

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

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**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

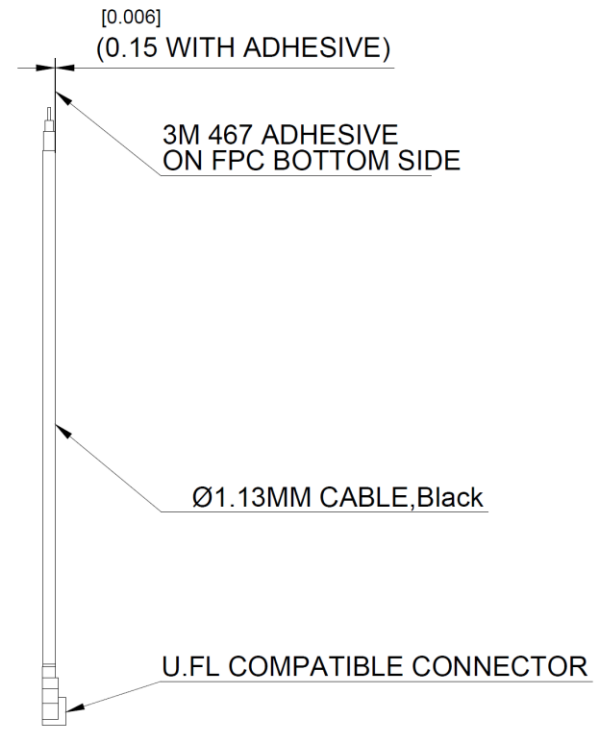
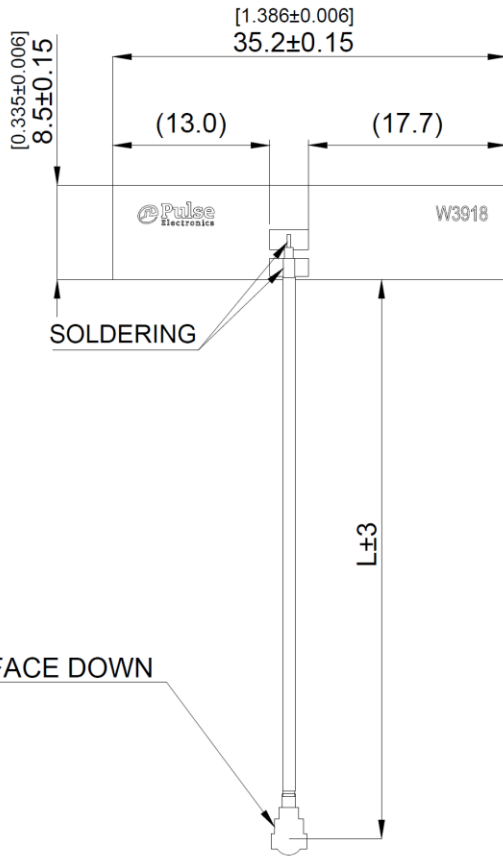
Operating temperature	-40/+85 ° C
RoHS Compliant	Yes
CE / UKCA Compliant	Yes

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**MECHANICAL DRAWING**



PN	L=CABLE LENGTH(MM)
W3918B0050	50
W3918B065	65
W3918B075	75
W3918B0100	100
W3918B120	120
W3918B140	140
W3918B0150	150
W3918B0200	200

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## CHARTS

### Test Setup



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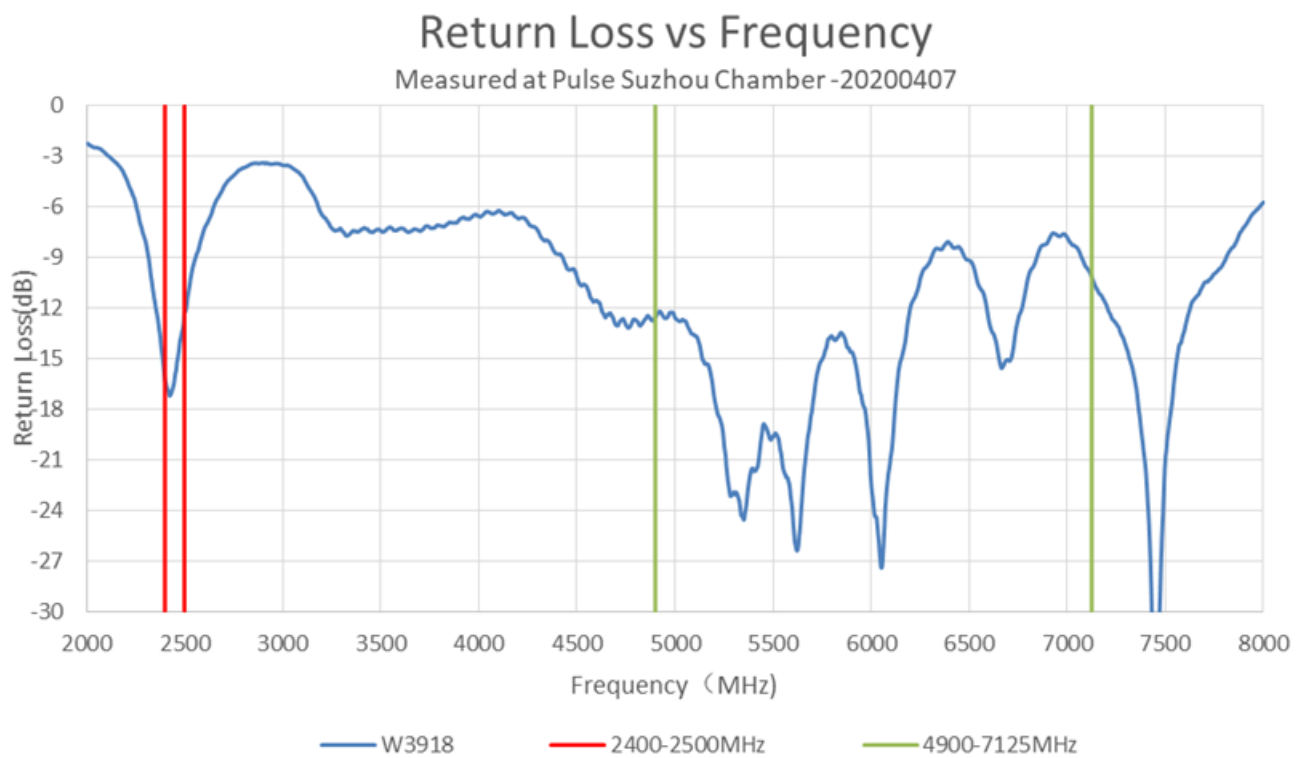
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CHARTS

Return Loss



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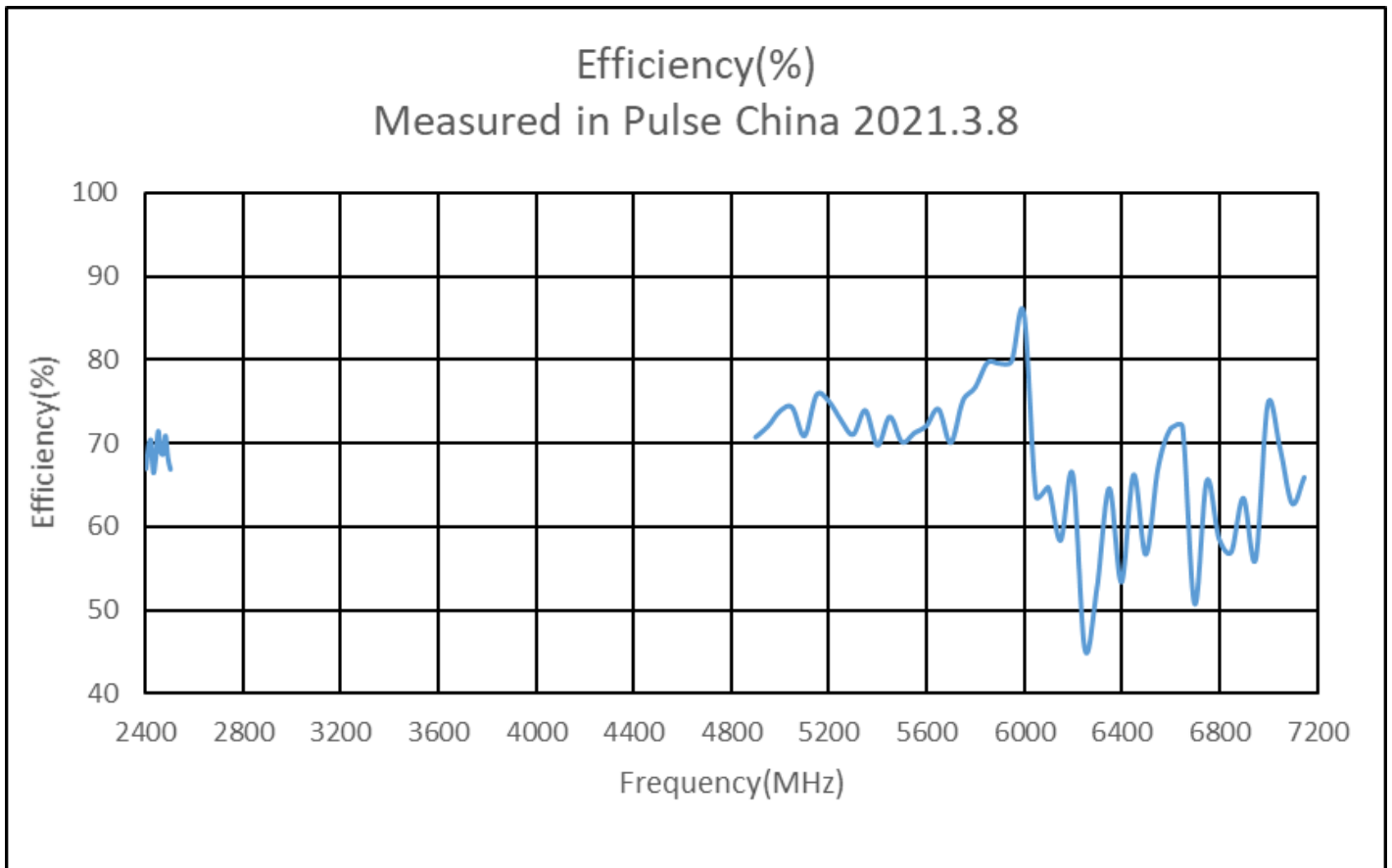
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CHARTS

Efficiency



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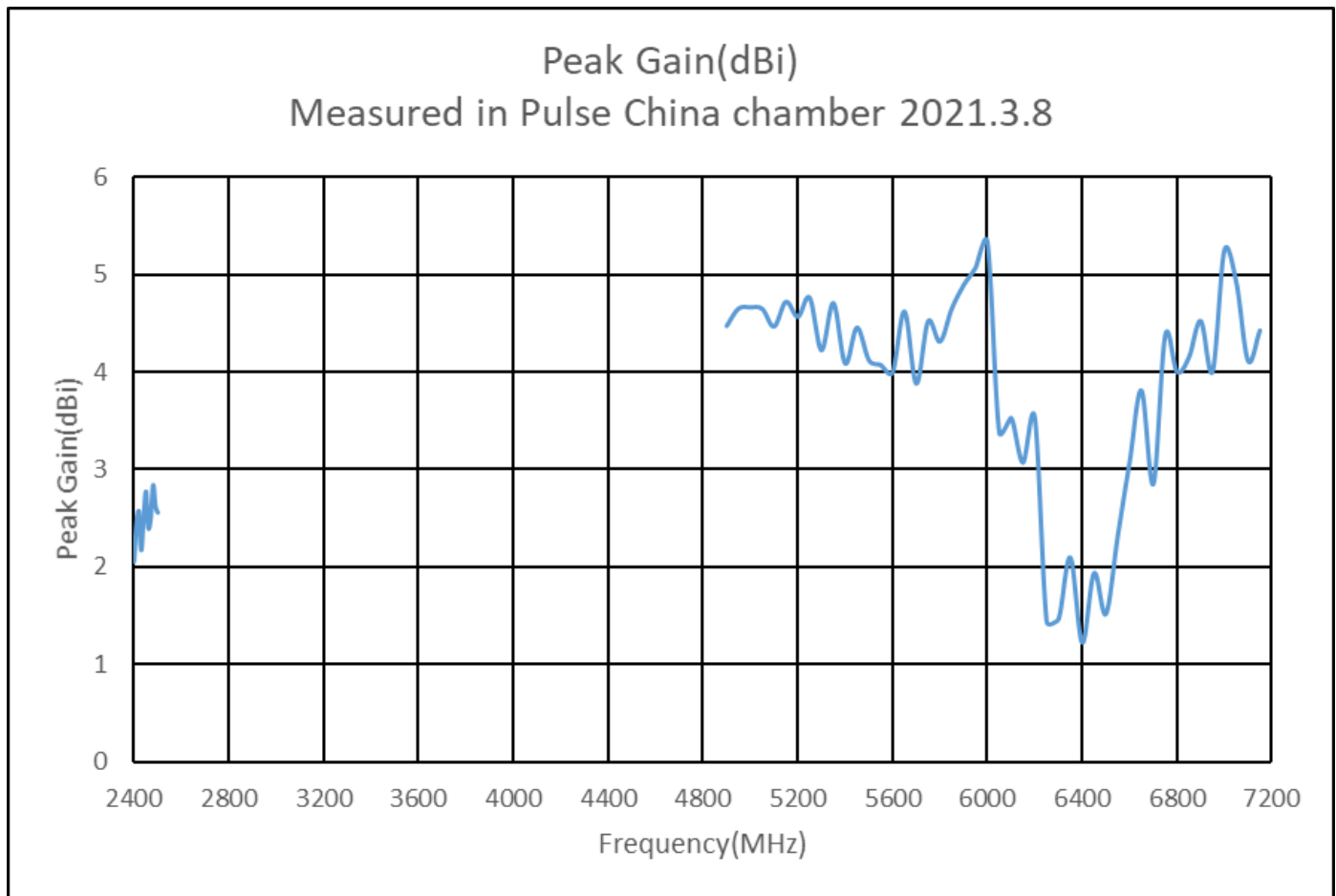
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CHARTS

Peak Gain



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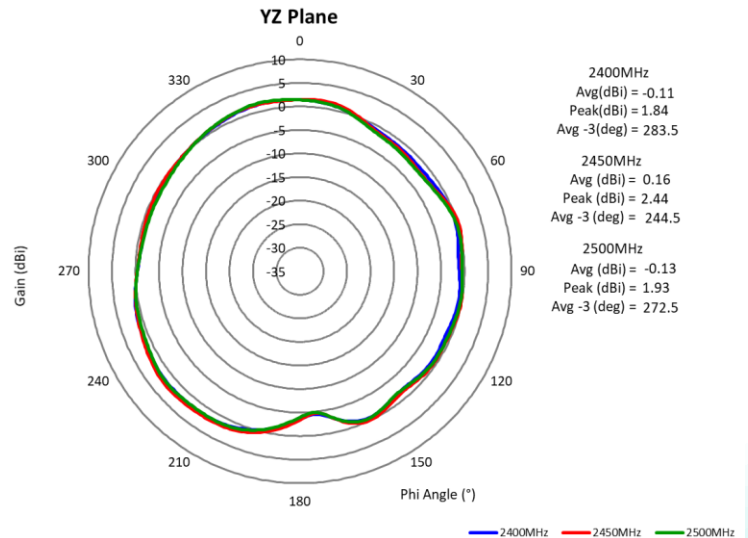
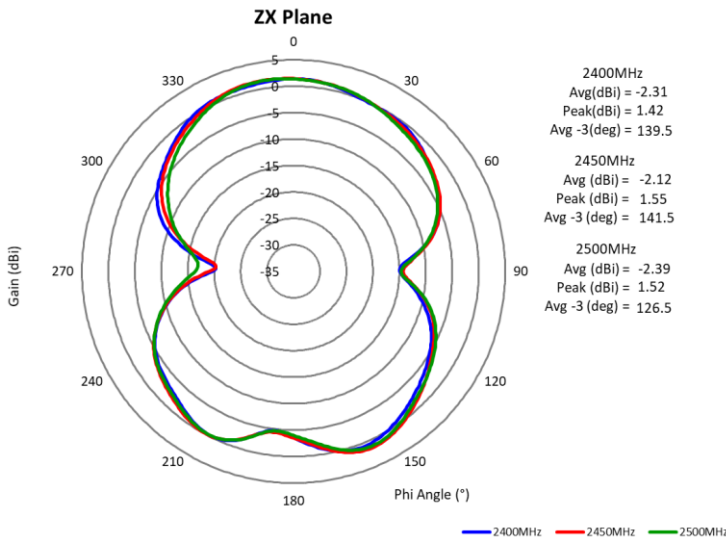
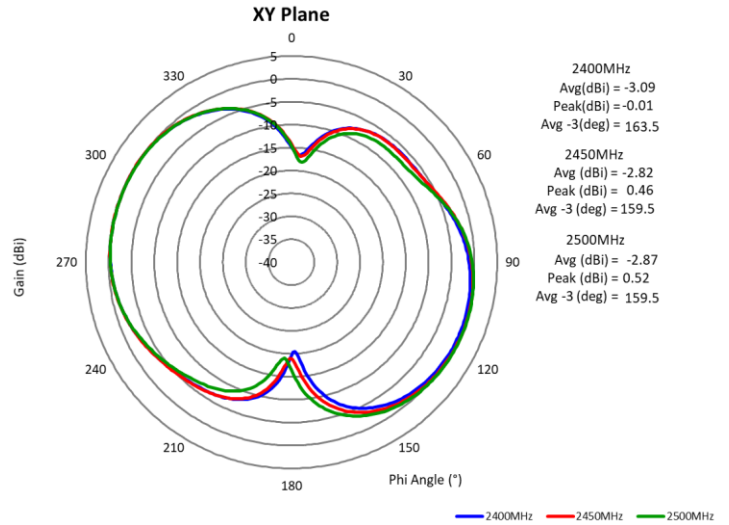
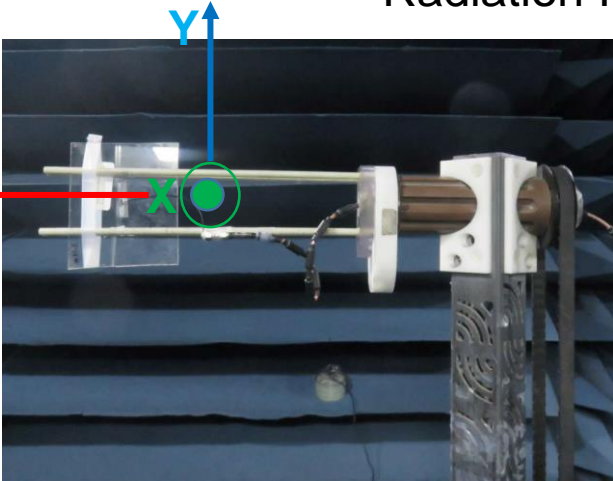
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CHARTS

Radiation Patterns 2400-2500MHz



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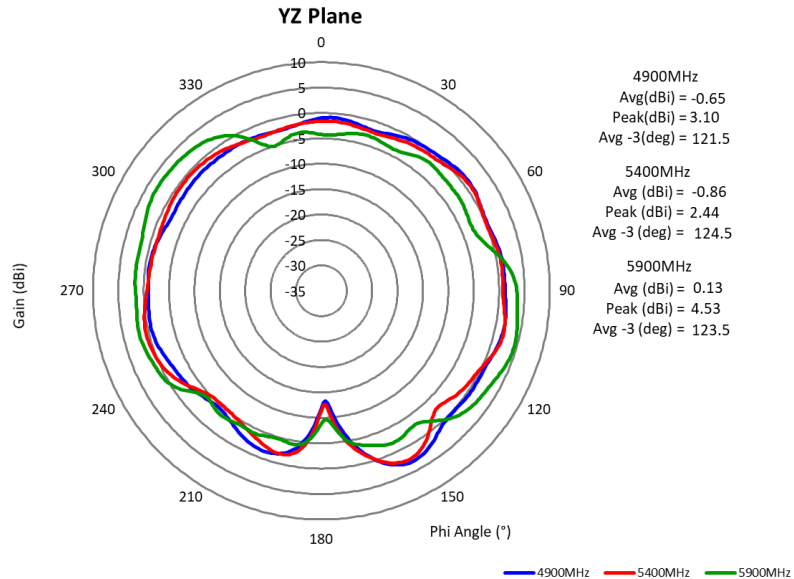
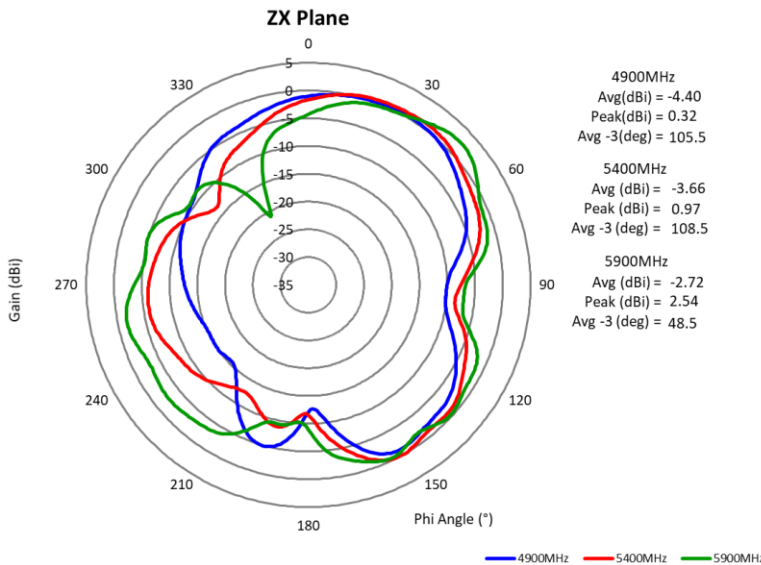
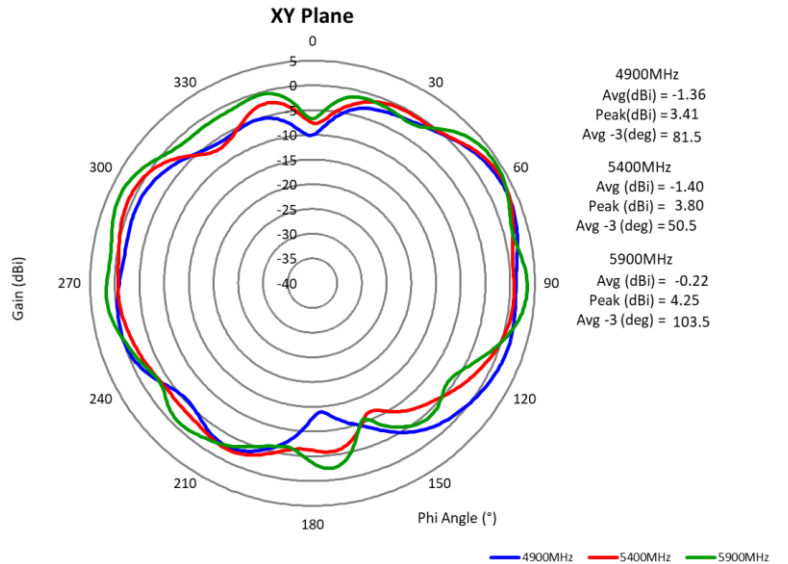
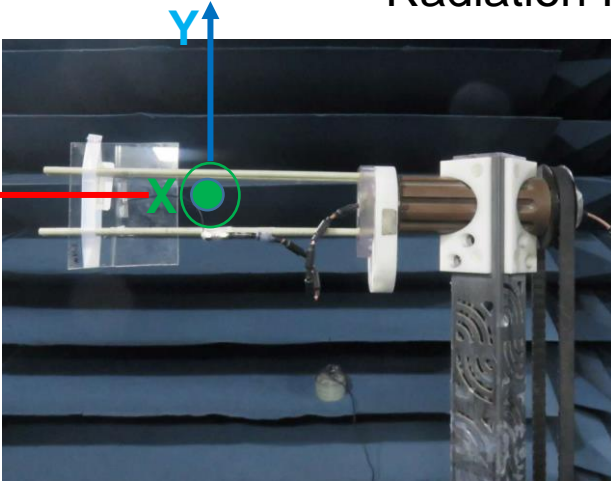
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CHARTS

Radiation Patterns 4900-5900MHz



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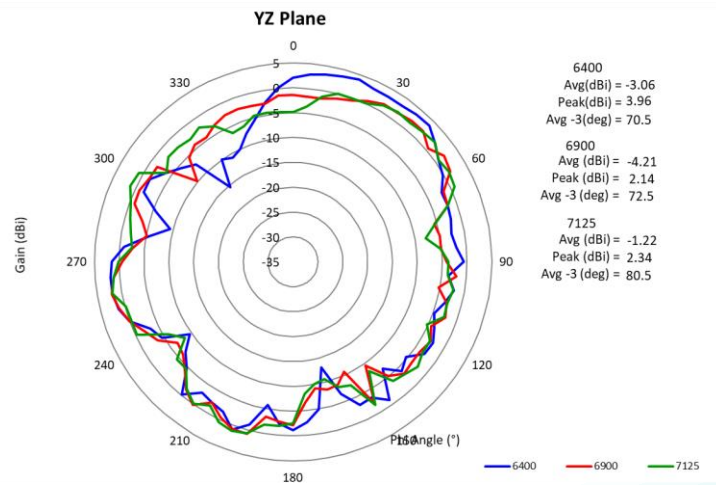
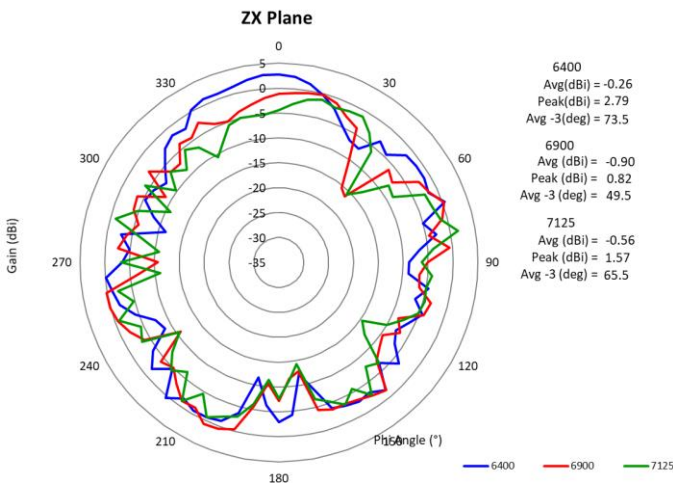
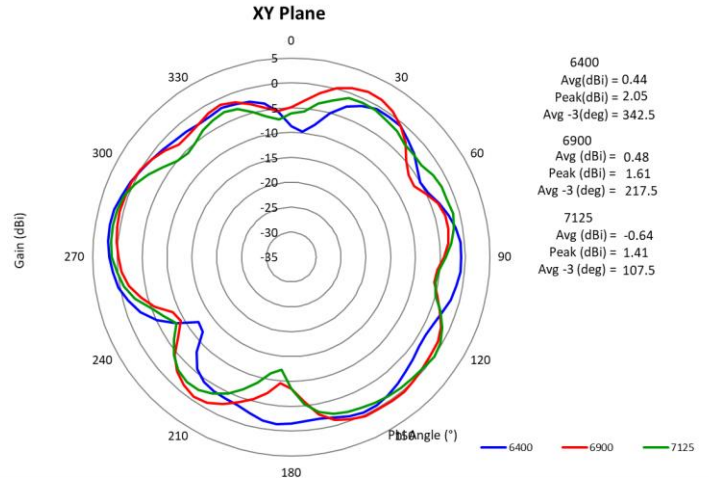
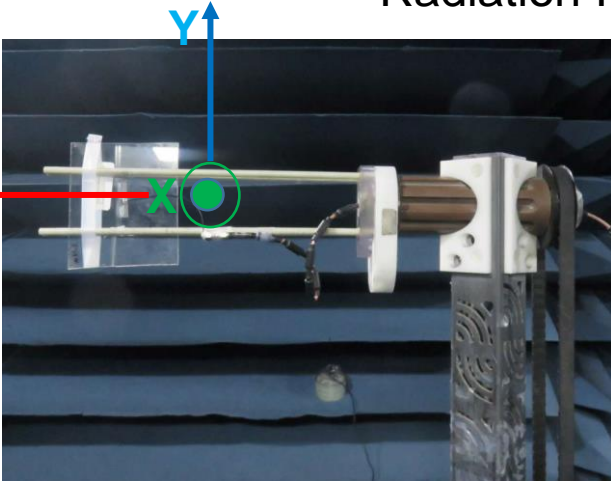
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CHARTS

Radiation Patterns 6000-7125MHz



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## PACKAGING

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

Total 1200PCS/Carton box



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