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TECHNICAL DATA SHEET

Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918BXXX



Features:

- 2400-2500 / 4900-7125 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 6E, 802.11ax
- Bluetooth, BLE, ZigBee
- DSRC
- ISM band radios
- IoT, M2M

All dimensions are in mm / inches

Issue: 2529

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PART NUMBER: W3918BXXX

ELECTRICAL SPECIFICATIONS

Antenna Type	PIFA
Frequency	2400-2500MHz 4900-7125MHz
Nominal Impedance	50 Ω
Return Loss	2400-2500MHz<-10db 4900-7125MHz<-6db
Radiation Pattern	Omni
Peak Gain	2.5+/-1dBi@2400-2500MHz 3.5+/-1dBi@4900-7125MHz
Efficiency	65%@2400-2500MHz 65%@4900-7125MHz
Polarization	Linear
Power Withstanding	5W

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

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MECHANICAL SPECIFICATIONS

Radiator material	FPC
Color	Black
Adhesive	3M467
Thickness(with adhesive, no liner)	0.15mm
Weight	0.32g
FPC size(L X W X T)	35.2 X 8.5 X 0.15mm

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C
RoHS Compliant	Yes
CE / UKCA Compliant	Yes

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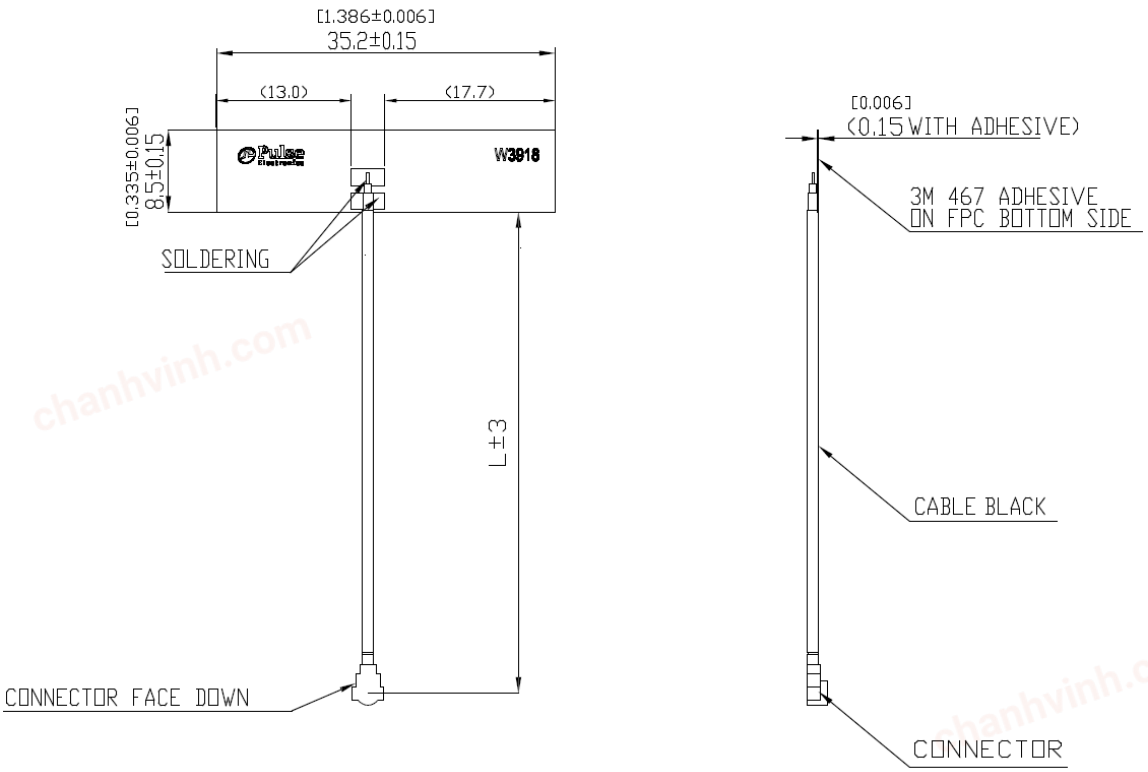
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MECHANICAL DRAWING



PN	CABLE BLACK	CONNECTOR	L=CABLE LENGTH(MM)
W3918B0050	1.13	U.FL COMPATIBLE CONNECTOR	50
W3918B065			65
W3918B075			75
W3918B0100			100
W3918B120			120
W3918B140			140
W3918B0150			150
W3918B0200			200
W3918BE0050	1.37	MHF4L WITH LOCK CONNECTOR OR EQUAL	50
W3918BE0070			70
W3918BE0080			80

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RoHS COMPLIANT

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TECHNICAL DATA SHEET

Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918BXXX

CHARTS

Test Setup



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

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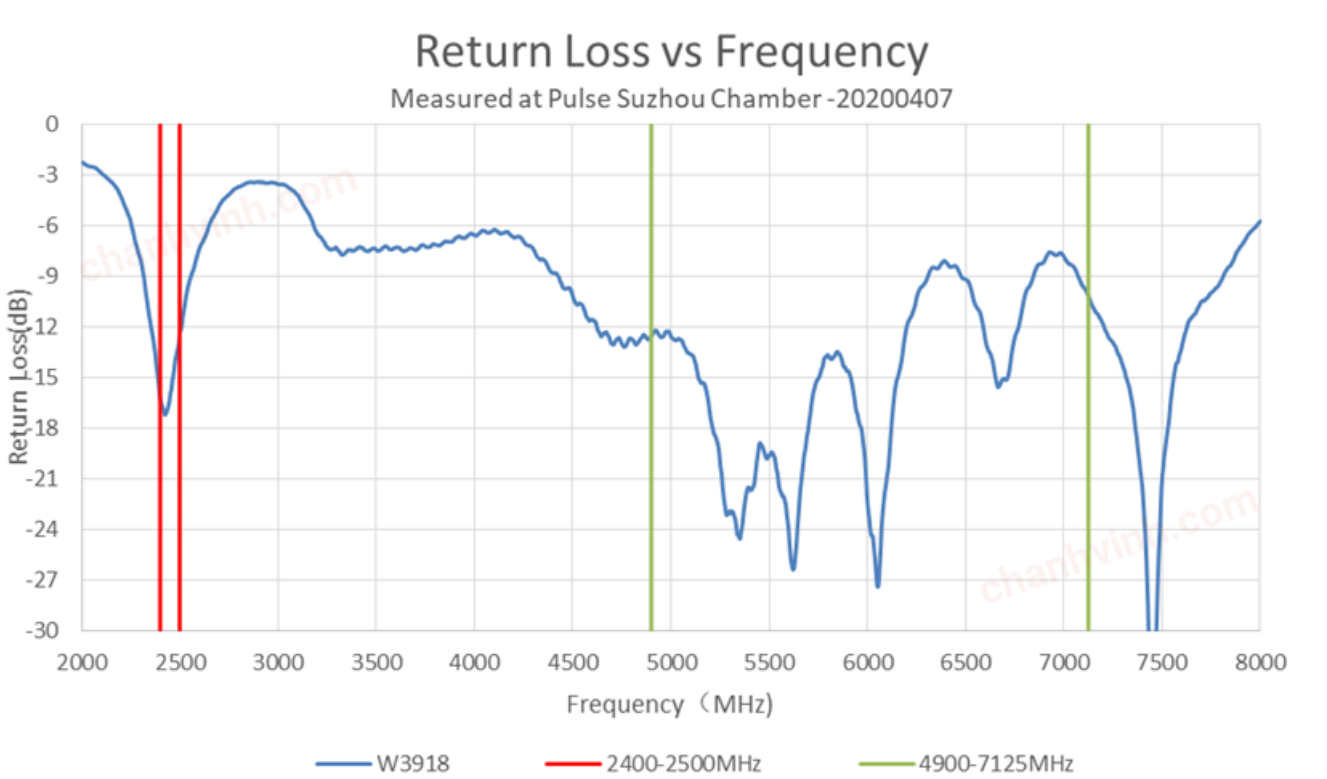
Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918BXXX

CHARTS

Return Loss



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

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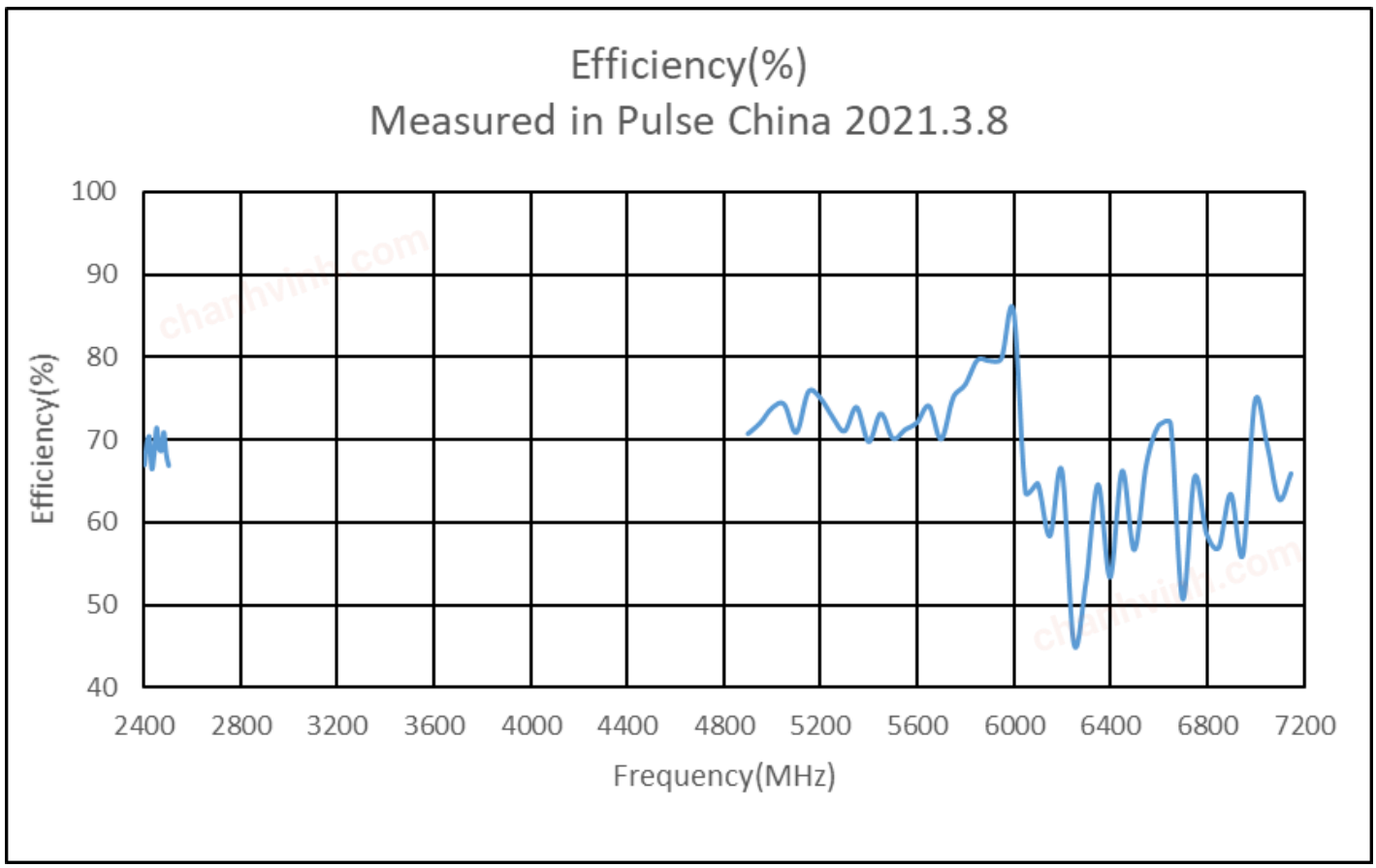
Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918BXXX

CHARTS

Efficiency



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

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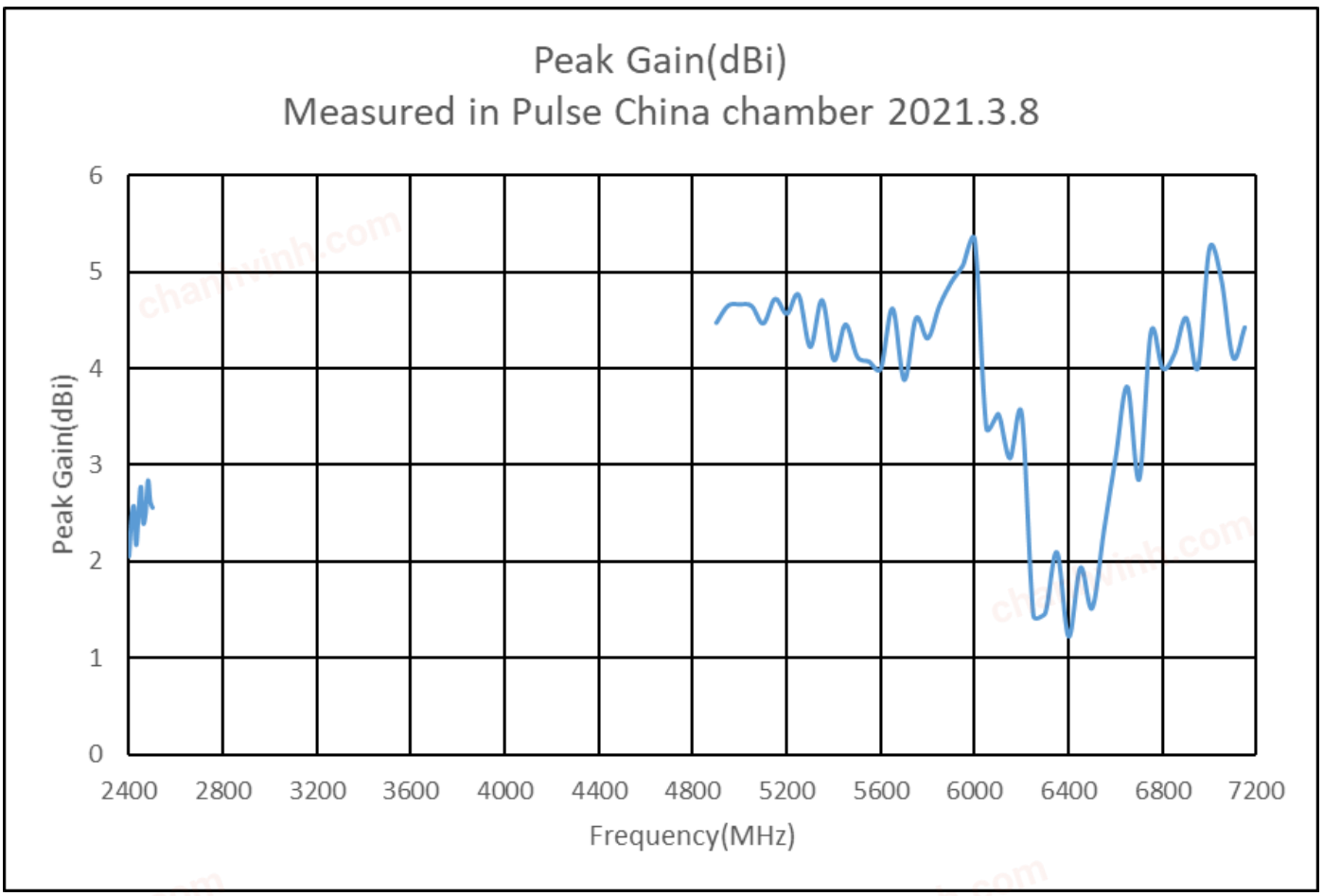
Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918BXXX

CHARTS

Peak Gain



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

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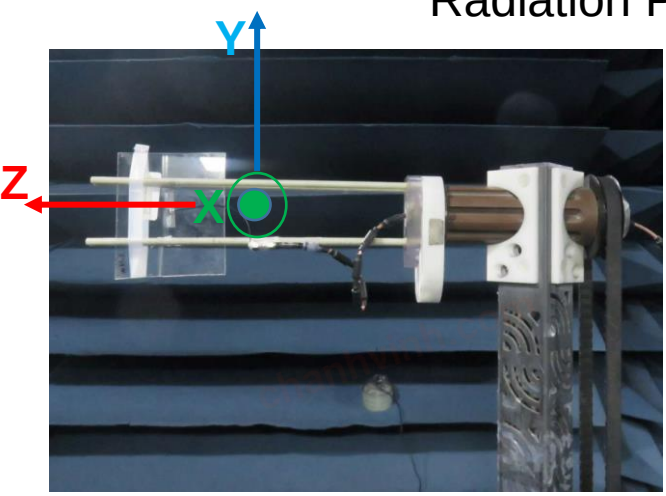
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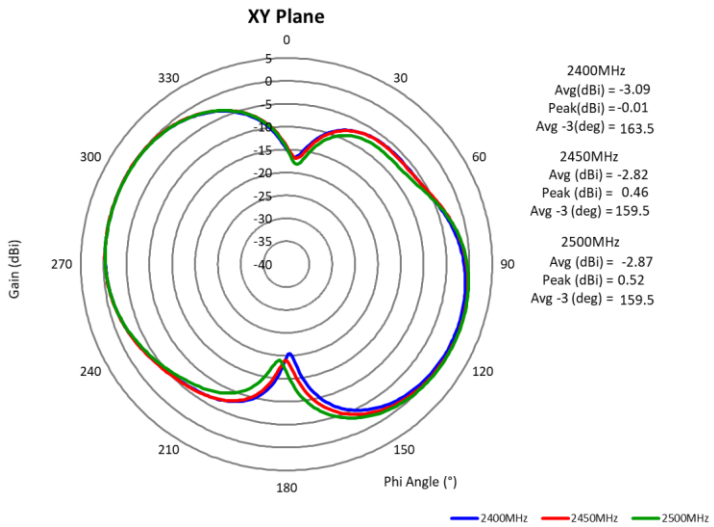
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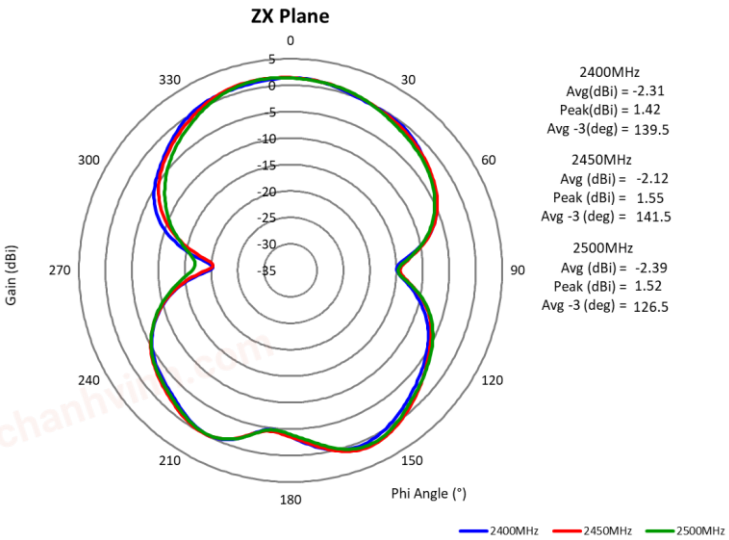
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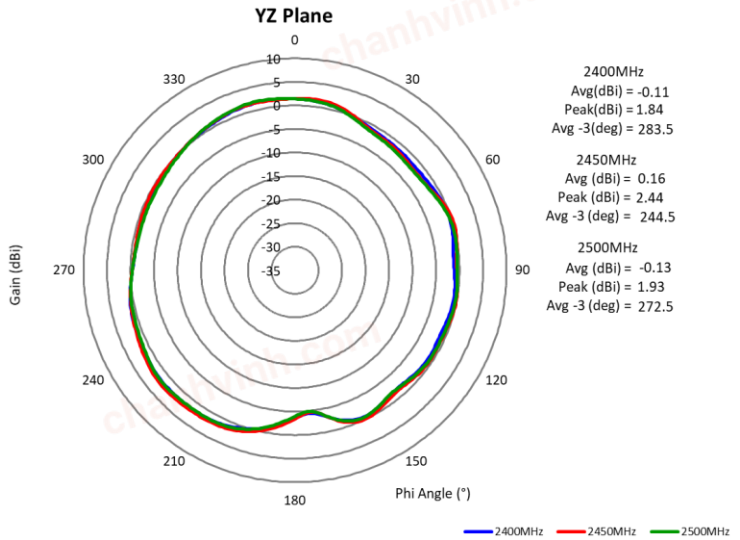
CHARTS

Radiation Patterns 2400-2500MHz









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

Issue: 2529

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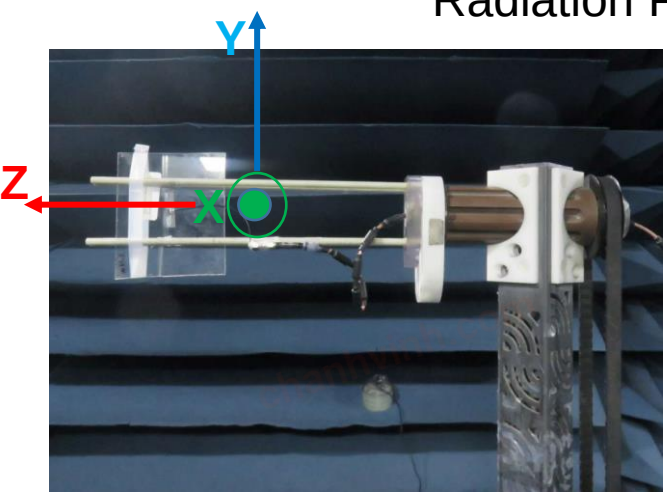
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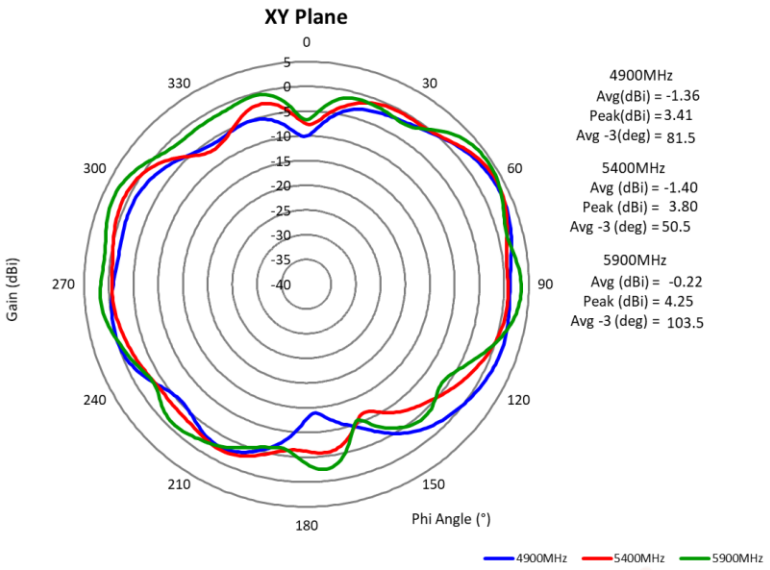
Series: Internal Antenna

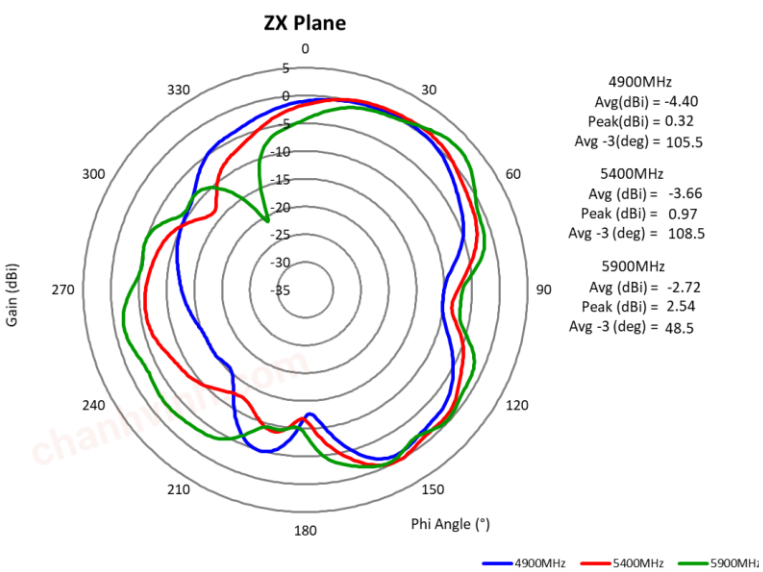
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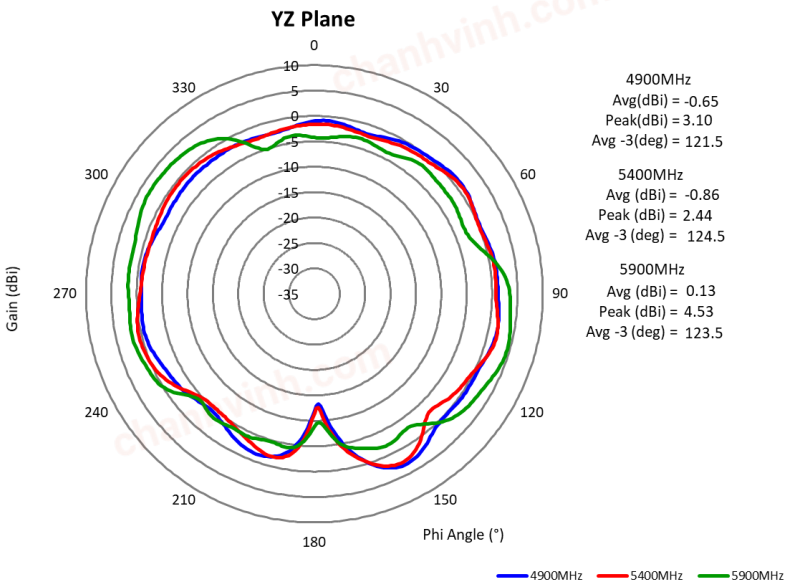
CHARTS

Radiation Patterns 4900-5900MHz









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

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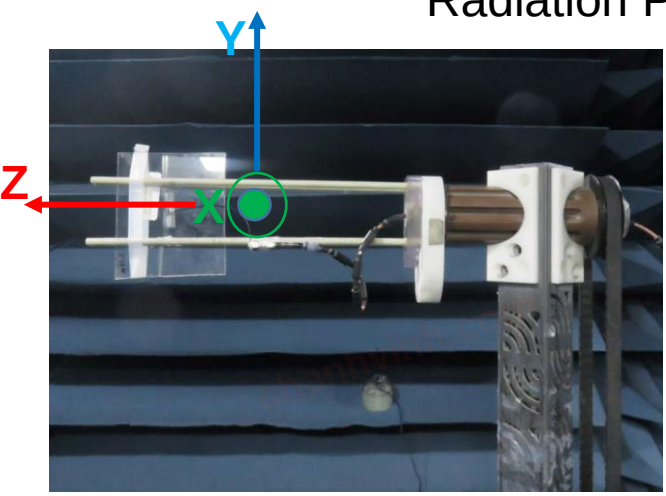
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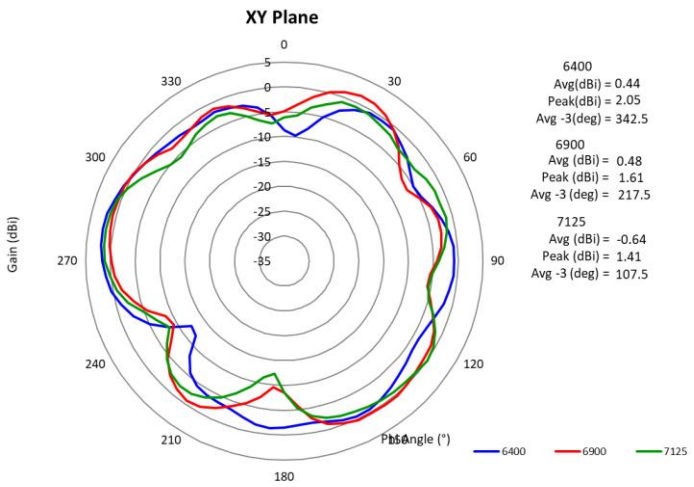
Series: Internal Antenna

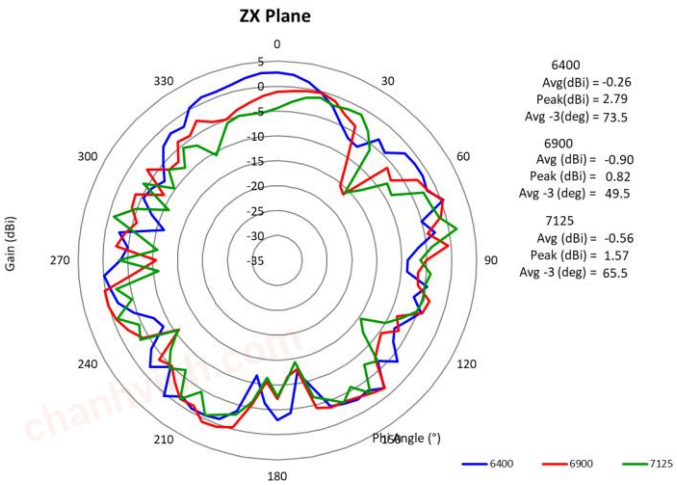
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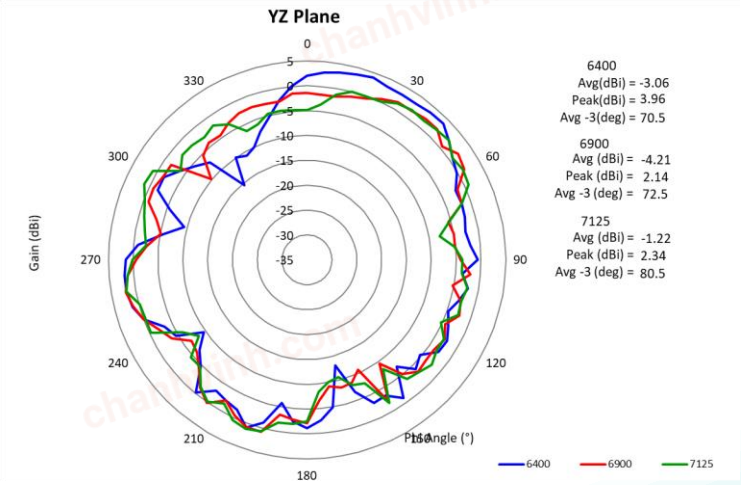
CHARTS

Radiation Patterns 6000-7125MHz









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TECHNICAL DATA SHEET

Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3918BXXX

PACKAGING

10PCS/PE bag
10 PE bag/foam bag
12 foam bag/ carton box

Total 1200PCS/Carton box





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