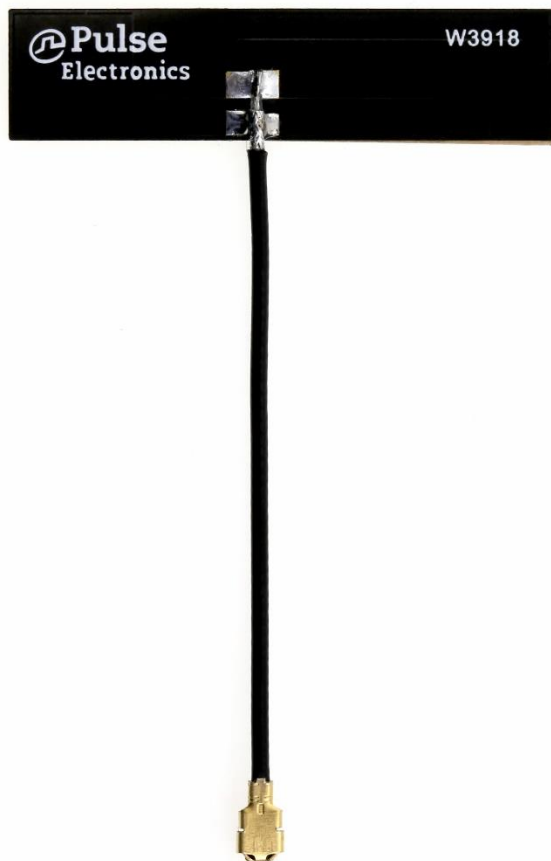


Description: 2.4/5GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918XXXX



### Features:

- 2400-2500 / 4900-5925 MHz
- Size 35.2 X 8.5 X 0.15 mm
- Efficiency > 60/70%
- VSWR < 2
- Nominal impedance 50  $\Omega$
- Cable and connector can be customized

### Applications:

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

All dimensions are in mm / inches

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For more information:

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Tel: 1-858-674-8100

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

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

Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg, 4<sup>th</sup> 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: W3918XXXX****This document covers all product variants of the following product family:**

W3918B0050	50mm 1.13mm OD cable	U.FL compatible connector
W3918B0100	100mm 1.13mm OD cable	U.FL compatible connector
W3918T0050	50mm 1.13mm OD cable	RP-SMA MALE, straight connector

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Description: 2.4/5GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918XXXX

## ELECTRICAL SPECIFICATIONS

Frequency	2400-2500, 4900-5925MHz
Nominal Impedance	50Ω
VSWR	< 2
Gain	3dBi+/- 1dB @ 2.4GHz 4dBi+/-1dB@5GHz
Efficiency(%)	60/70%
Radiation Pattern	Omni
Polarization:	Linear
Power withstanding	2 W
Connector	Optional
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: W3918XXXX

### MECHANICAL SPECIFICATIONS

Radiator material	FPC
Color	Black
Adhesive	3M467
Thickness(with adhesive, no liner)	0.15 mm
FPC size(L X W X T)	35.2 X 8.5 X 0.15 mm

### ENVIRONMENTAL SPECIFICATIONS

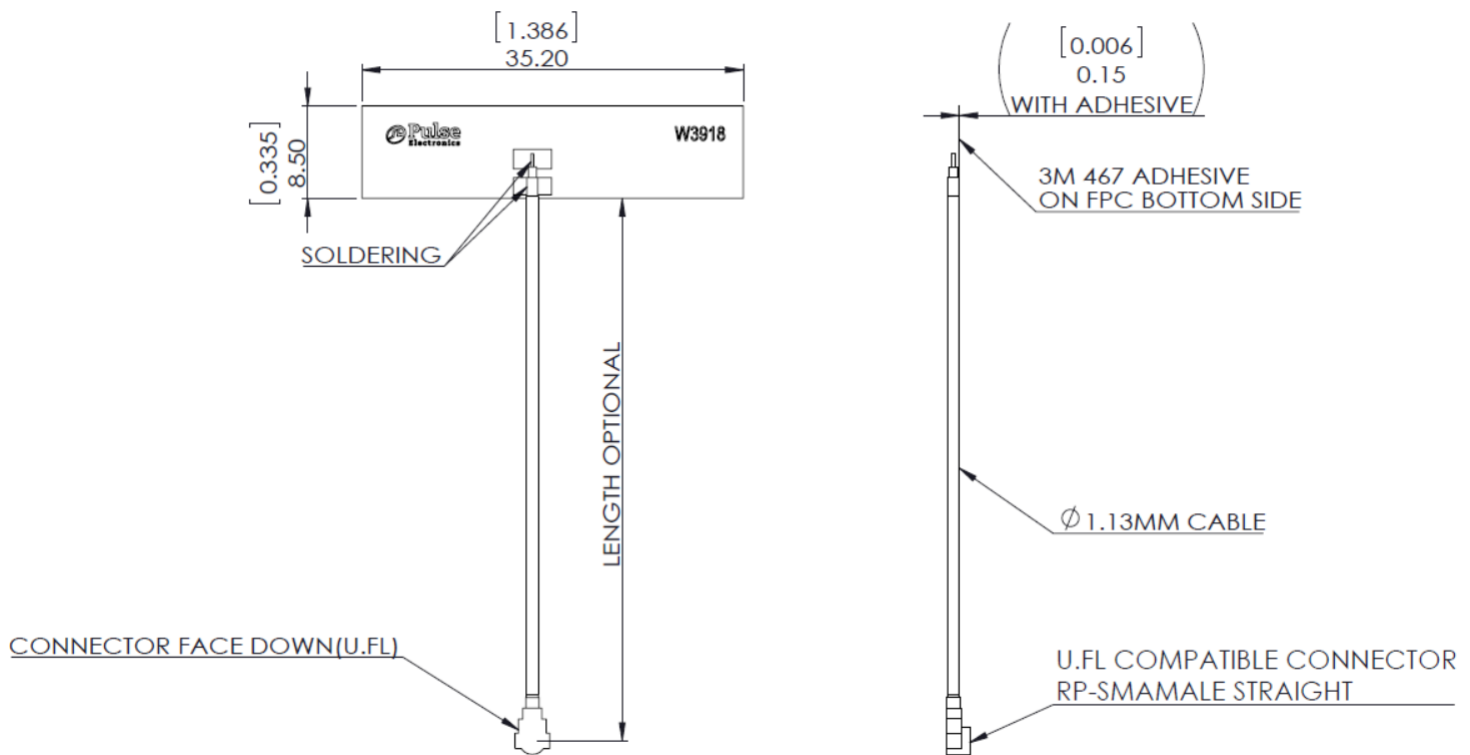
Operating temperature	-40/+85 ° C
-----------------------	-------------

Description: 2.4/5GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918XXXX

## MECHANICAL DRAWING



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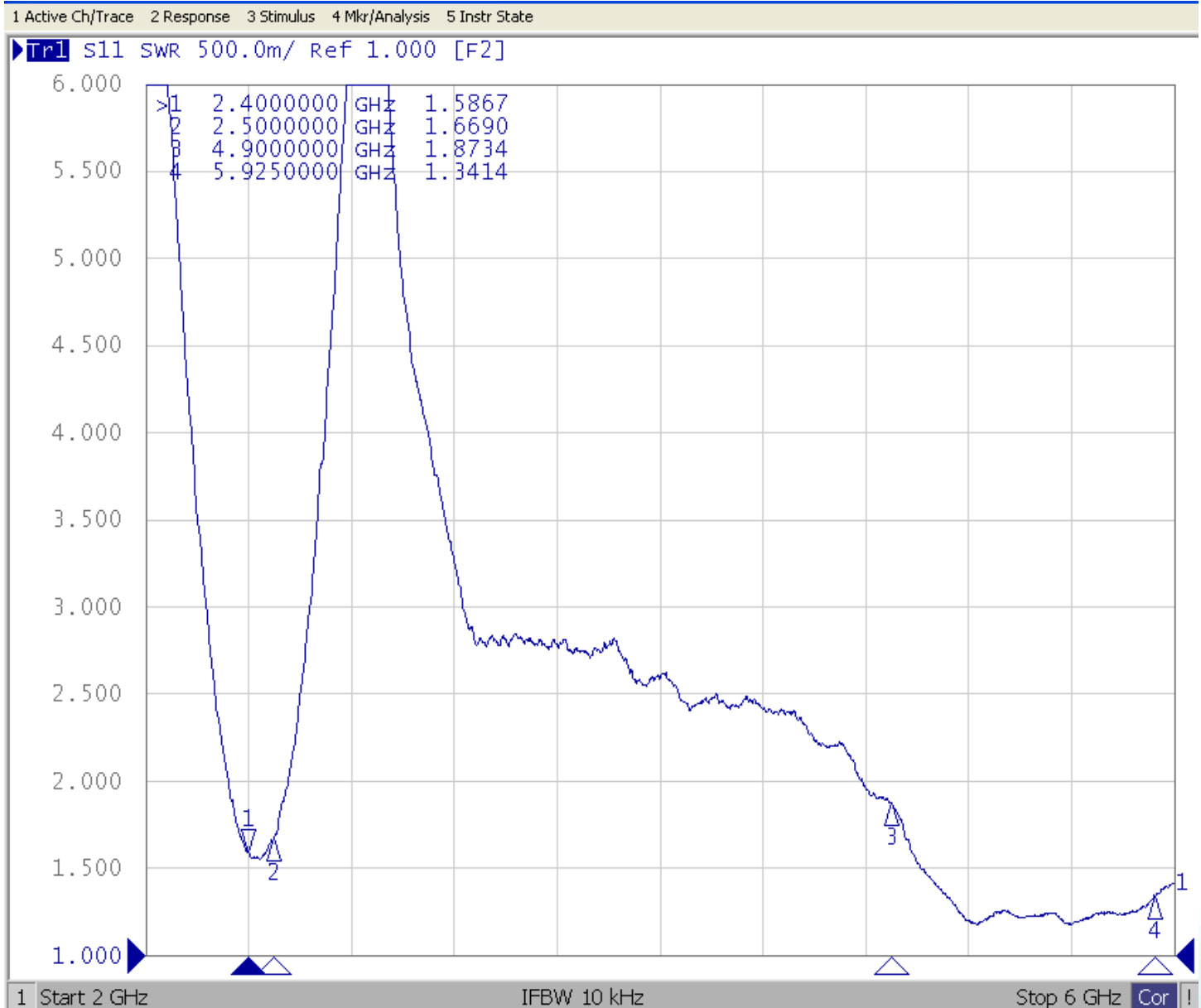
Description: 2.4/5GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918XXXX

## CHARTS

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



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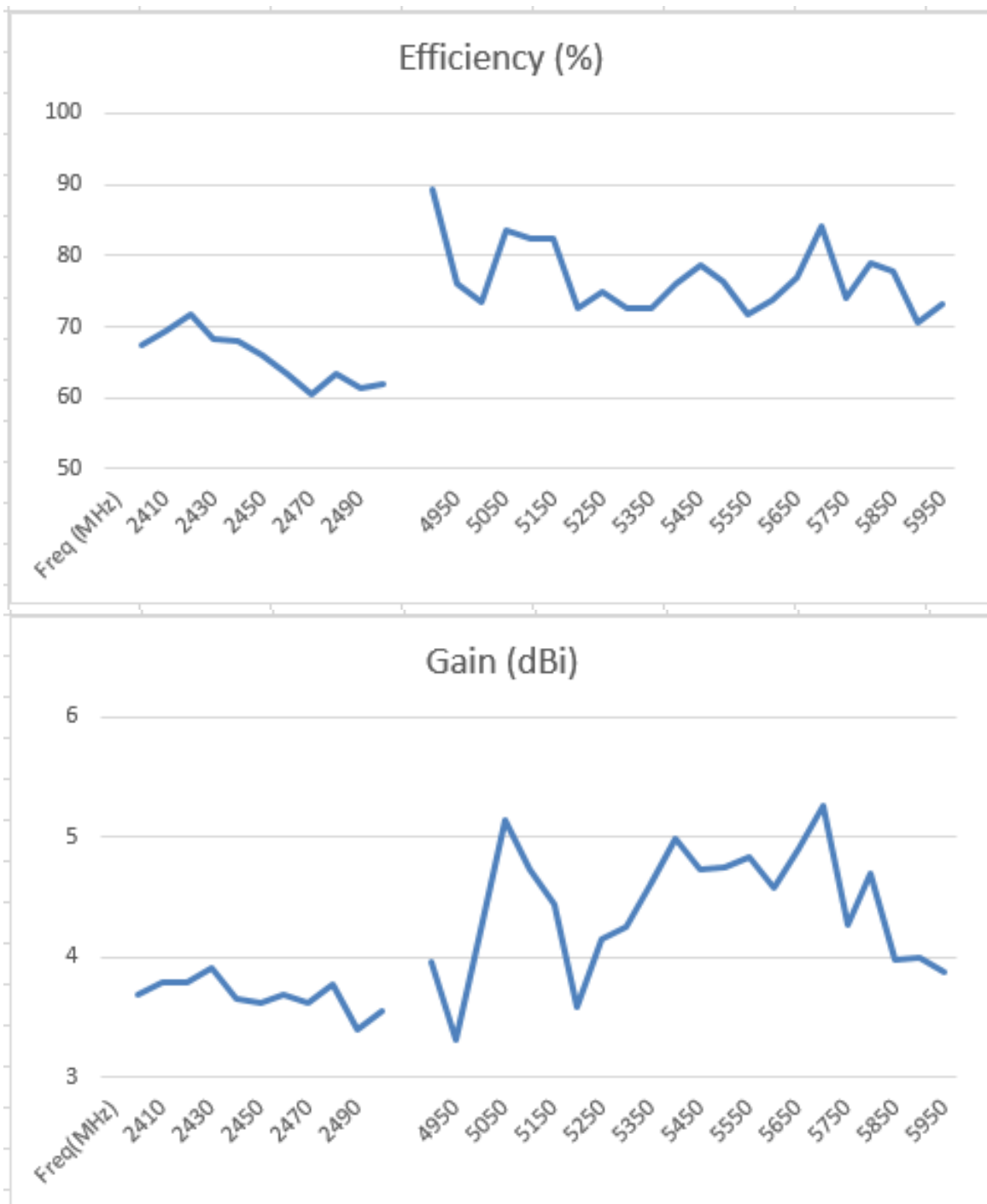
Description: 2.4/5GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918XXXX

## CHARTS

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



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# Description: 2.4/5GHz FPC antenna

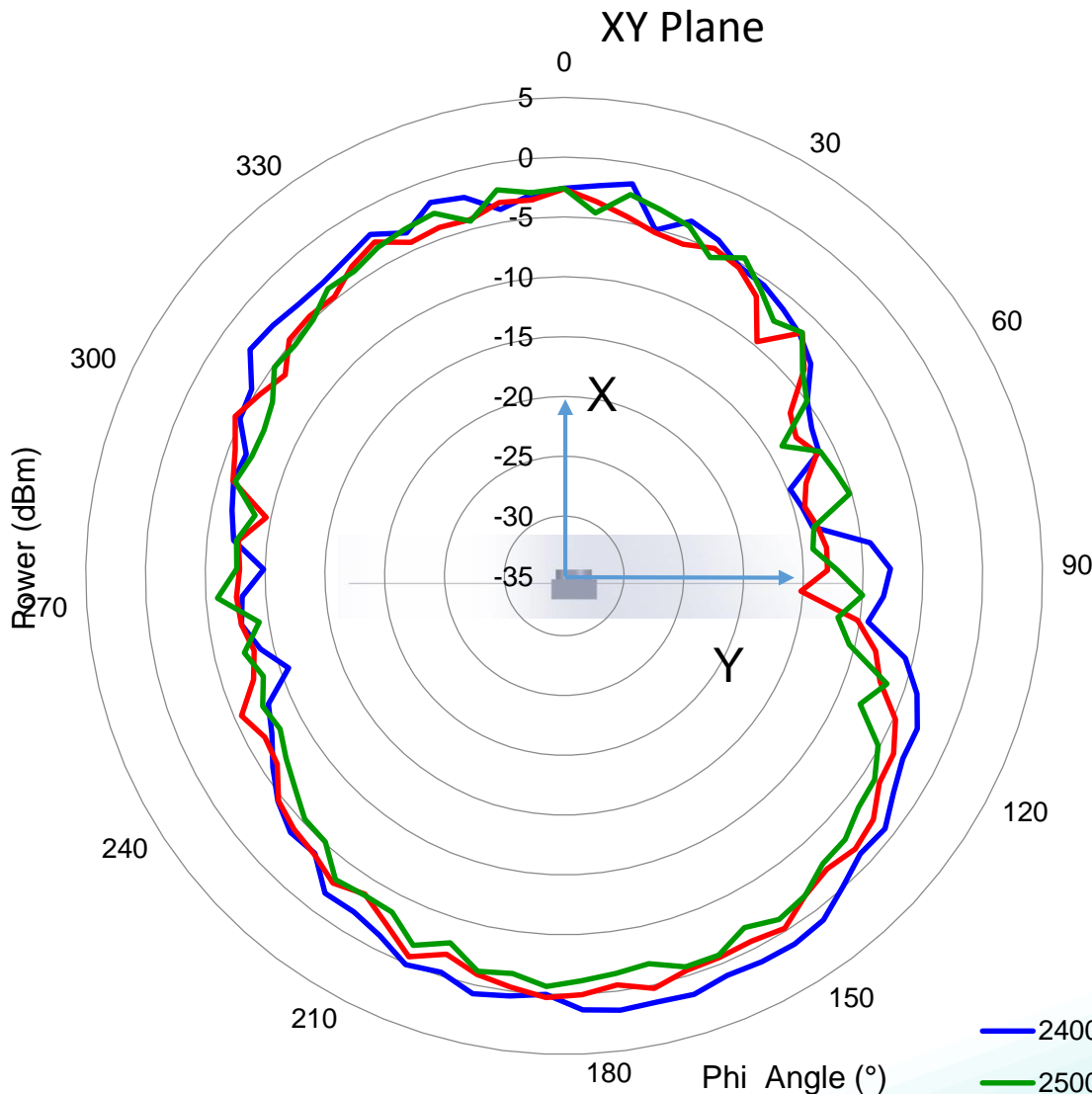
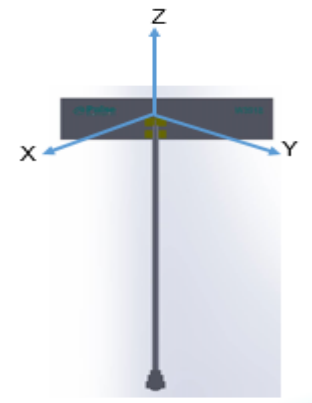
Series: Internal Antenna

PART NUMBER: W3918XXXX

## CHARTS

Typical free space radiation pattern  
WIFI2.4GHz

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



2400MHz
Avg (dBi) = -4.37
Peak (dBi) = 1.63
Avg -3 (deg) = 80
2450MHz
Avg (dBi) = -5.41
Peak (dBi) = 0.31
Avg -3 (deg) = 55
2500MHz
Avg (dBi) = -5.61
Peak (dBi) = -0.64
Avg -3 (deg) = 125

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## Description: 2.4/5GHz FPC antenna

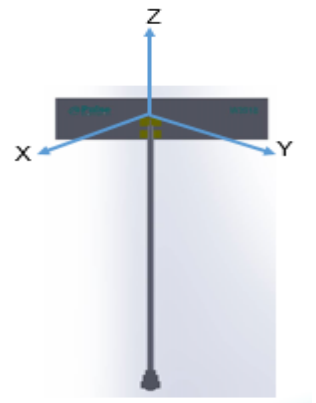
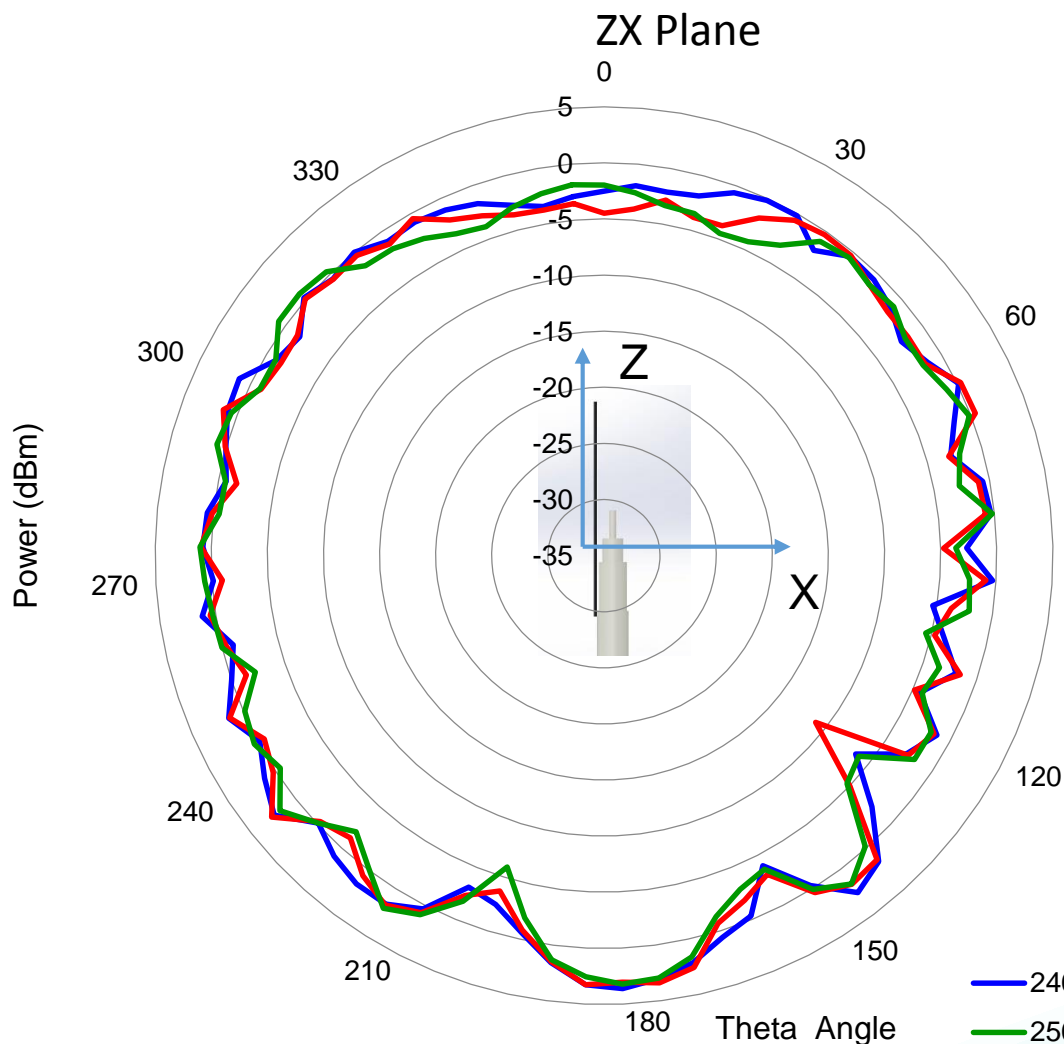
Series: Internal Antenna

PART NUMBER: W3918XXXX

### CHARTS

Typical free space radiation pattern  
WIFI 2.4GHz

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



2400MHz

Avg (dBi) = -0.69  
Peak (dBi) = 3.61  
Avg -3 (deg) = 42.5

2450MHz

Avg (dBi) = -1.18  
Peak (dBi) = 3.38  
Avg -3 (deg) = 40

2500MHz

Avg (dBi) = -1.31  
Peak (dBi) = 3.22  
Avg -3 (deg) = 42.5

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# Description: 2.4/5GHz FPC antenna

Series: Internal Antenna

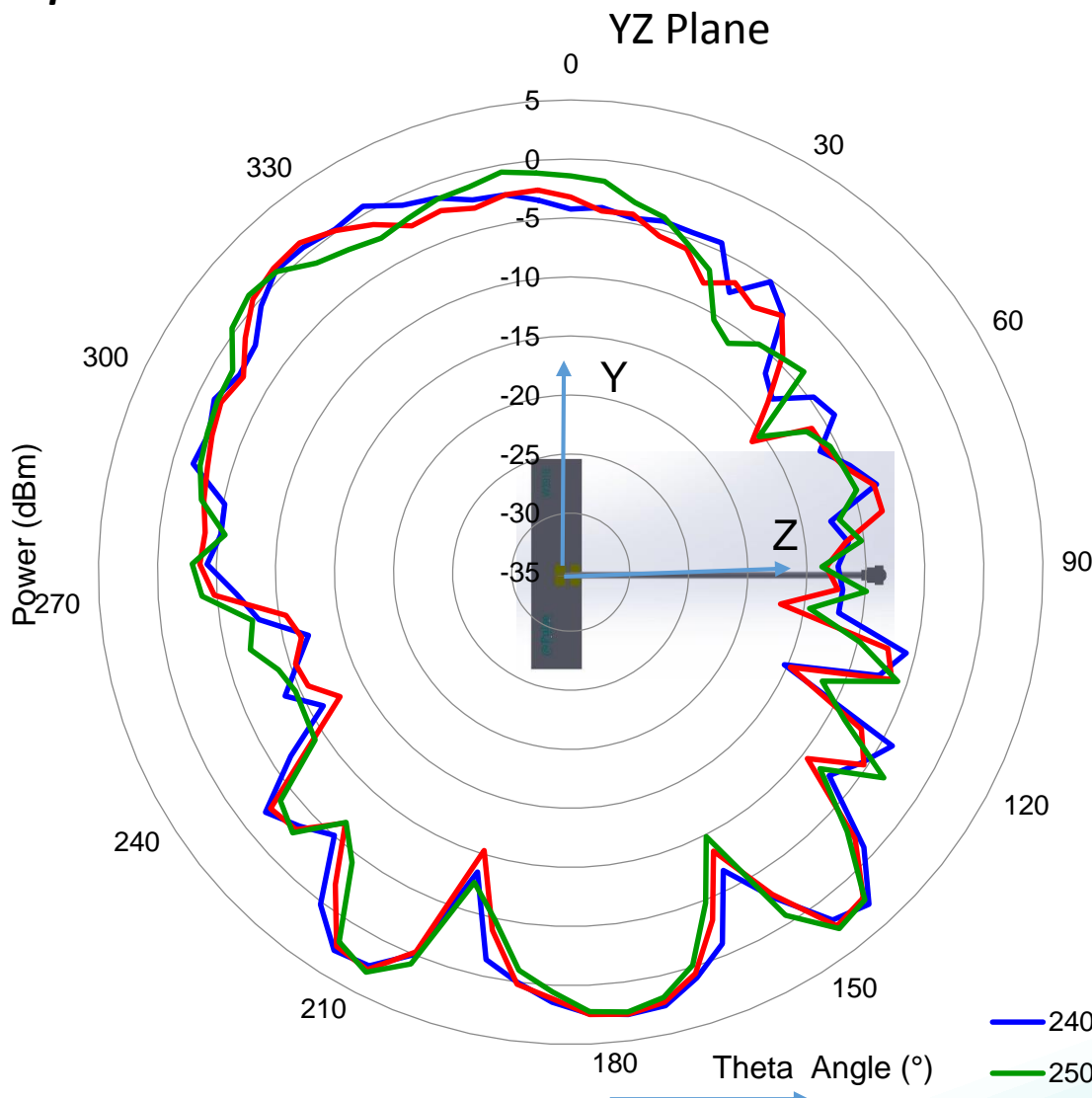
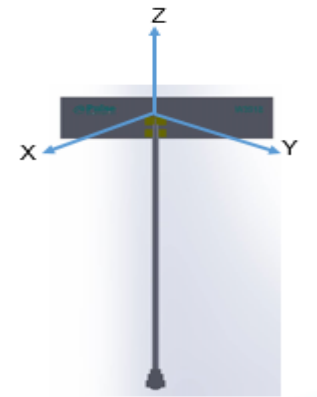
PART NUMBER: W3918XXXX

## CHARTS

Typical free space radiation pattern

WIFI2.4GHz

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



Avg (dBi) = -4.54  
Peak (dBi) = 2.80  
Avg -3 (deg) = 37.5

2450MHz  
Avg (dBi) = -5.12  
Peak (dBi) = 2.8  
Avg -3 (deg) = 32.5

2500MHz  
Avg (dBi) = -4.86  
Peak (dBi) = 3.05  
Avg -3 (deg) = 27.5

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## Description: 2.4/5GHz FPC antenna

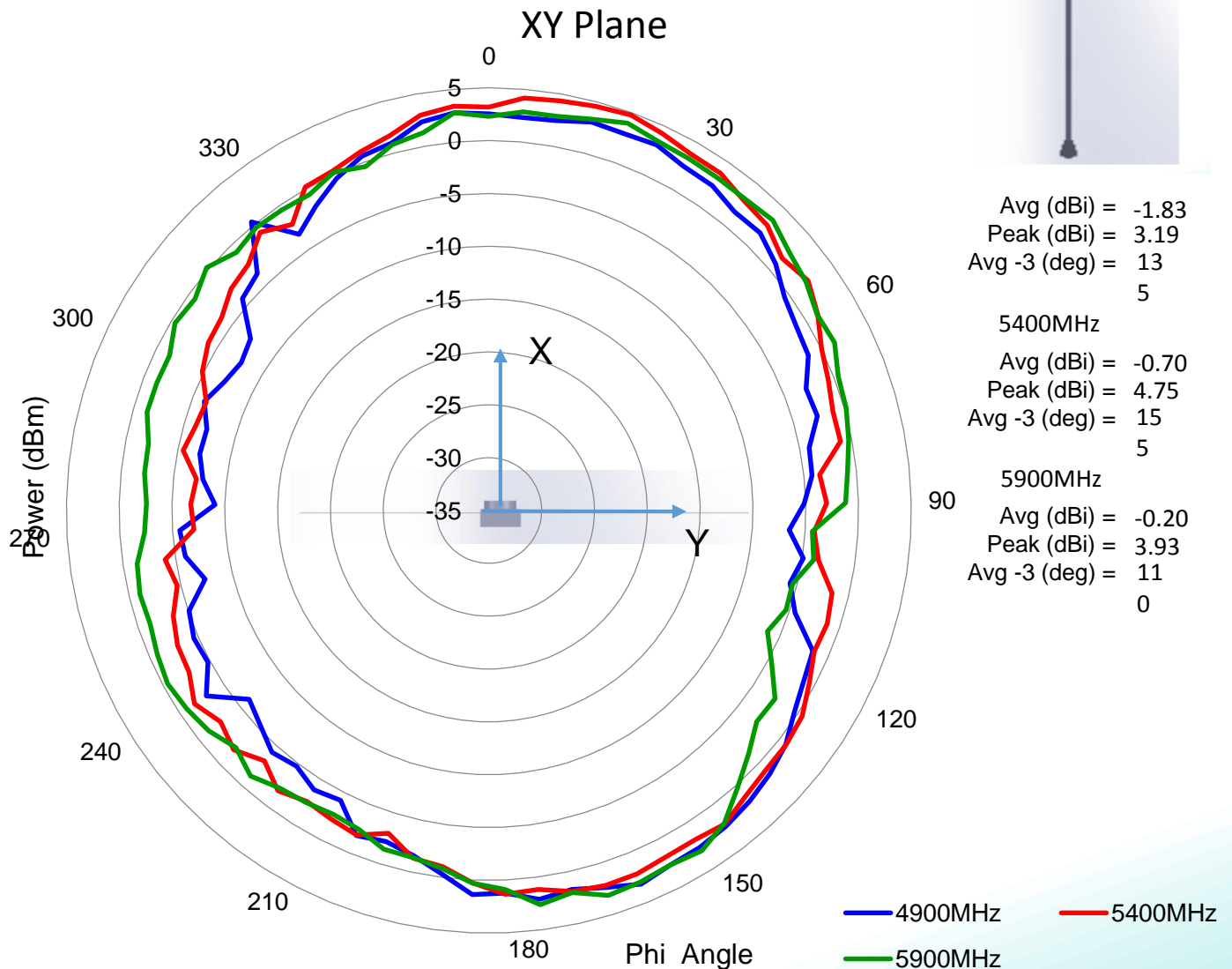
Series: Internal Antenna

PART NUMBER: W3918XXXX

### CHARTS

Typical free space radiation pattern  
WIFI 5GHz

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



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## Description: 2.4/5GHz FPC antenna

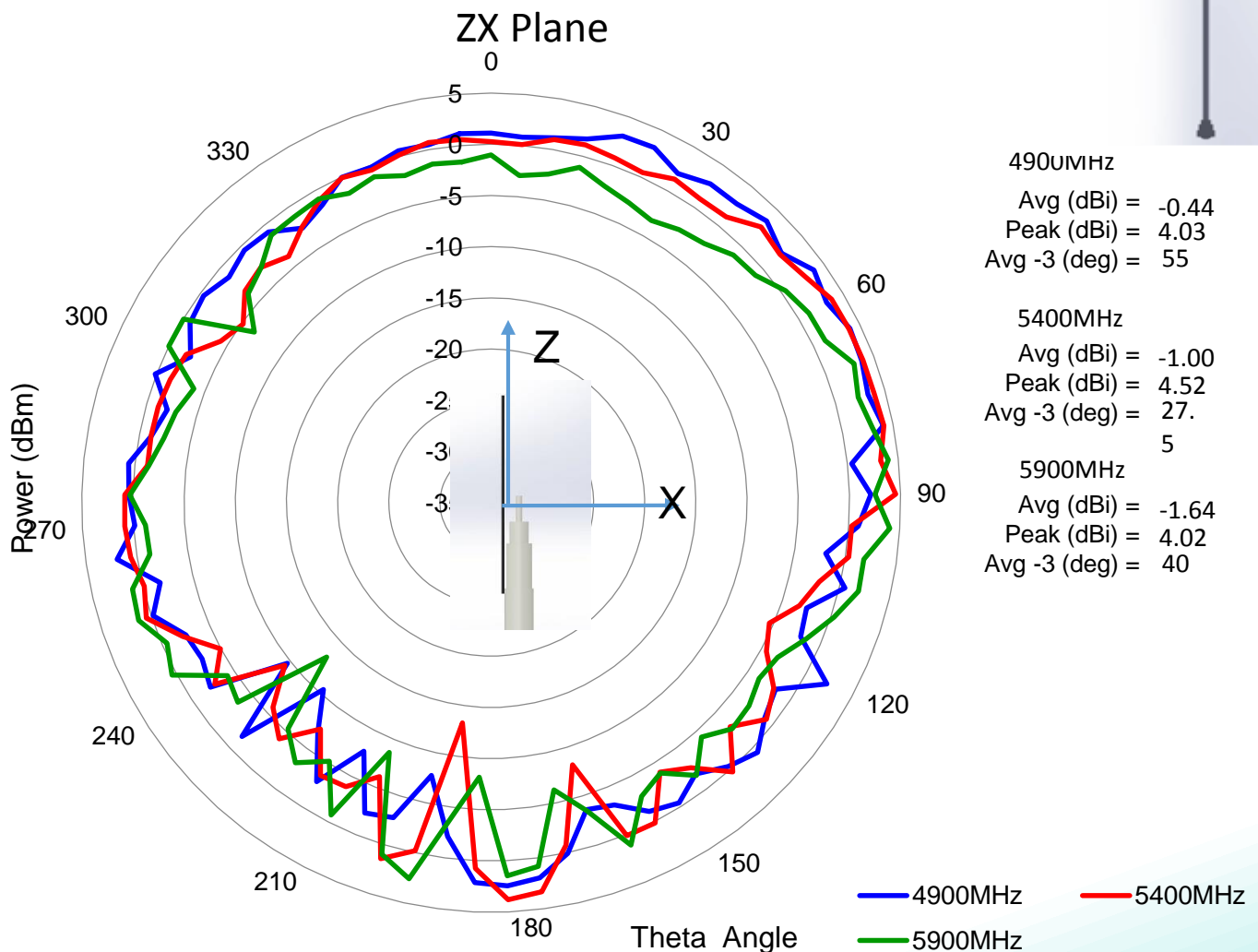
Series: Internal Antenna

PART NUMBER: W3918XXXX

### CHARTS

Typical free space radiation pattern  
WIFI 5GHz

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



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## Description: 2.4/5GHz FPC antenna

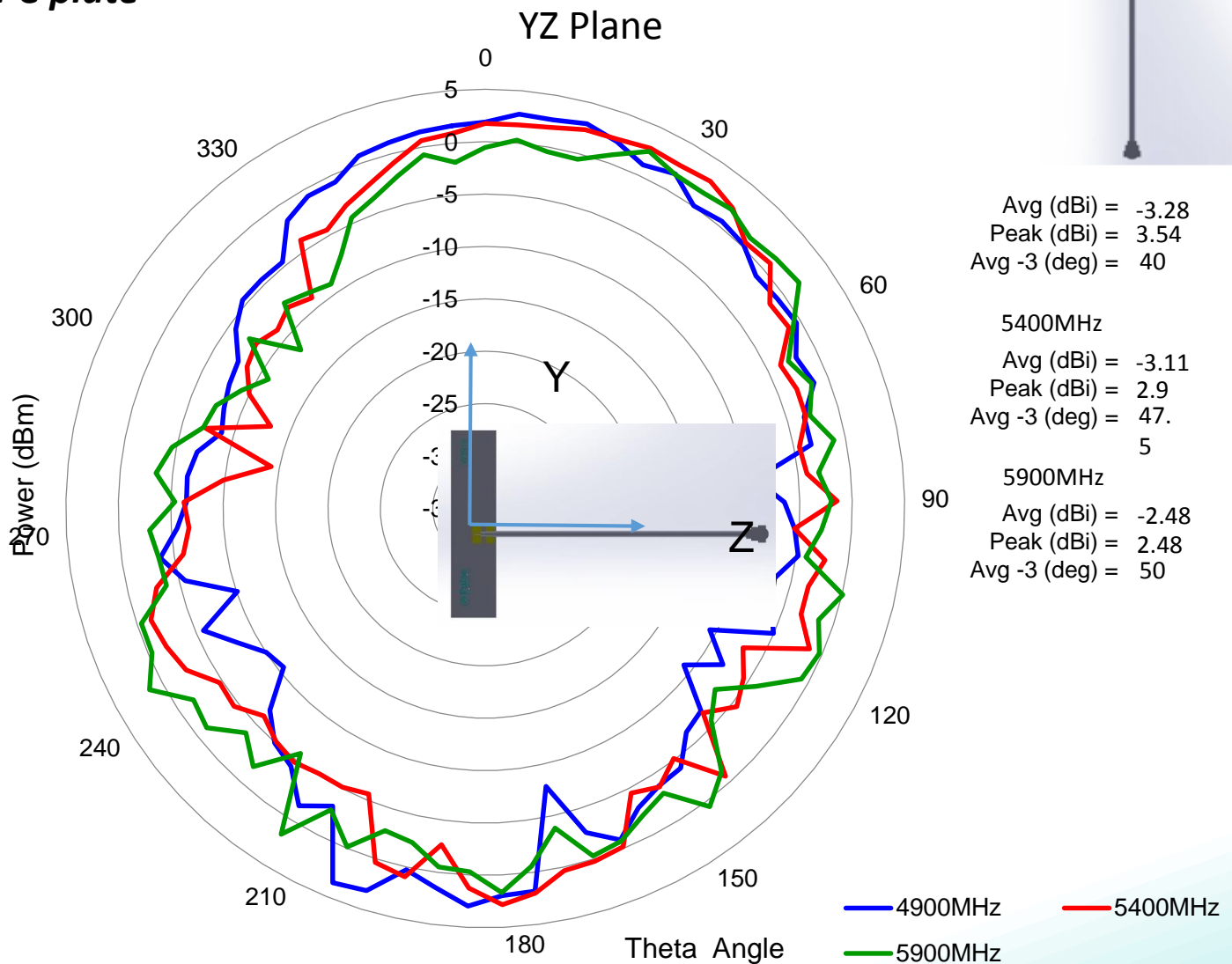
Series: Internal Antenna

PART NUMBER: W3918XXXX

### CHARTS

Typical free space radiation pattern  
WIFI 5GHz

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



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### Description: 2.4/5GHz FPC antenna

## Series: Internal Antenna

**PART NUMBER: W3918XXXX**

## PACKAGING

10PCS/PE bag

10 PE bag/foam bag

50 foam bag/ carton box

Total 5000PCS/Carton box



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