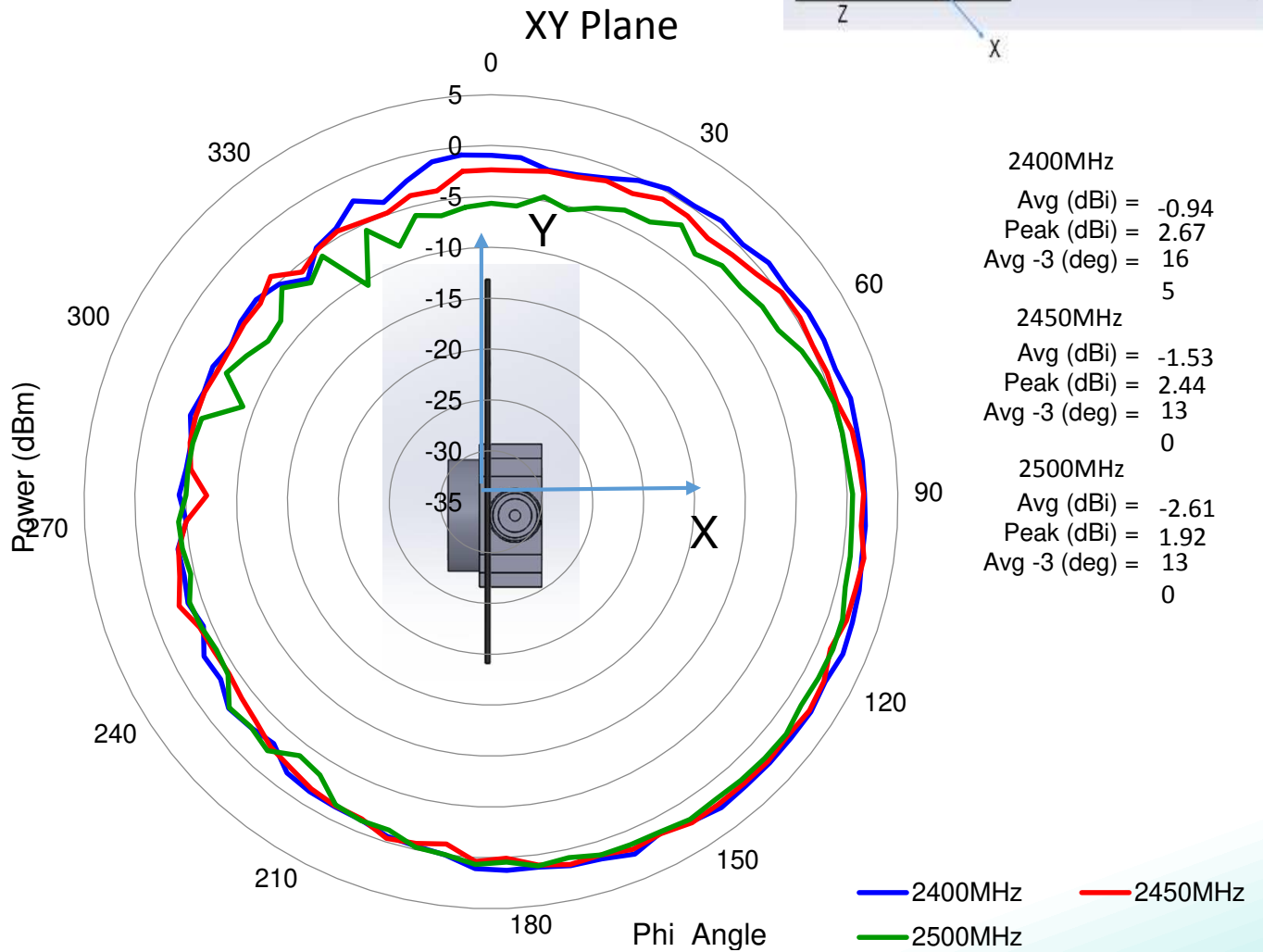
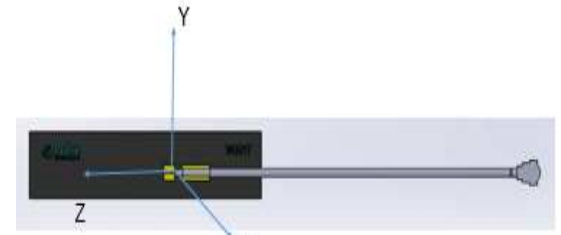
PART NUMBER: W3917XXXX

CHARTS

Typical free space radiation pattern

WiFi 2.4GHz

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



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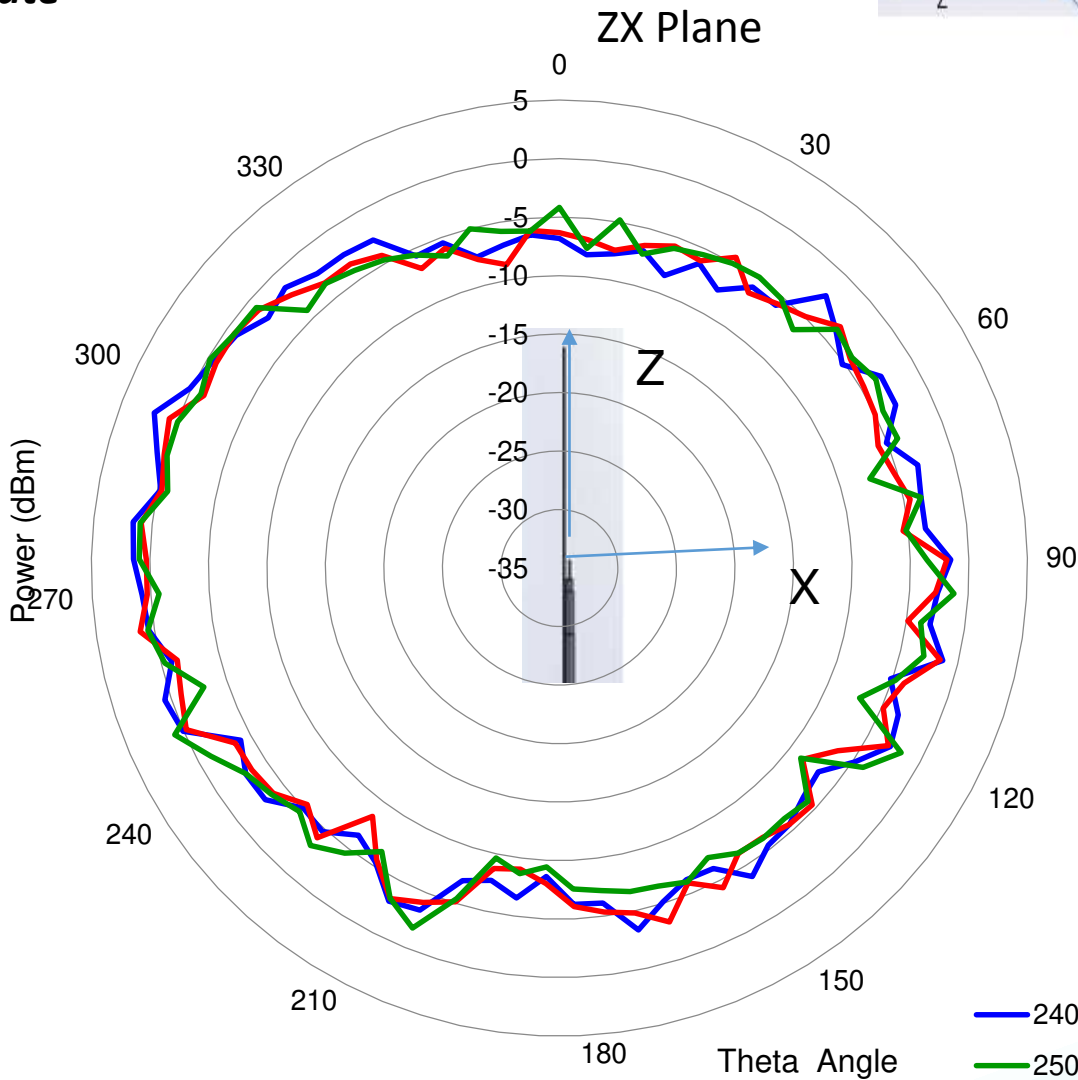
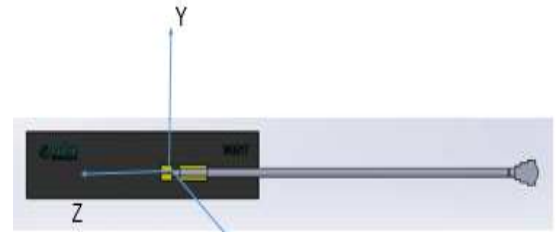
Series: Internal Antenna

PART NUMBER: W3917XXXX

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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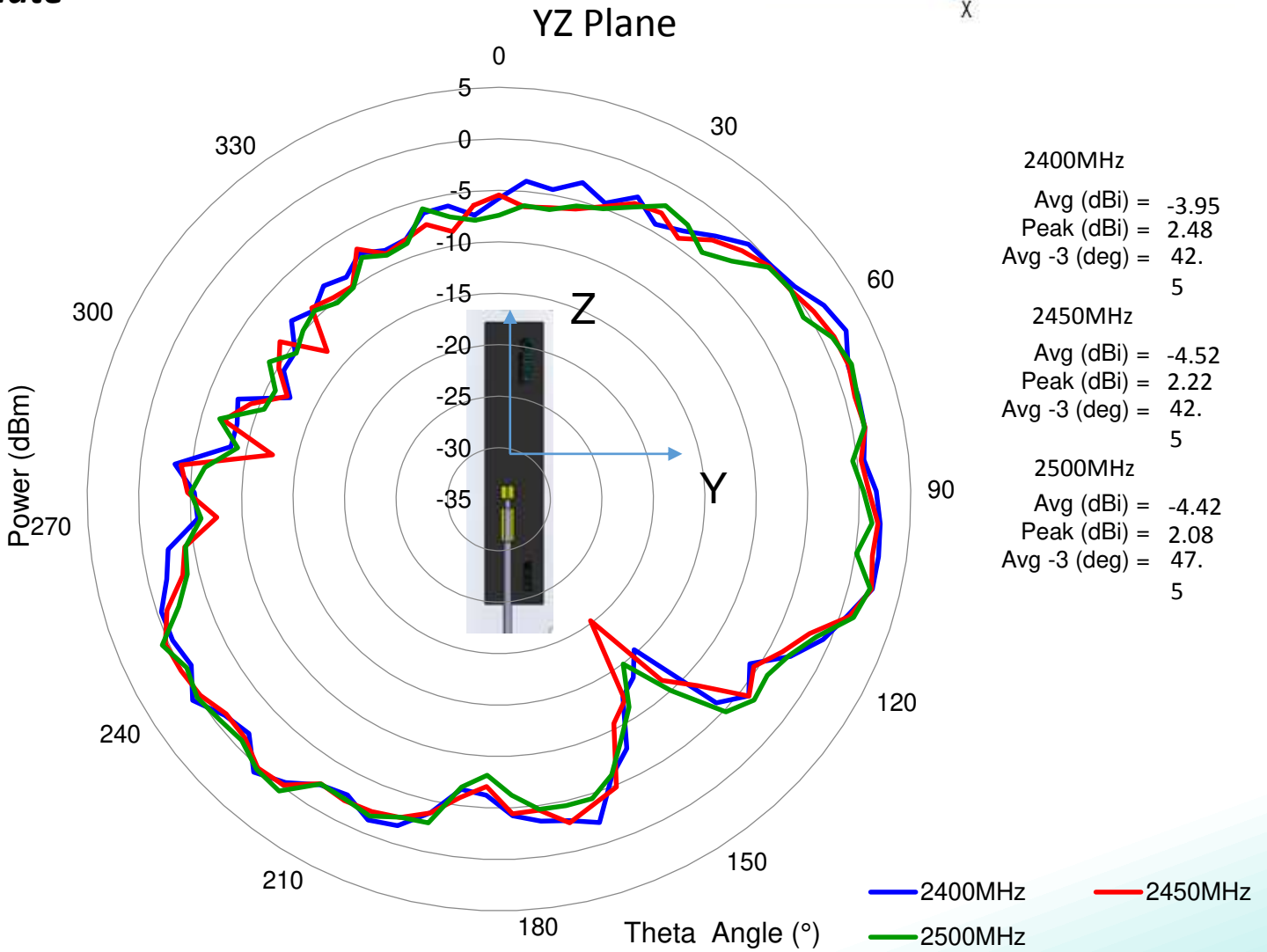
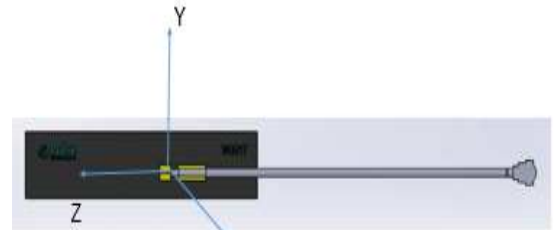
Series: Internal Antenna

PART NUMBER: W3917XXXX

CHARTS

Typical free space radiation pattern
WIFI2.4GHz

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



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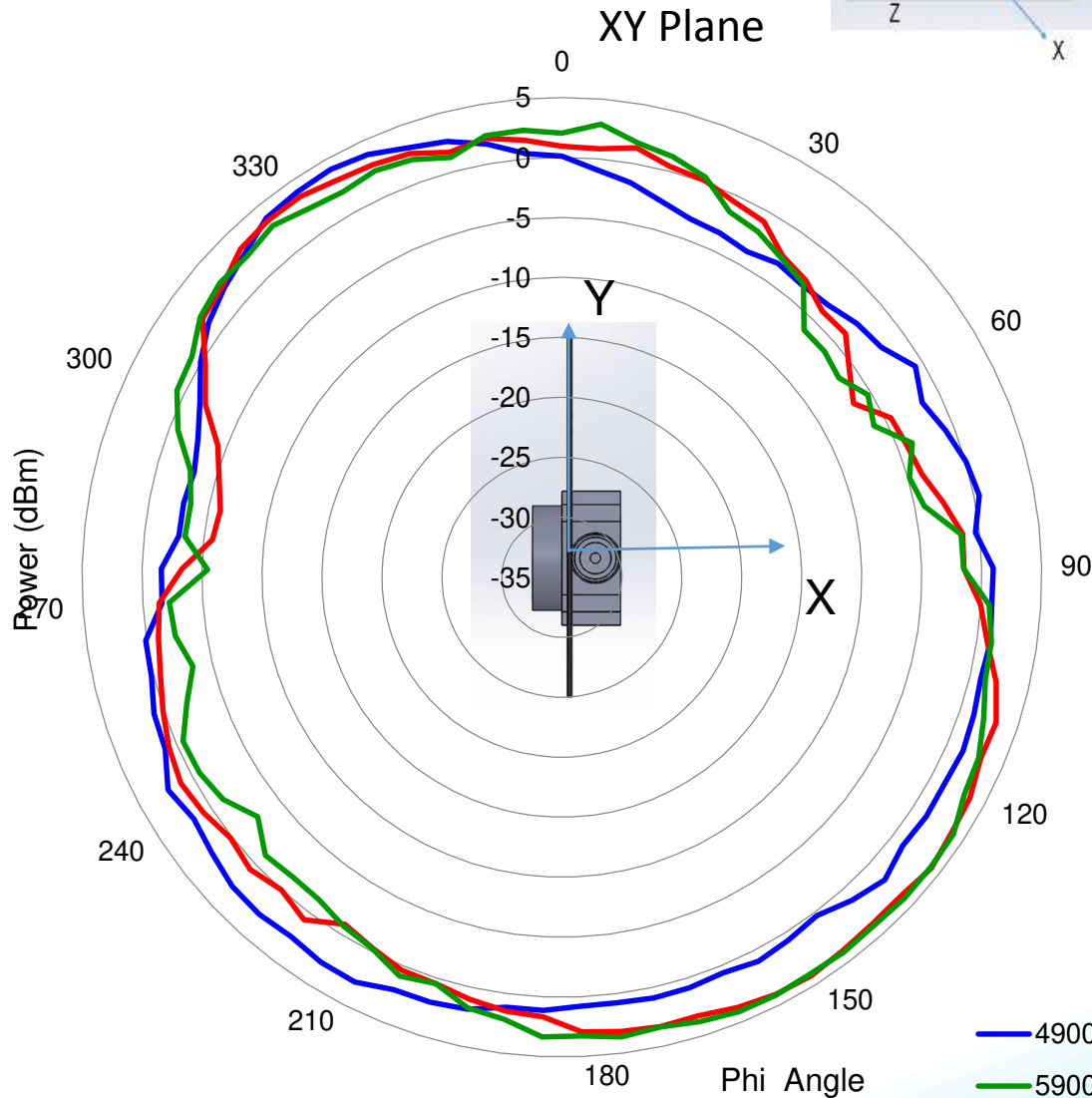
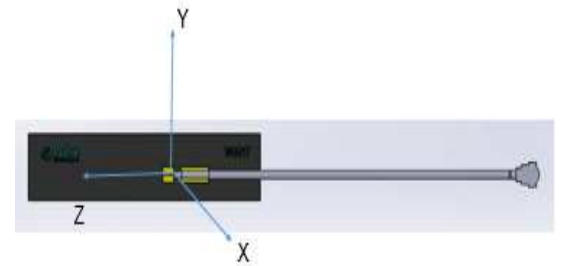
PART NUMBER: W3917XXXX

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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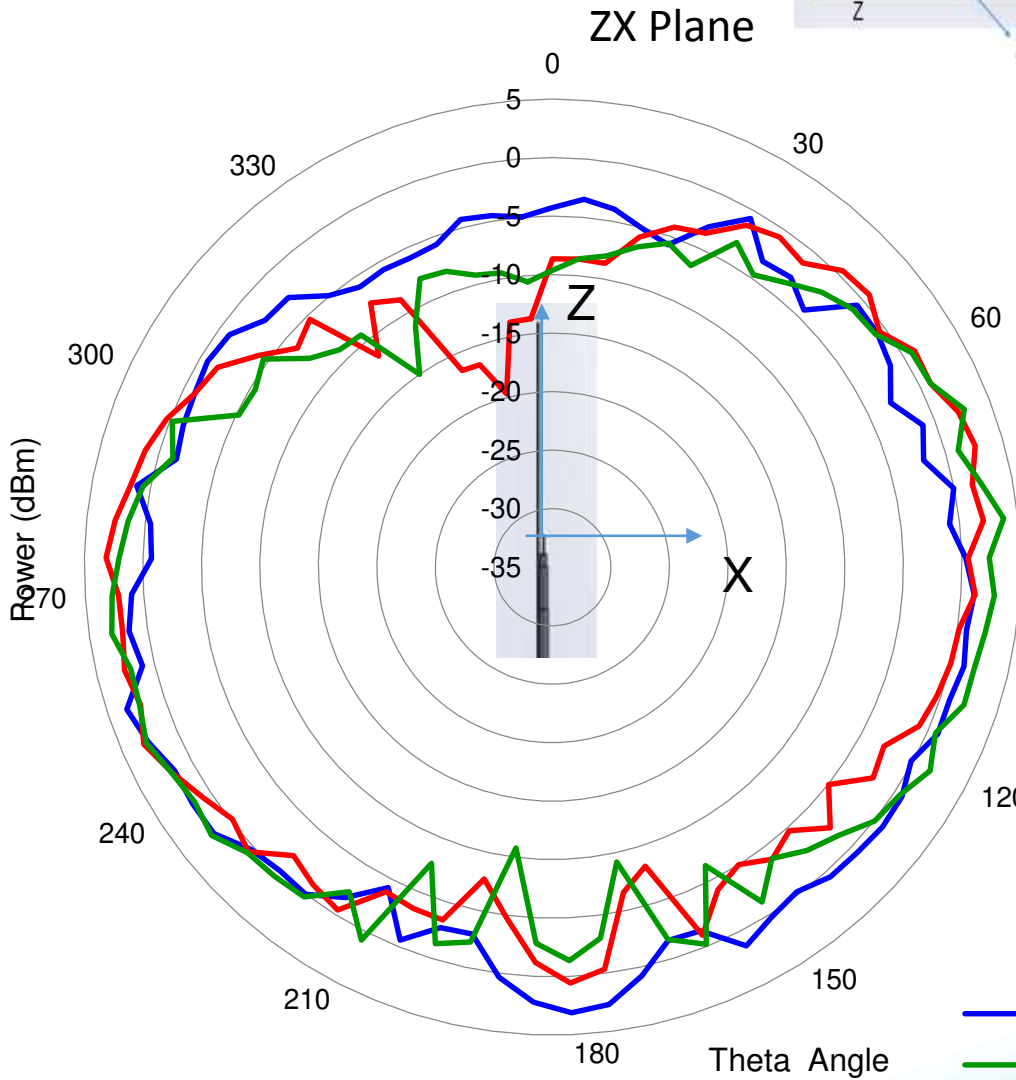
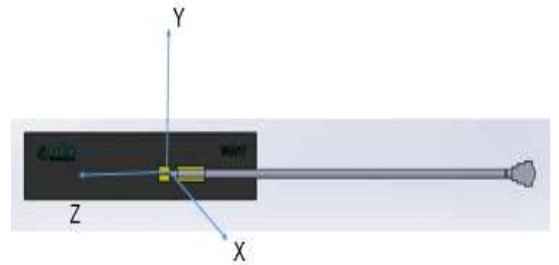
PART NUMBER: W3917XXXX

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

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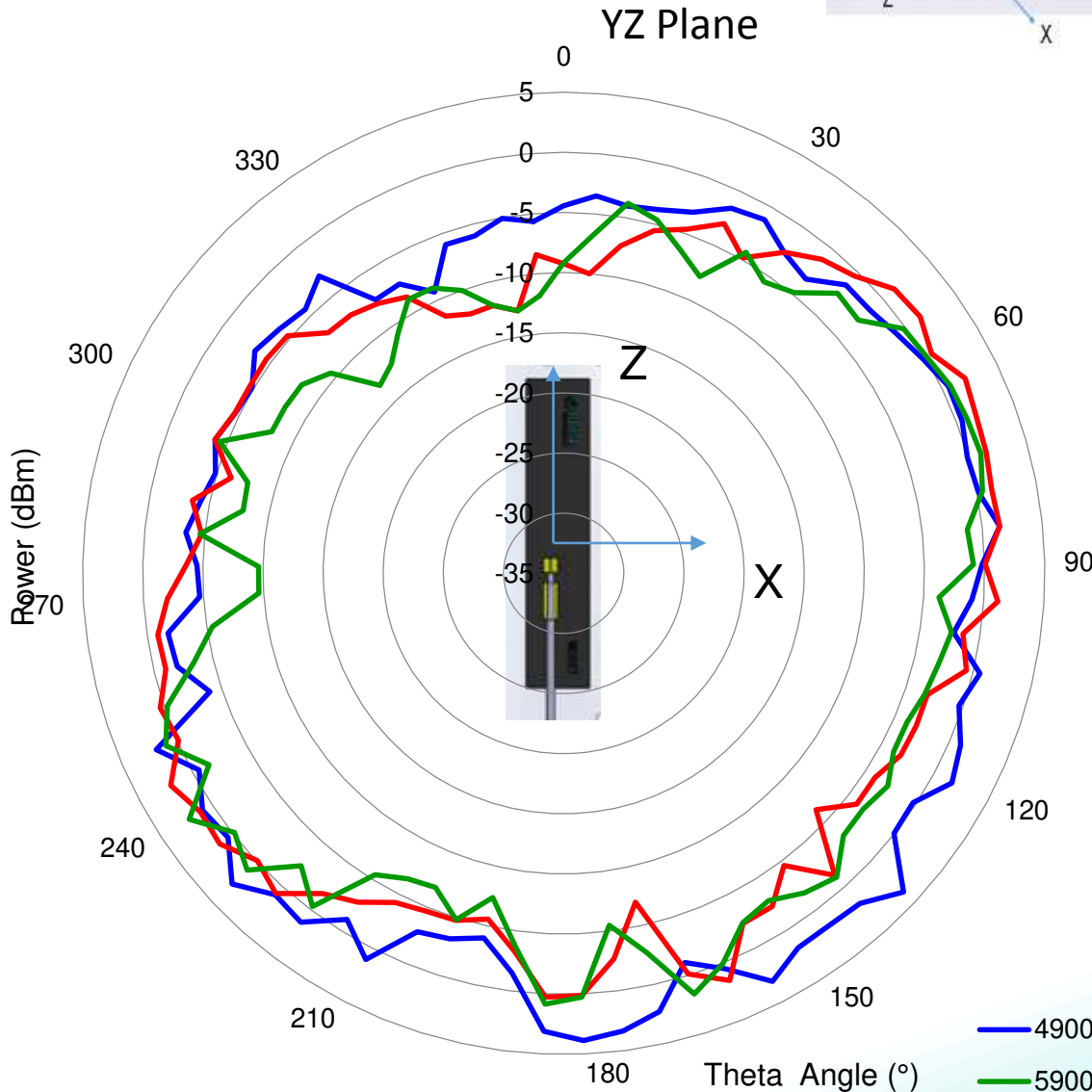
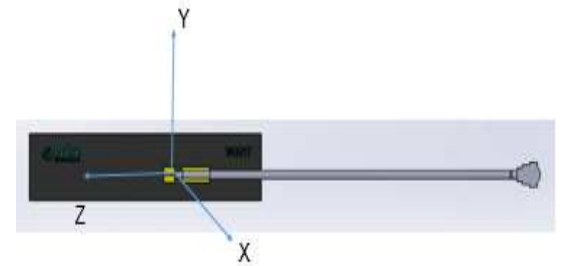
Series: Internal Antenna

PART NUMBER: W3917XXXX

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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Description: 2.4/5GHz FPC antenna

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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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