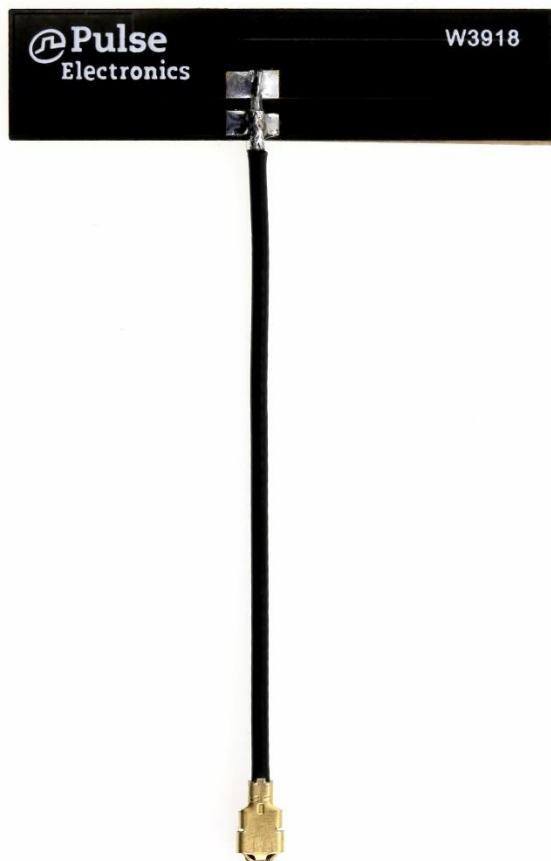


Description: 2.4/5GHz FPC antenna

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 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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15255 Innovation Drive #100
San Diego, CA 92128
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Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
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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



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

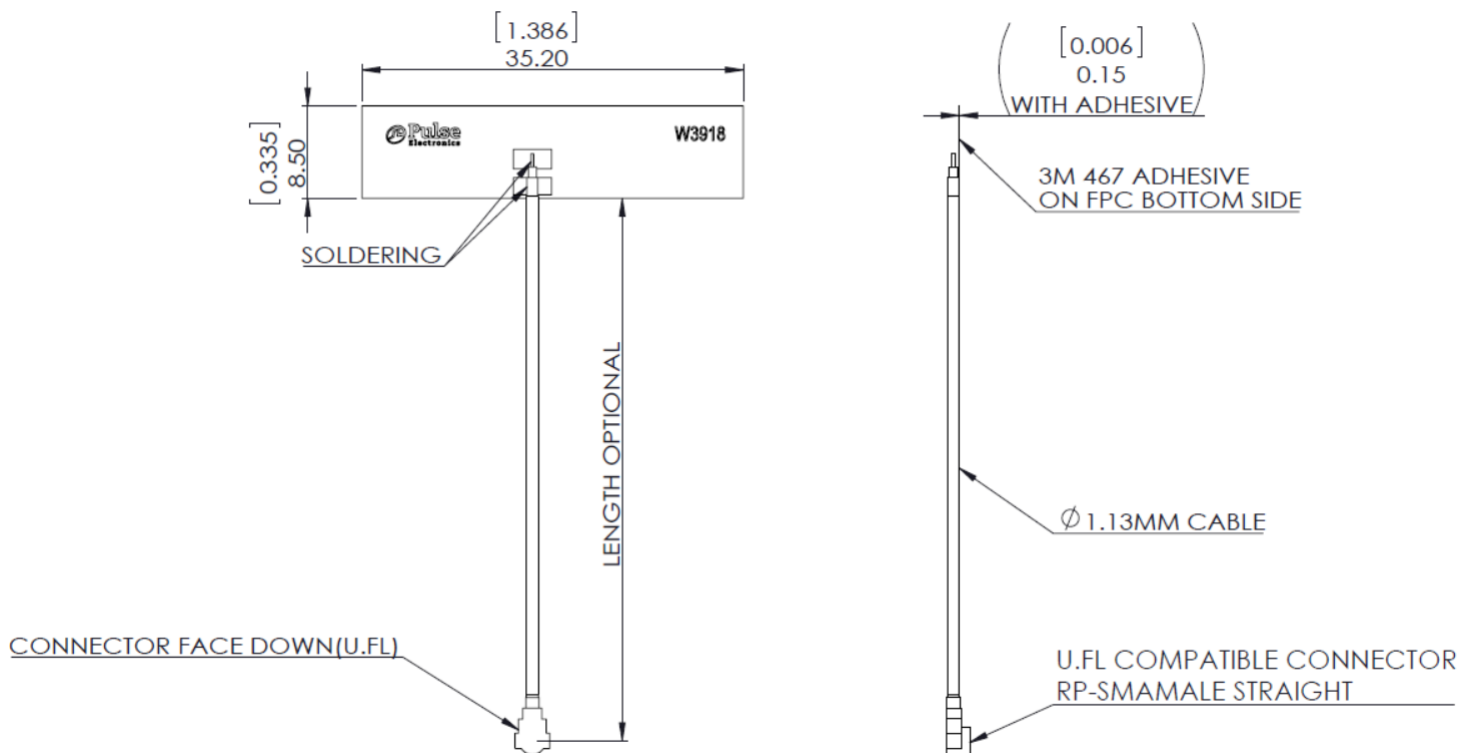
Operating temperature	-40/+85 ° C
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Description: 2.4/5GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918XXXX

MECHANICAL DRAWING



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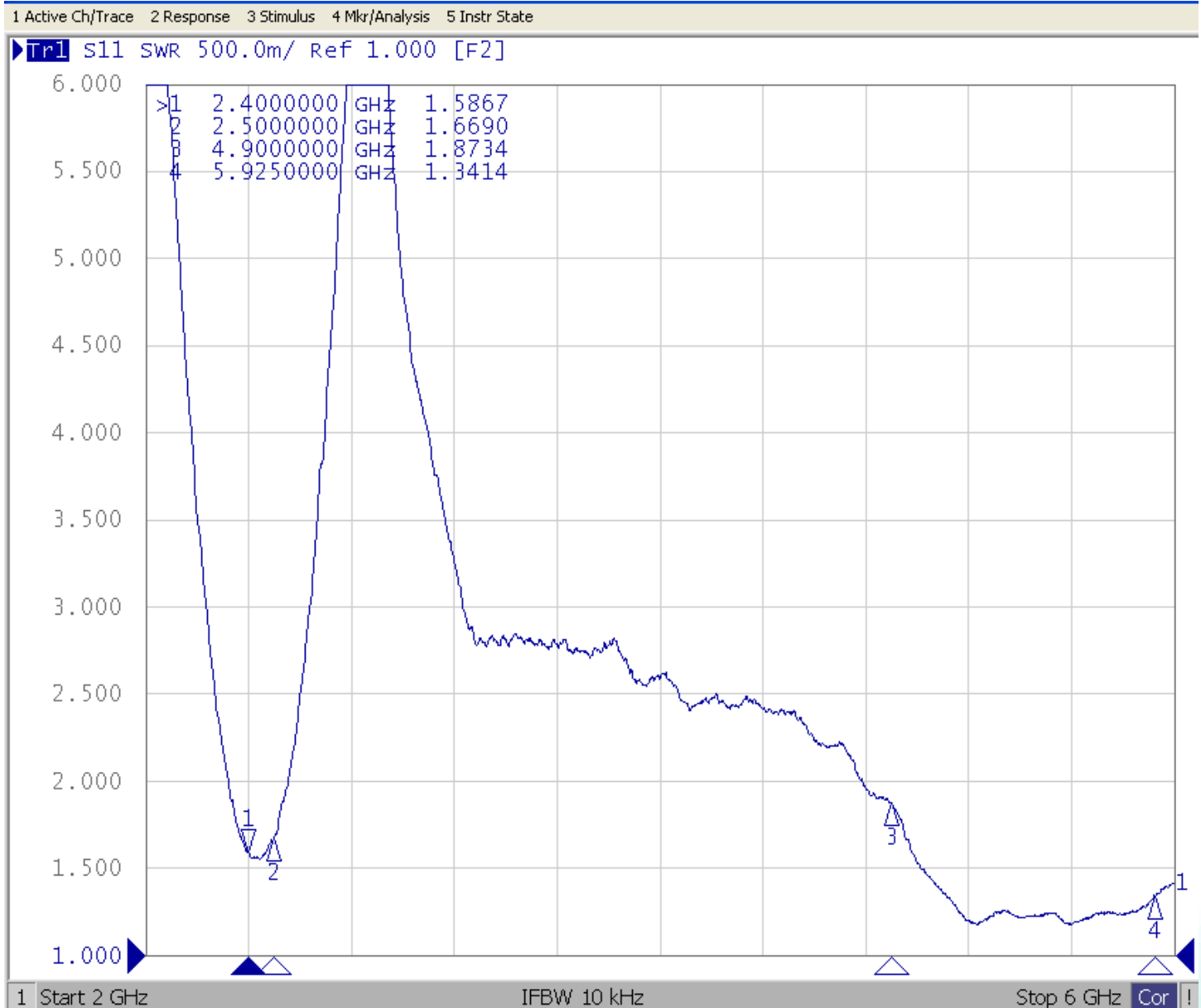
Description: 2.4/5GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918XXXX

CHARTS

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



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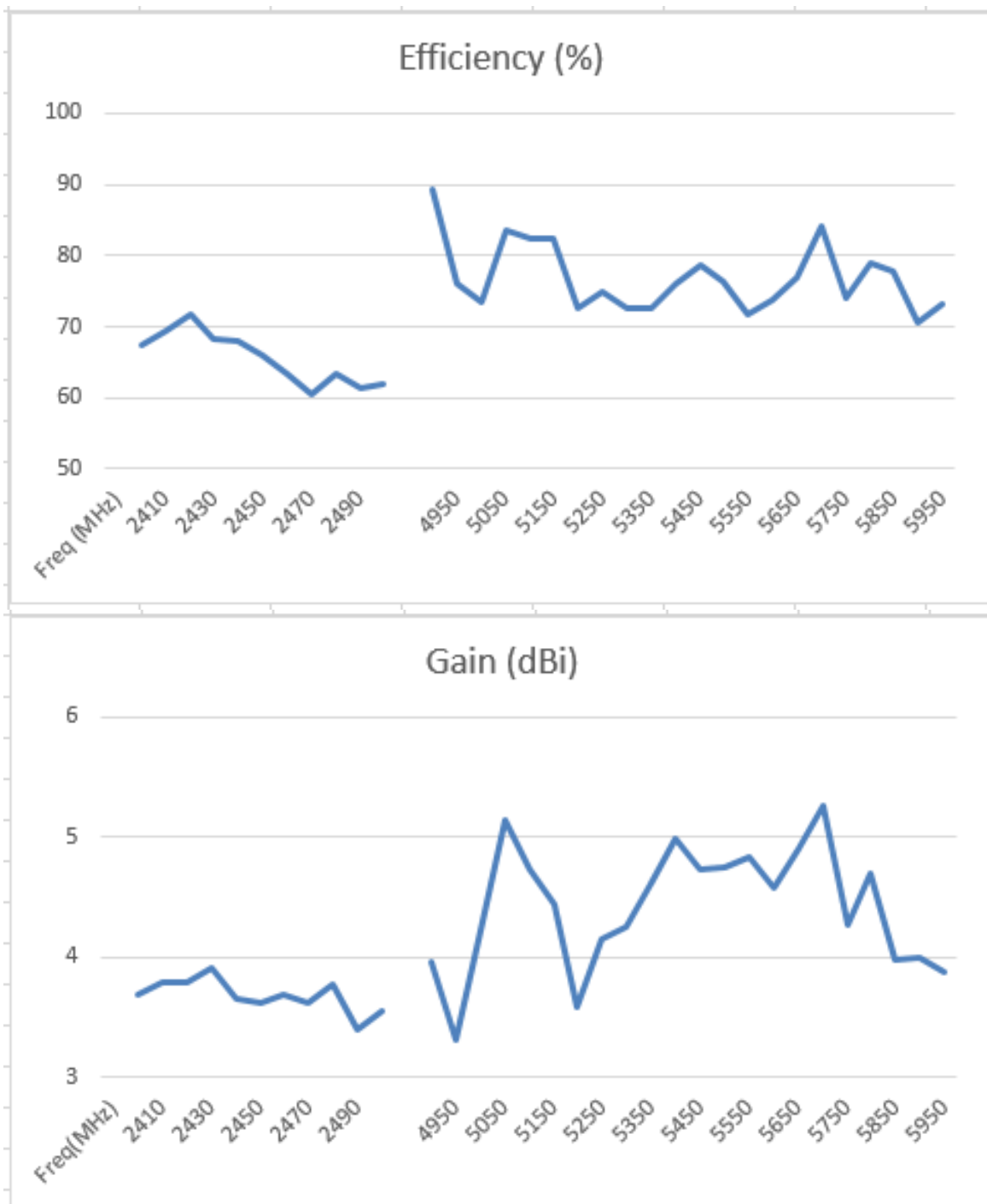
Description: 2.4/5GHz FPC antenna

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

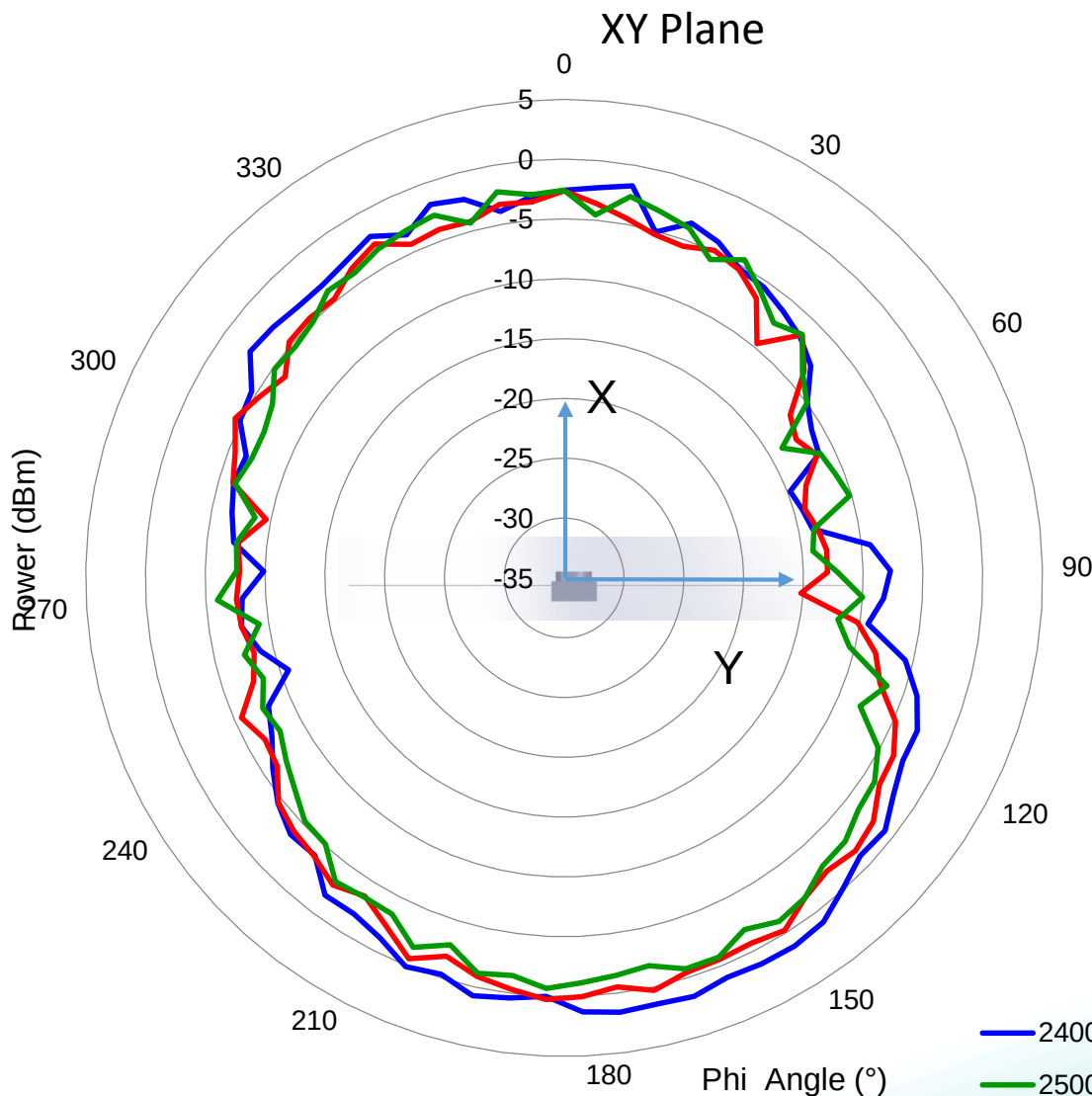
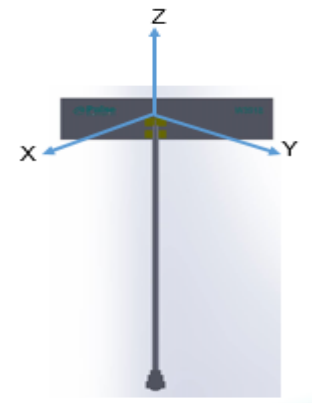
Series: Internal Antenna

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

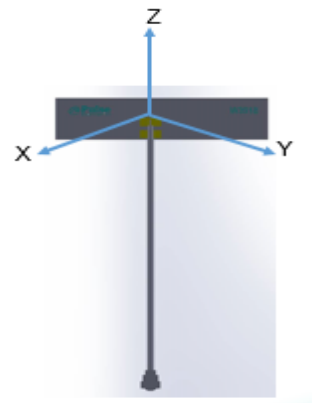
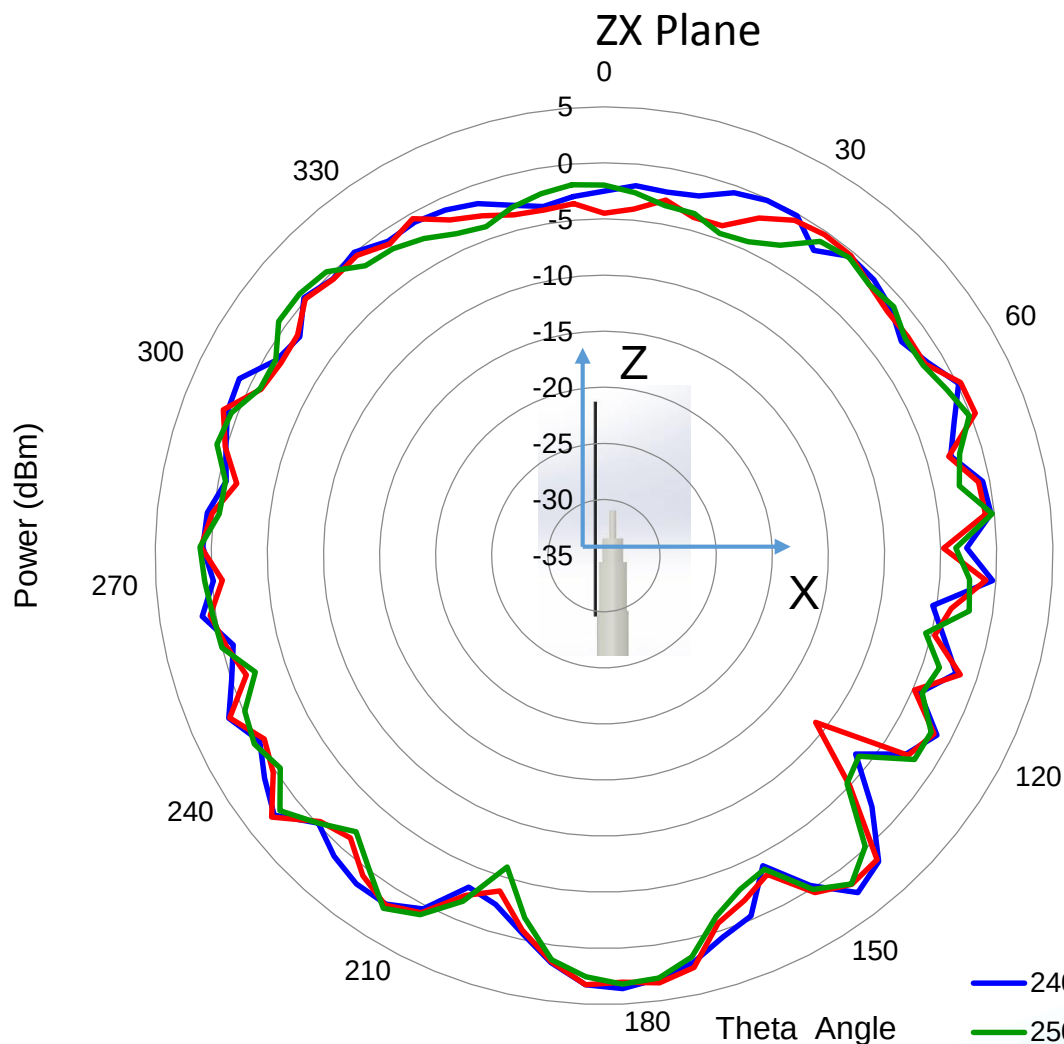
Series: Internal Antenna

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

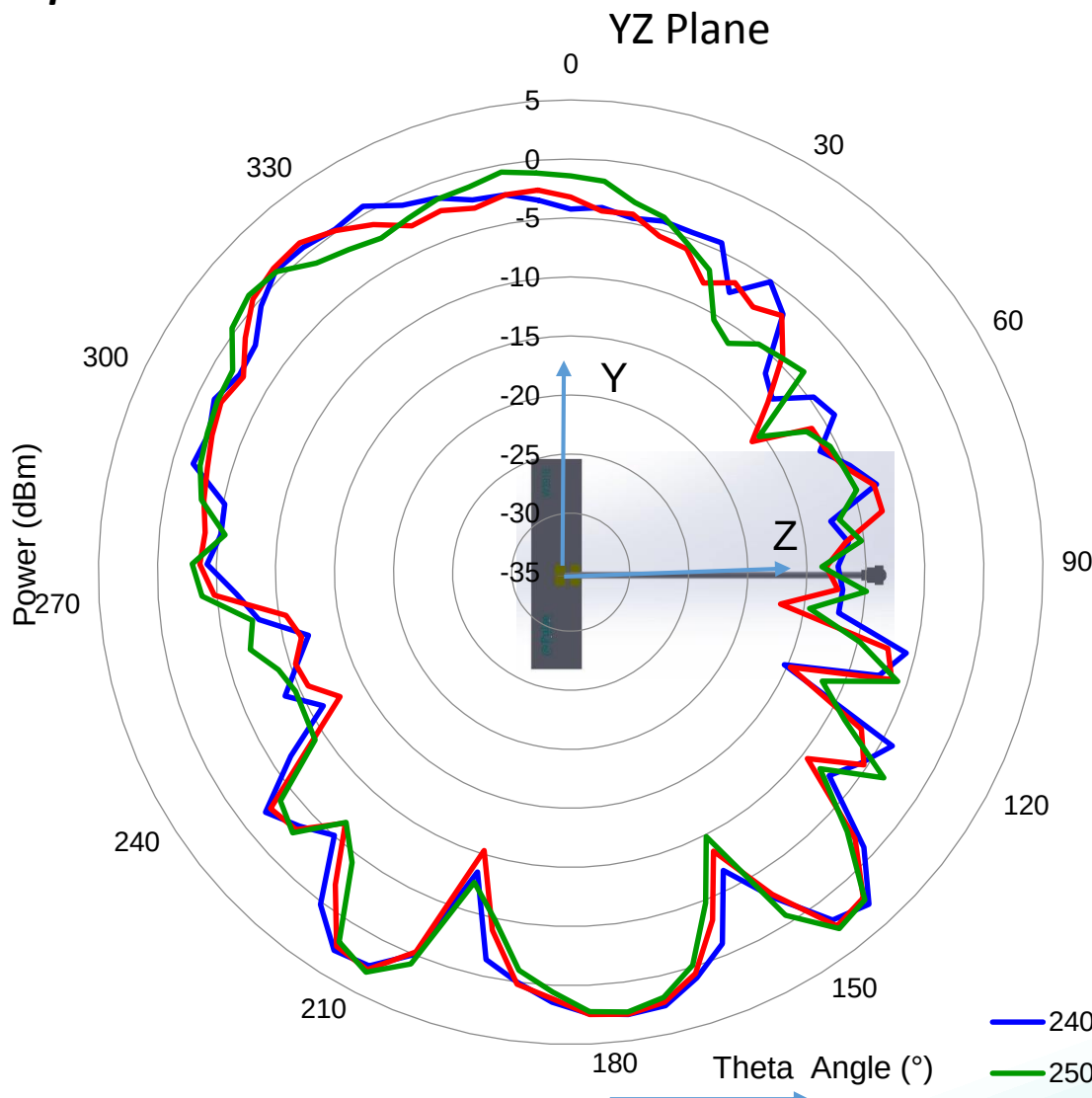
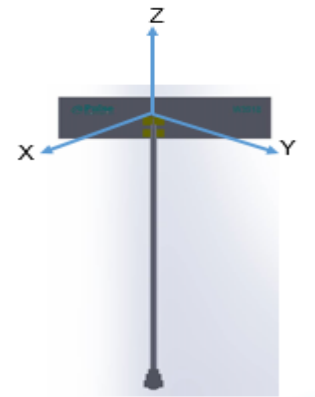
PART NUMBER: W3918XXXX

CHARTS

Typical free space radiation pattern

WIFI 2.4GHz

(*) 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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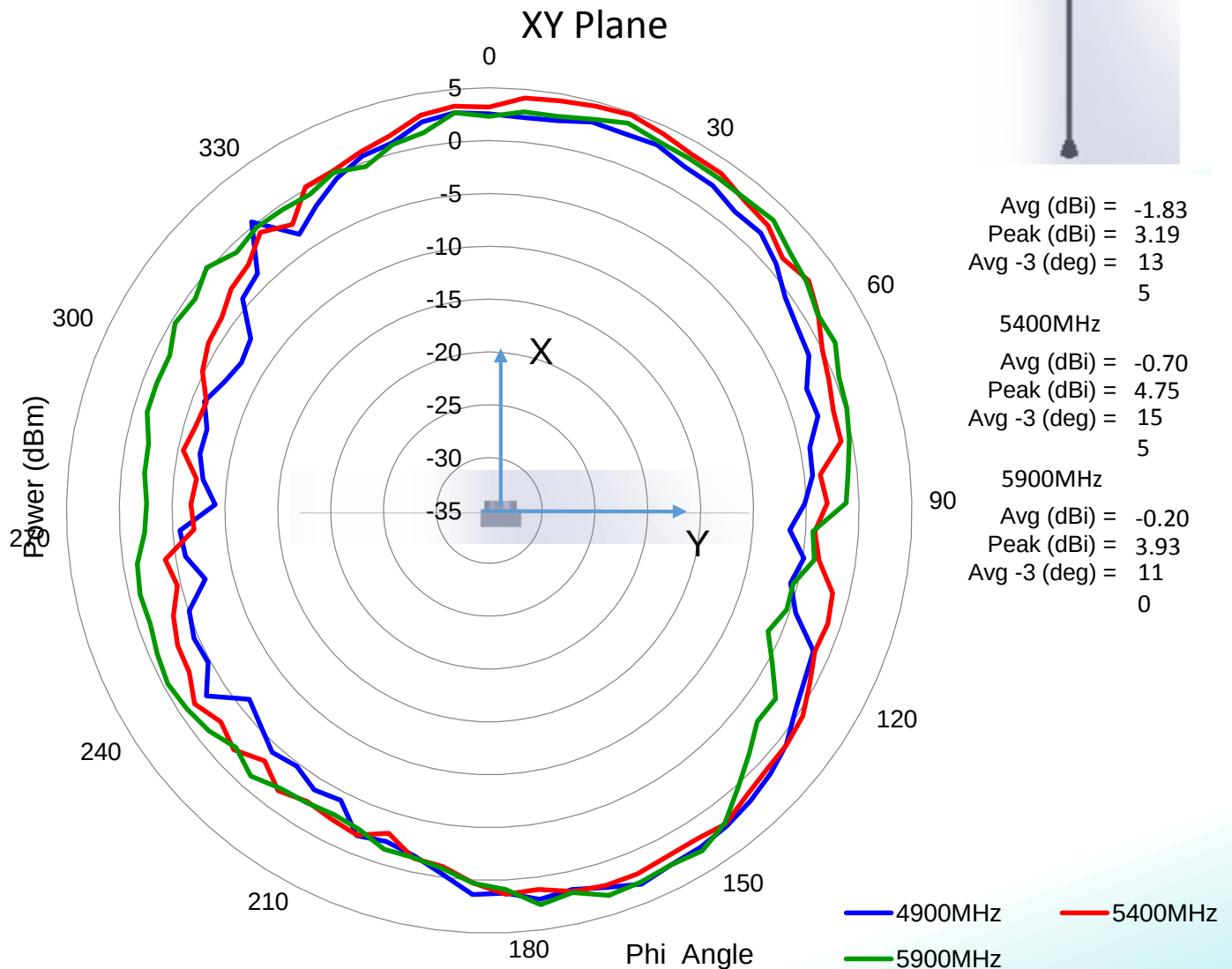
Series: Internal Antenna

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

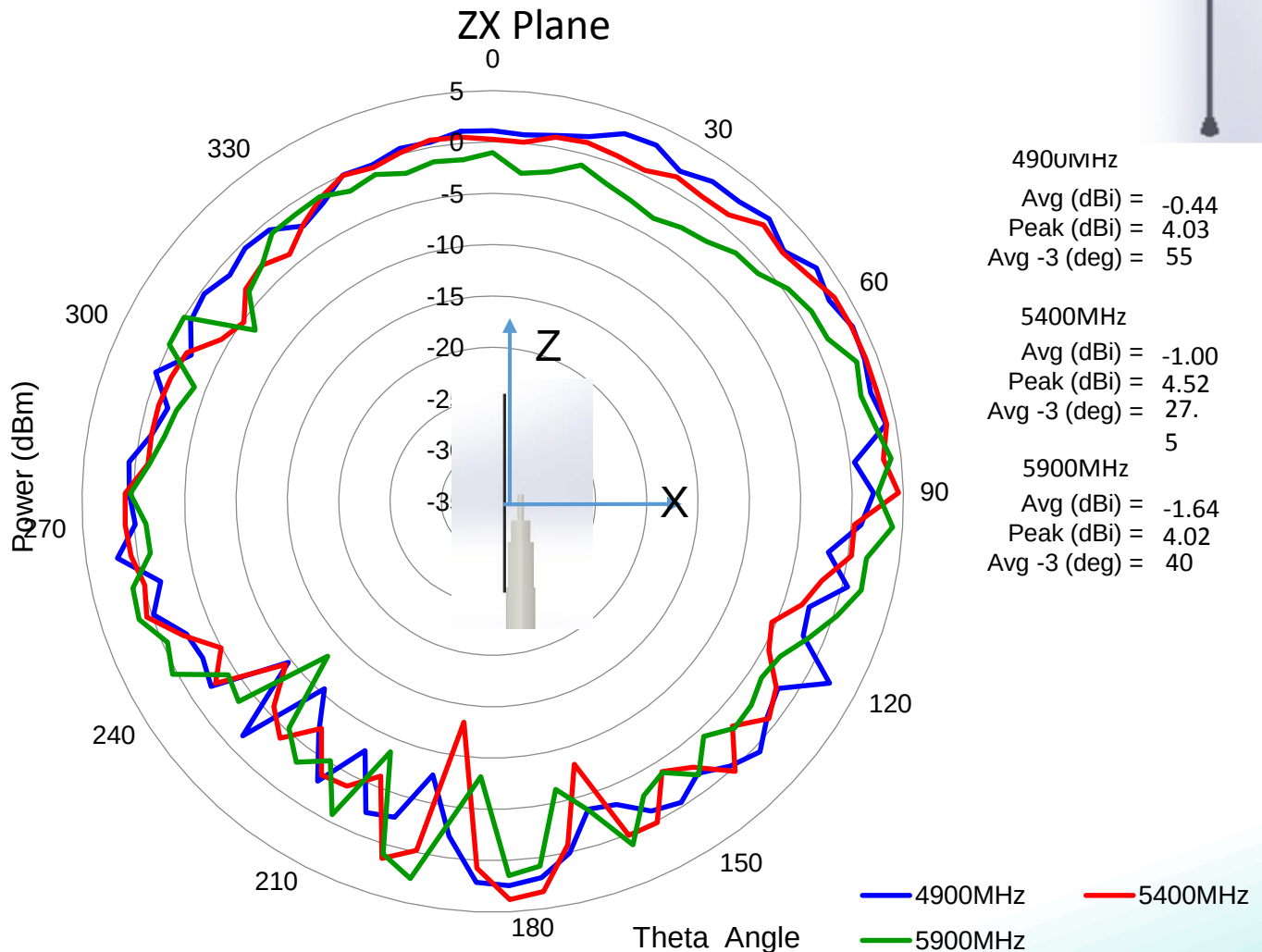
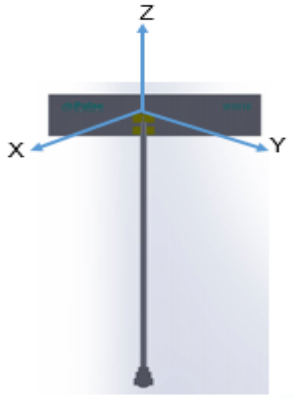
Series: Internal Antenna

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

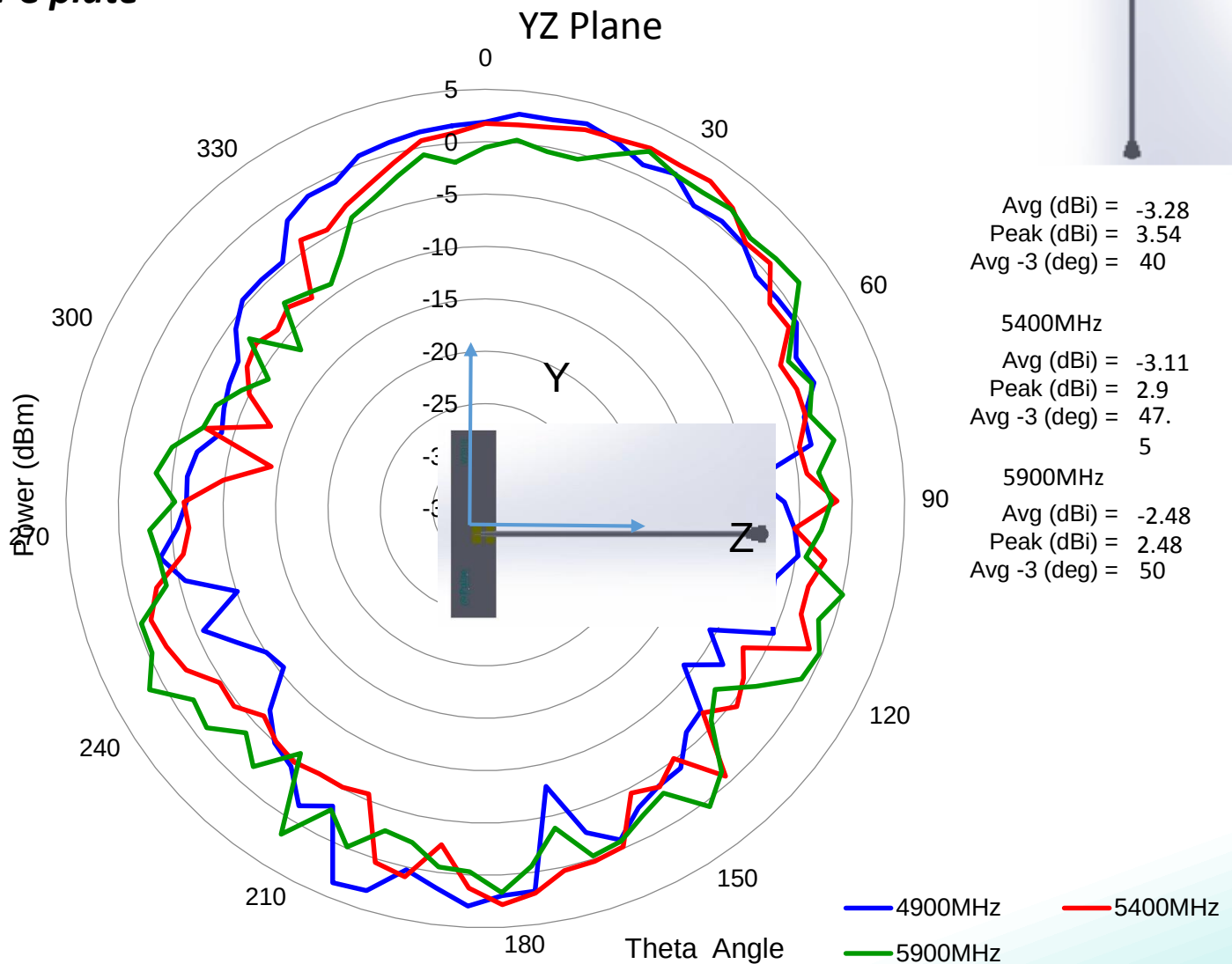
Series: Internal Antenna

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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