

Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3917B0060



Features:

- 2400-2500 / 4900-7125 MHz
- Size 42.6 X 8.6 X 0.15 mm
- Efficiency 60/70%
- 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: 2024

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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ELECTRICAL SPECIFICATIONS

Antenna Type	Dipole
Frequency	2400-2500MHz 4900-7125MHz
Nominal Impedance	50 Ω
Return Loss	2400-2500MHz<-6db 4900-7125MHz<-10db
Radiation Pattern	Omni
Gain	4+/-1dBi@2400-2500MHz 6+/-1dBi@5150-5850MHz
Efficiency	60%@2400-2500MHz 70%@4900-7125MHz
Polarization	Linear
Power Withstanding	5W

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MECHANICAL SPECIFICATIONS

Radiator material	FPC
Color	Black
Adhesive	3M467
Thickness(with adhesive, no liner)	0.15mm
Weight	0.35g
FPC size(L X W X T)	42.6 X 8.6 X 0.15mm

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C
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This document covers all product variants of the following product family:

W3917B0060 60mm 1.13mm OD cable U.FL compatible connector

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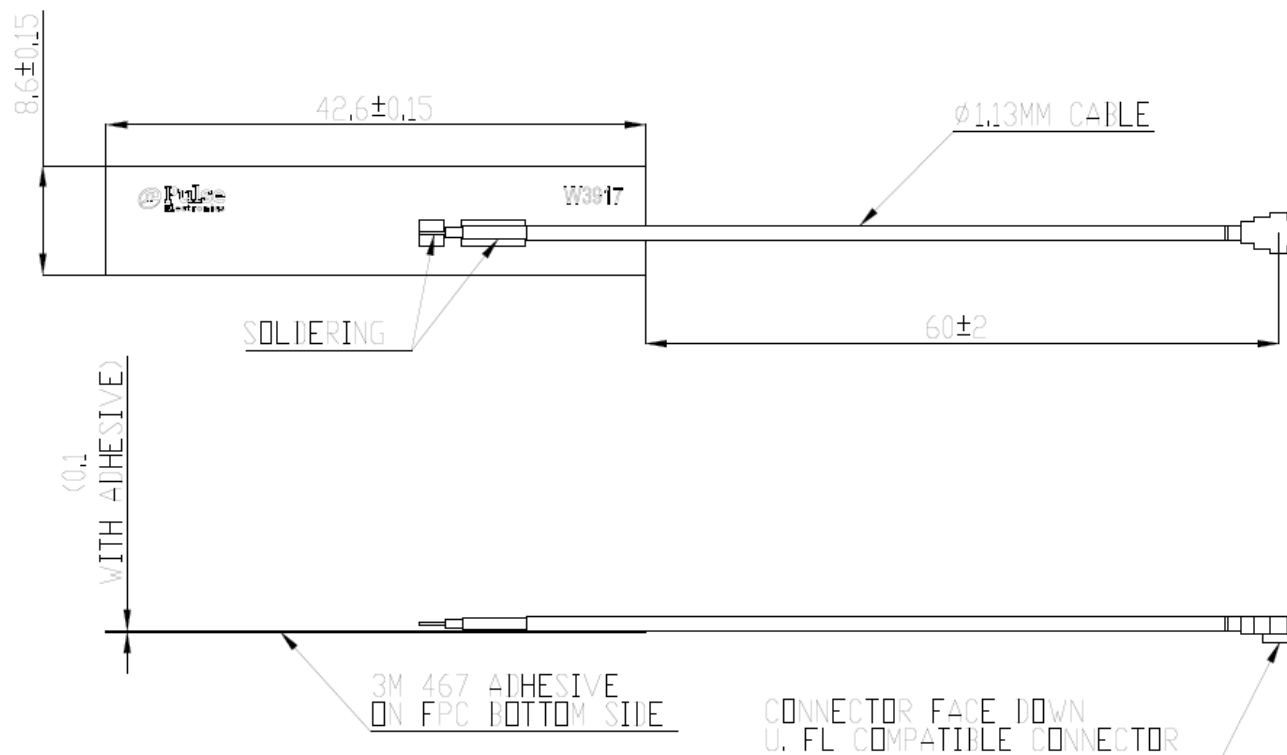
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MECHANICAL DRAWING



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CHARTS

() All RF parameters measured on 2mm thick PC plate
Cable length 60mm*

Test Setup



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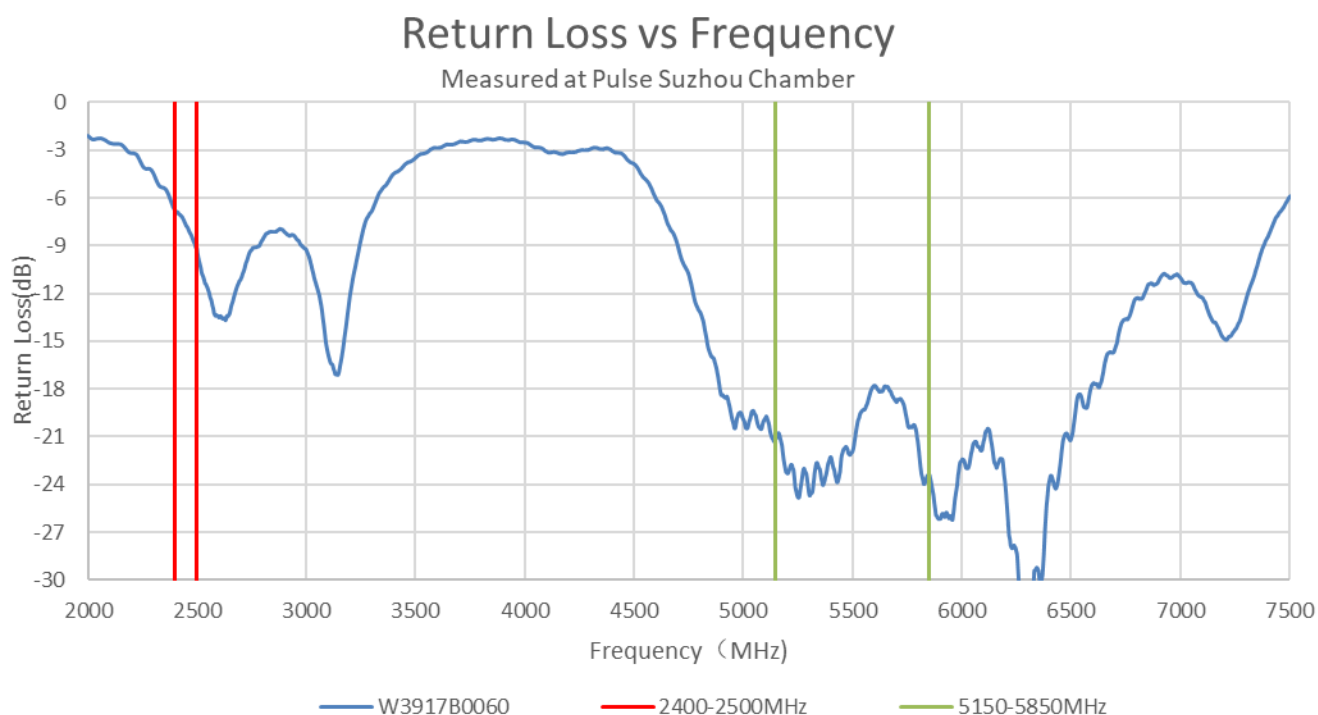
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Return Loss



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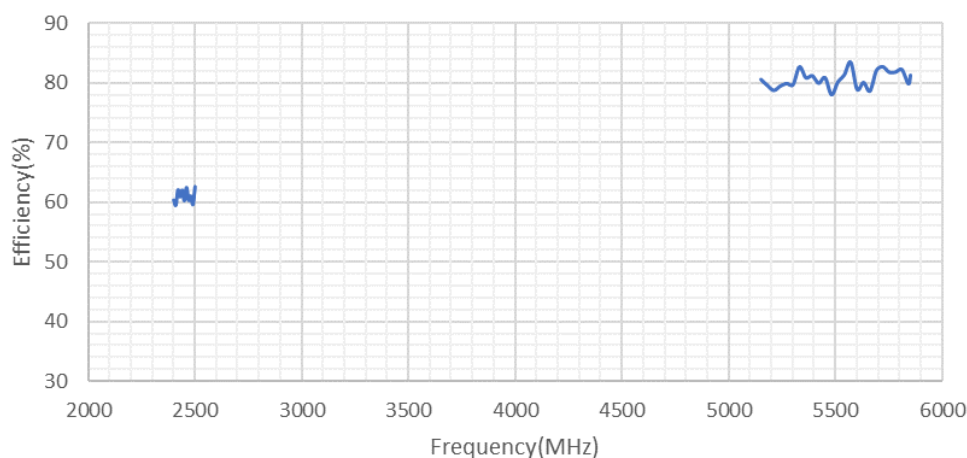
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CHARTS

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

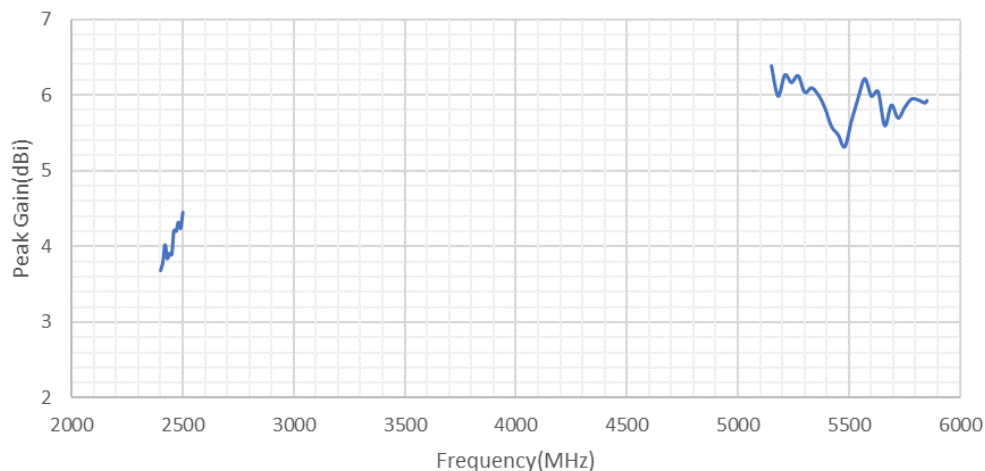
Efficiency

Efficiency vs Frequency



Peak Gain

Peak Gain vs Frequency



Frequency Range	Peak gain (dBi)
5150~5250 MHz	6.4
5725~5850 MHz	5.8

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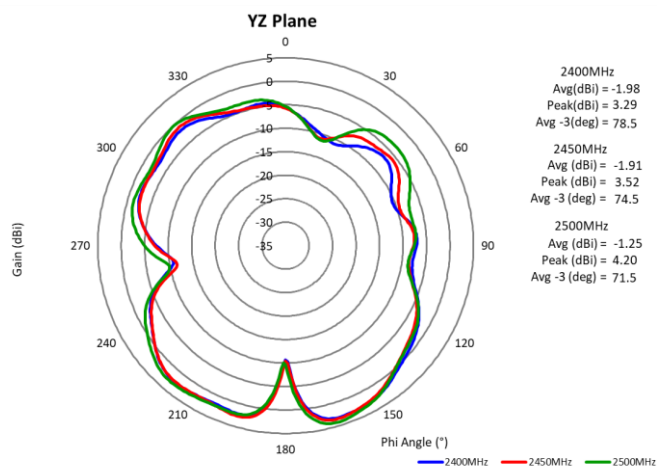
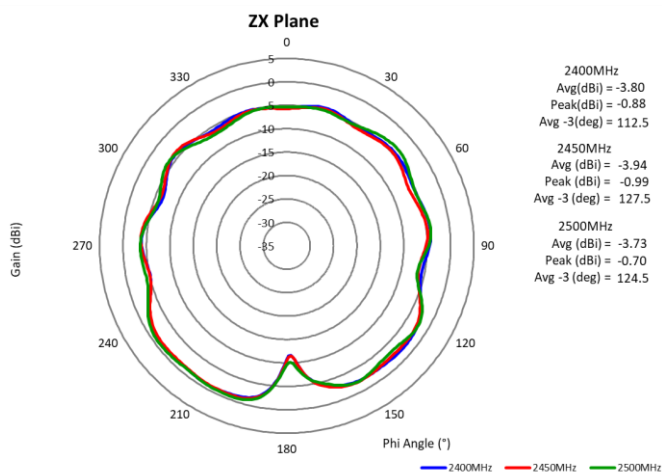
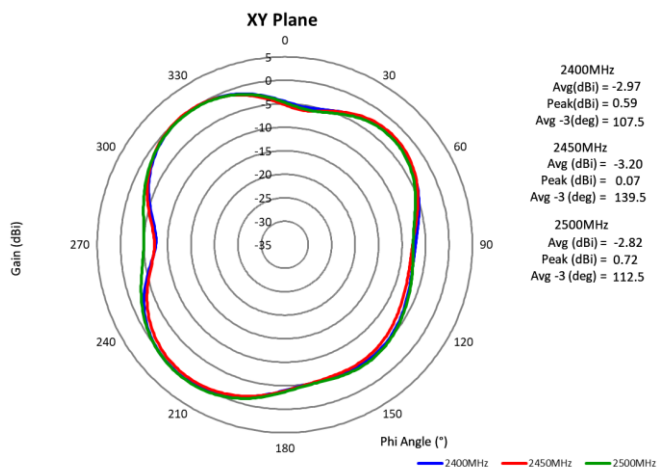
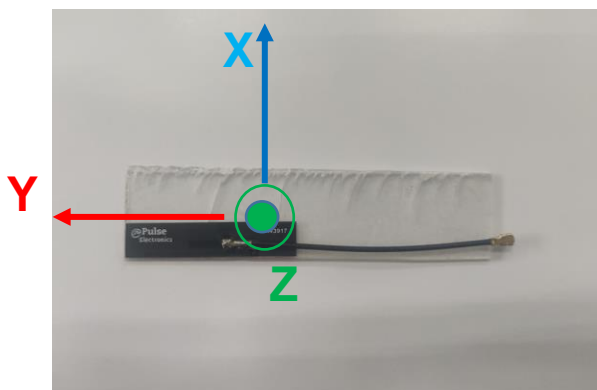
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Radiation Patterns 2400-2500MHz



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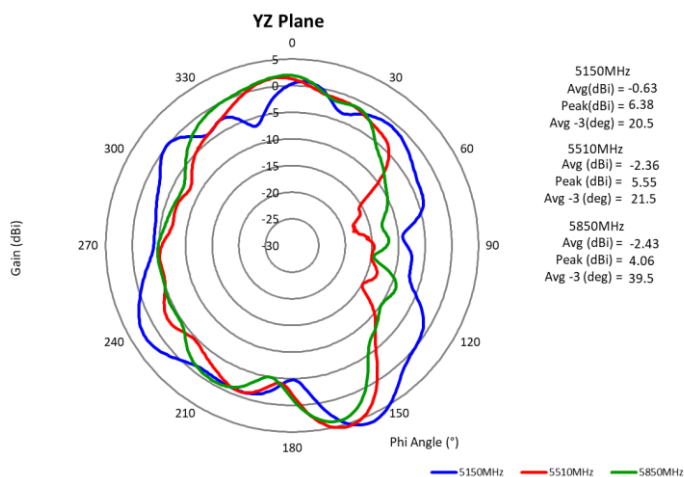
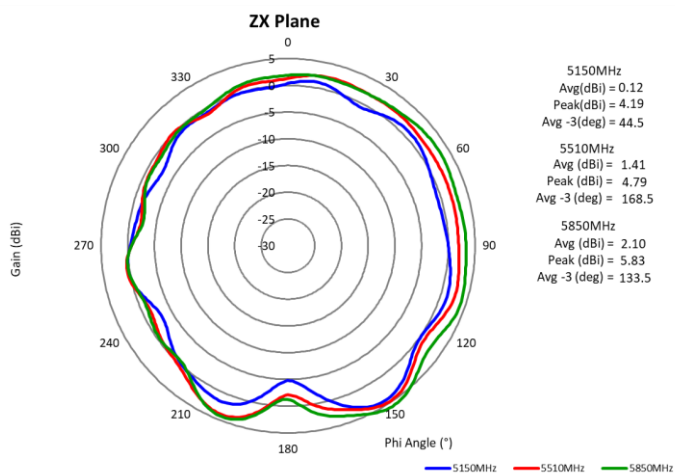
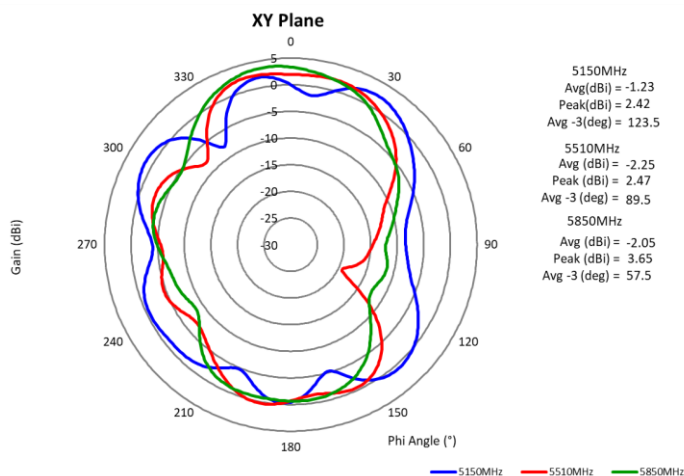
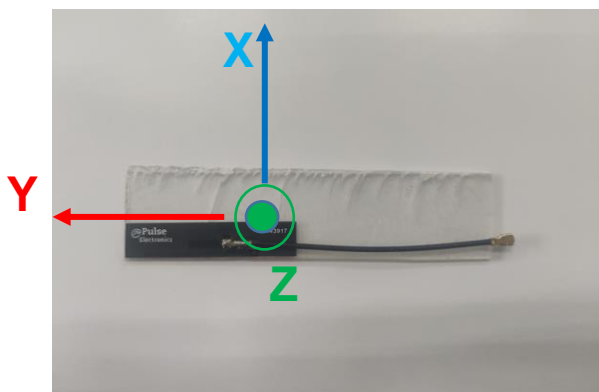
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CHARTS

Radiation Patterns 5150-5850MHz



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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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