

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  $\Omega$
- 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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For more information:

Pulse Worldwide Headquarters  
12220 World Trade Drive  
San Diego, CA 92128  
USA  
Tel: 1-858-674-8100

Pulse/Larsen Antennas  
18110 SE 34<sup>th</sup> St Bldg 2 Suite 250  
Vancouver, WA 98683  
USA  
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



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## ELECTRICAL SPECIFICATIONS

Antenna Type	Dipole
Frequency	2400-2500MHz 4900-7125MHz
Nominal Impedance	50 $\Omega$
Return Loss	2400-2500MHz<-6db 4900-7125MHz<-10db
Radiation Pattern	Omni
Gain	4+/-1dBi@2400-2500MHz 5+/-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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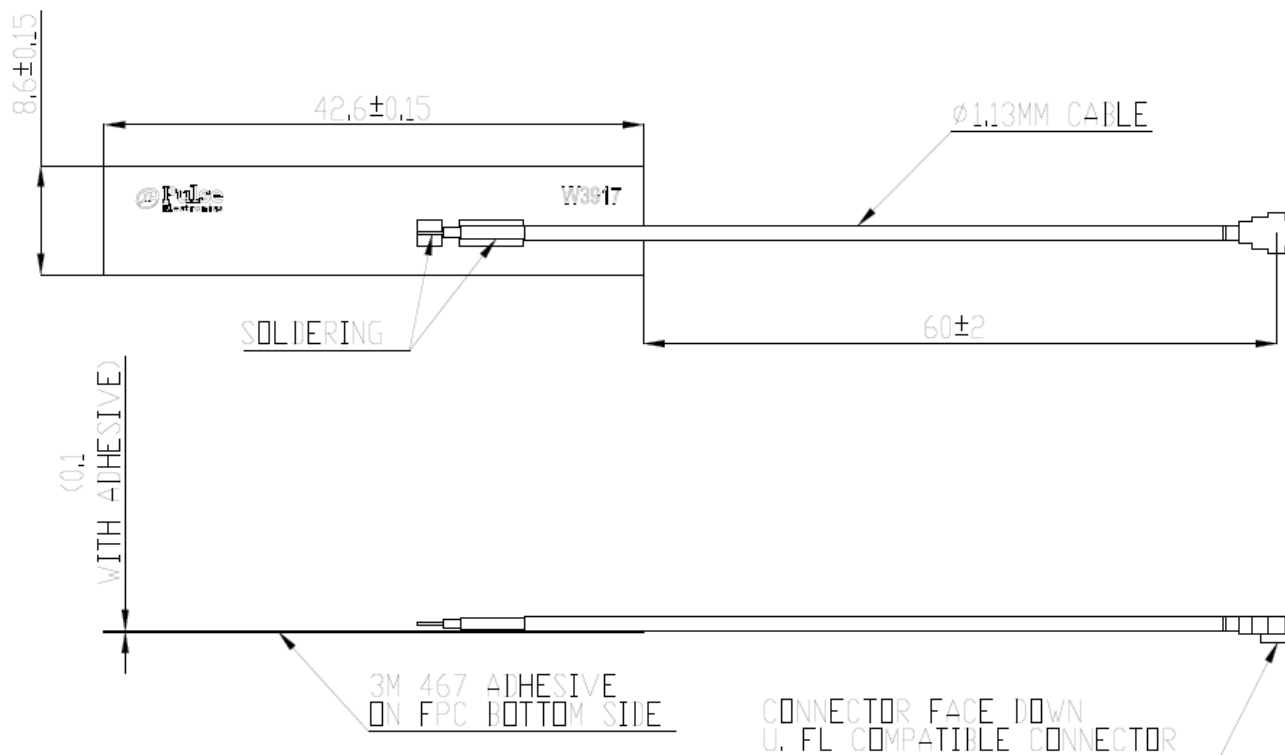
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## MECHANICAL DRAWING



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## CHARTS

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

Test Setup



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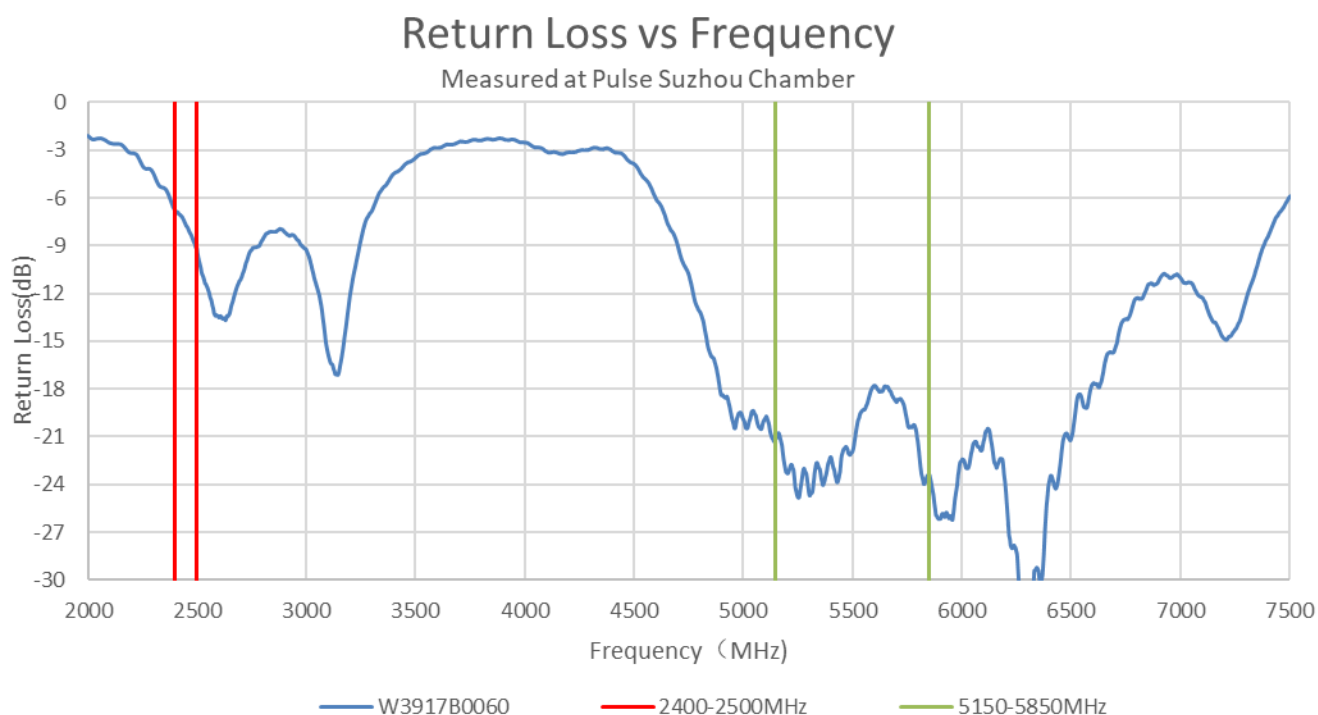
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## CHARTS

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### Return Loss



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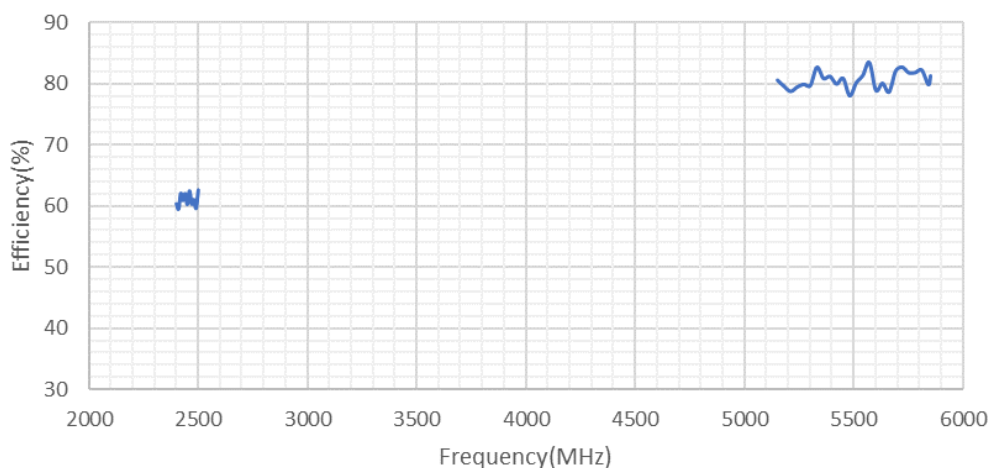
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## CHARTS

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

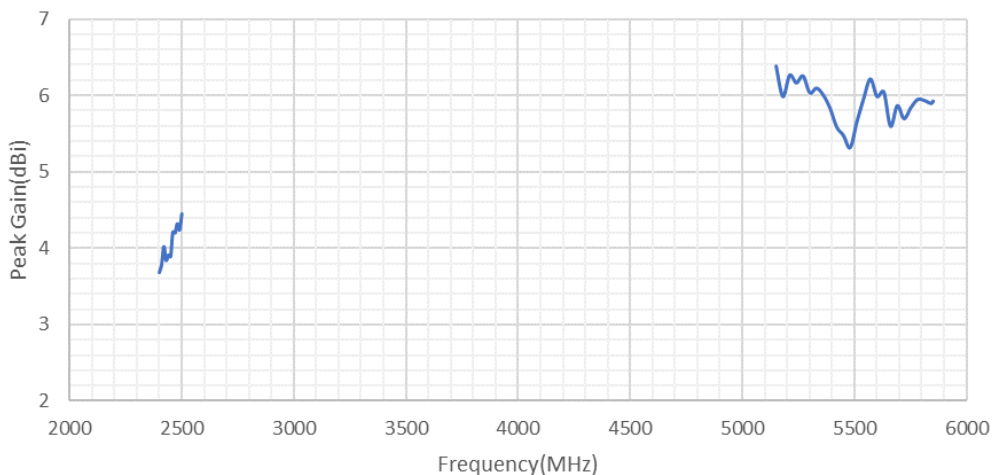
### Efficiency

Efficiency vs Frequency



### Peak Gain

Peak Gain vs Frequency



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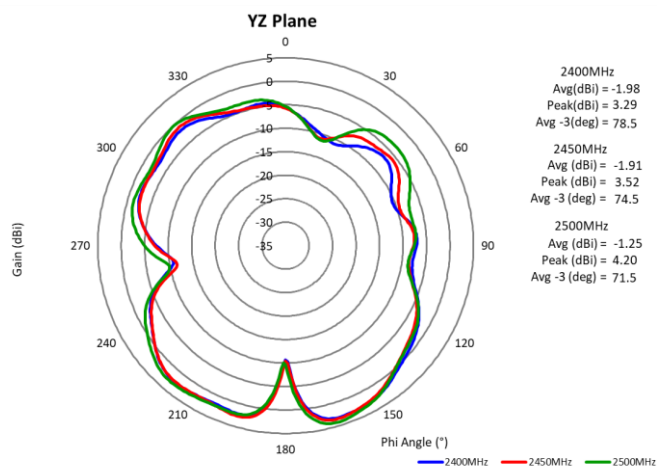
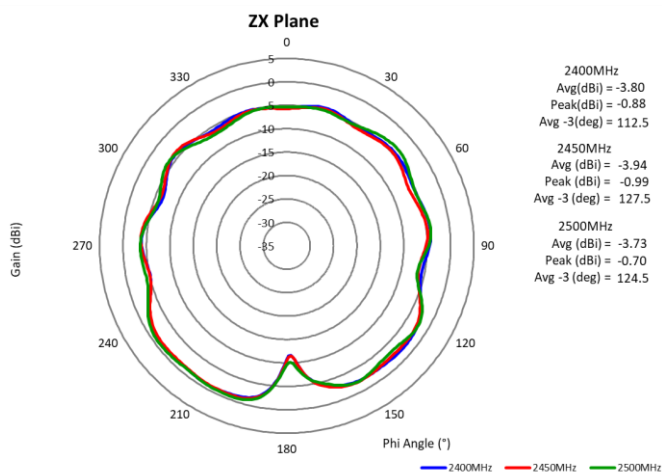
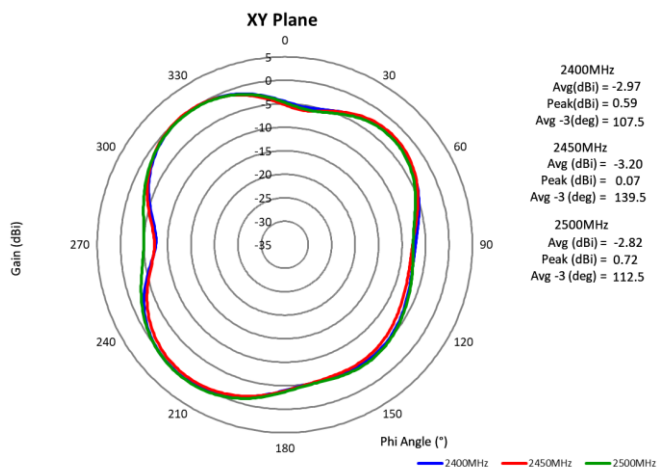
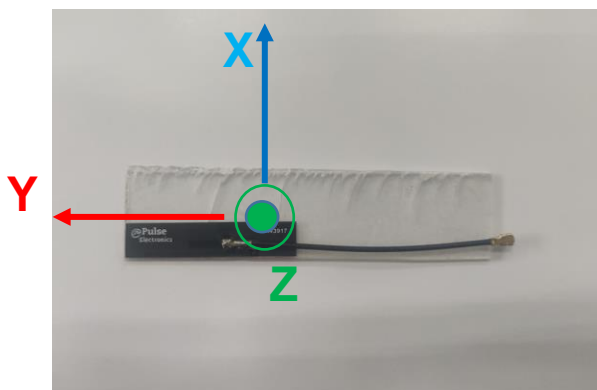
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## CHARTS

### Radiation Patterns 2400-2500MHz



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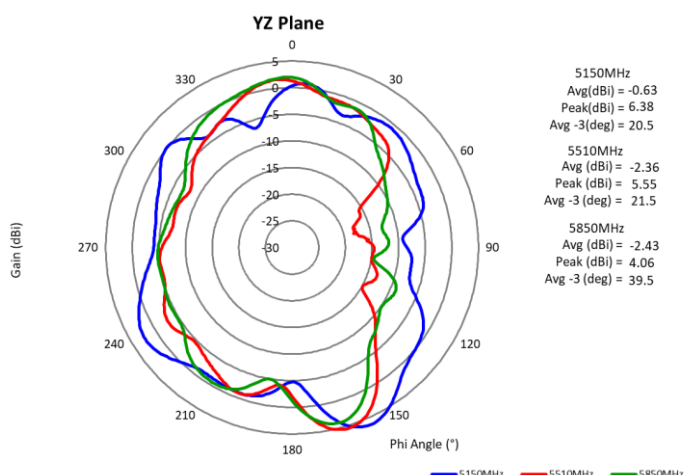
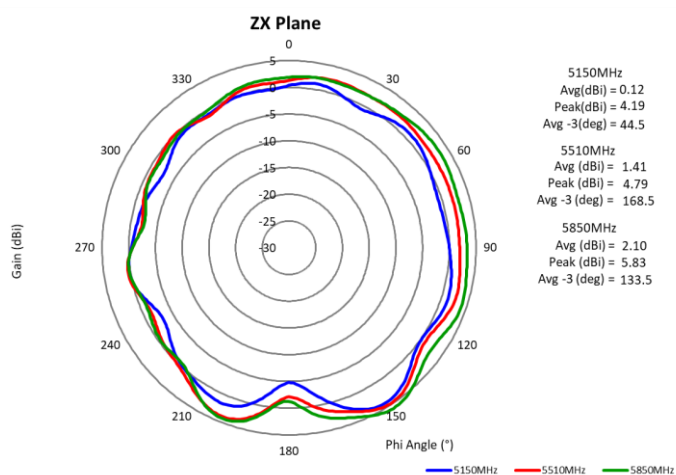
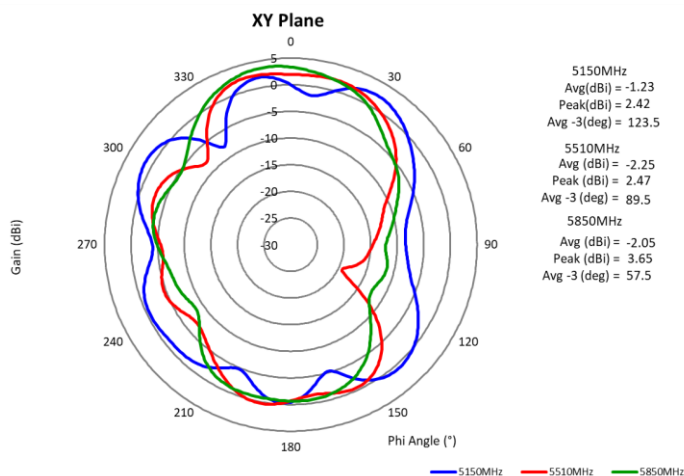
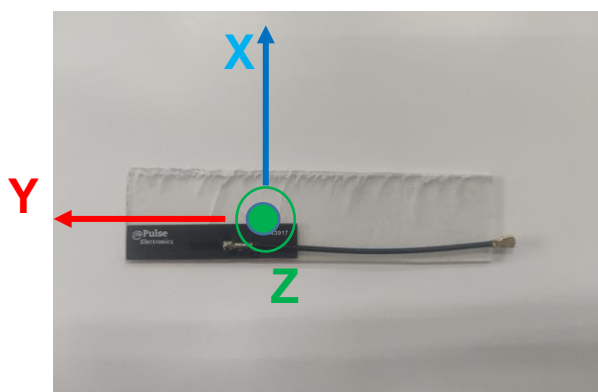
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## CHARTS

### 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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