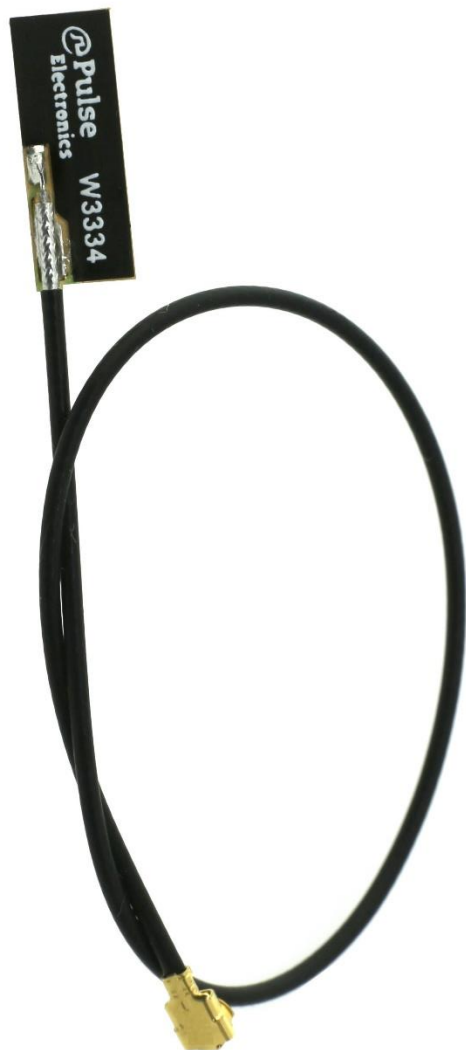


## Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

**PART NUMBER:** W3334XXXXXX



### Features:

- Peak gain 4/5.5dBi
- VSWR 2:1
- Mounting with adhesive tape
- Ultra small flexible radiator 4.3x15.3x0.1mm
- See connector and cable options page 2

### Applications:

- 2.4/5.xGHz radios
- Dualband WiFi
- Bluetooth, BLE, ZigBee
- DSRC 5.85-5.925GHz
- Routers, set top boxes
- IoT, M2M, V2x

All dimensions are in mm / inches

#### Issue: 1922

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Tel: 1-858-674-8100

Pulse/Larsen Antennas  
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Pulse GmbH & Do, KG  
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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



**Description: FPC Antenna 2.4/5.xGHz/DSRC**
**Series: Internal Antenna**
**PART NUMBER: W3334XXXXX**
**This document covers all product variants of the following product family:**

W3334B0100	100mm 1.13mm OD cable	U.FL compatible connector
W3334B0127	127mm 1.13mm OD cable	U.FL compatible connector
W3334B0150	150mm 1.13mm OD cable	U.FL compatible connector
W3334B0250	250mm 1.13mm OD cable	U.FL compatible connector
W3334B0290	290mm 1.13mm OD cable	U.FL compatible connector
W3334BD0150	150mm 0.81mm OD cable	MHF4 compatible connector

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**Description: FPC Antenna 2.4/5.xGHz/DSRC**
**Series: Internal Antenna**
**PART NUMBER: W3334XXXXX**
**ELECTRICAL SPECIFICATIONS**

Cable Length (mm)	P/N	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	VSWR
100	W3334B0100	2400-2500	4+/-1dB	50	2:1
		4900-6000	5.5+/-1dB	70	2.5:1
127	W3334B0127	2400-2500	4+/-1dB	50	2:1
		4900-6000	5.5+/-1dB	70	2:1
150	W3334B0150 W3334BD0150	2400-2500	4+/-1dB	50	2:1
		4900-6000	5.5+/-1dB	70	2:1
250	W3334B0250	2400-2500	4+/-1dB	50	2:1
		4900-6000	5.5+/-1dB	70	2:1
290	W3334B0290	2400-2500	4+/-1dB	50	2:1
		4900-6000	5.5+/-1dB	70	2:1

***Typical free space performance measured on 1mm thick PC plate***
**Issue: 1922**

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Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXX

### MECHANICAL SPECIFICATIONS

FPC size	14.3 X 5.3 X0.1[0.56 X 0.21 X 0.004]	mm[inch]
Connector type	See Page 2.	
Cable type	See Page 2	
Cable length	Optional	
Cable color	Black	
Adhesive	3M467	

### ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C
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#### Issue: 1922

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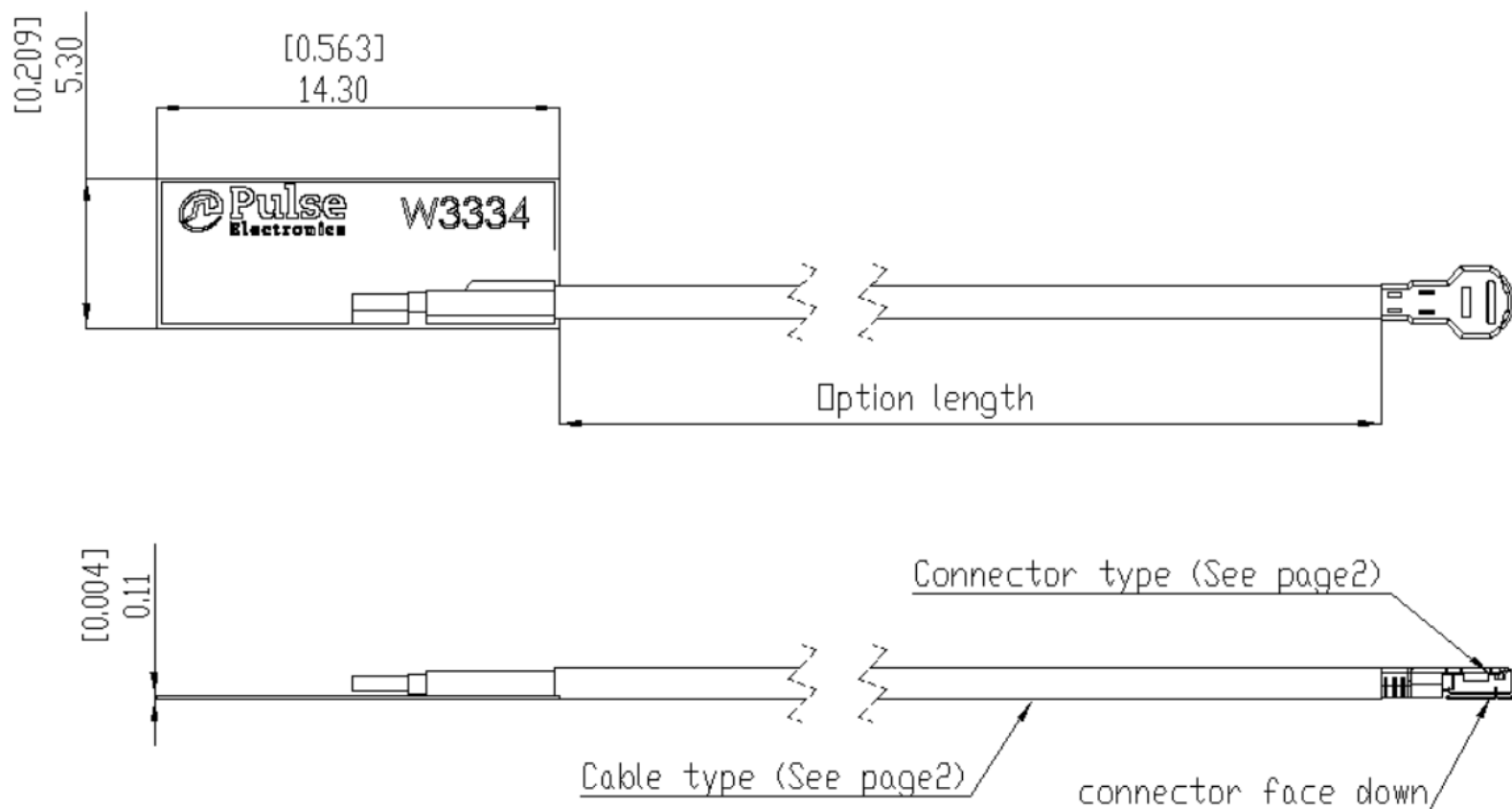
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**Description: FPC Antenna 2.4/5.xGHz/DSRC**

**Series: Internal Antenna**

**PART NUMBER: W3334XXXXXX**

## MECHANICAL DRAWING



### Issue: 1922

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**Description: FPC Antenna 2.4/5.xGHz/DSRC**

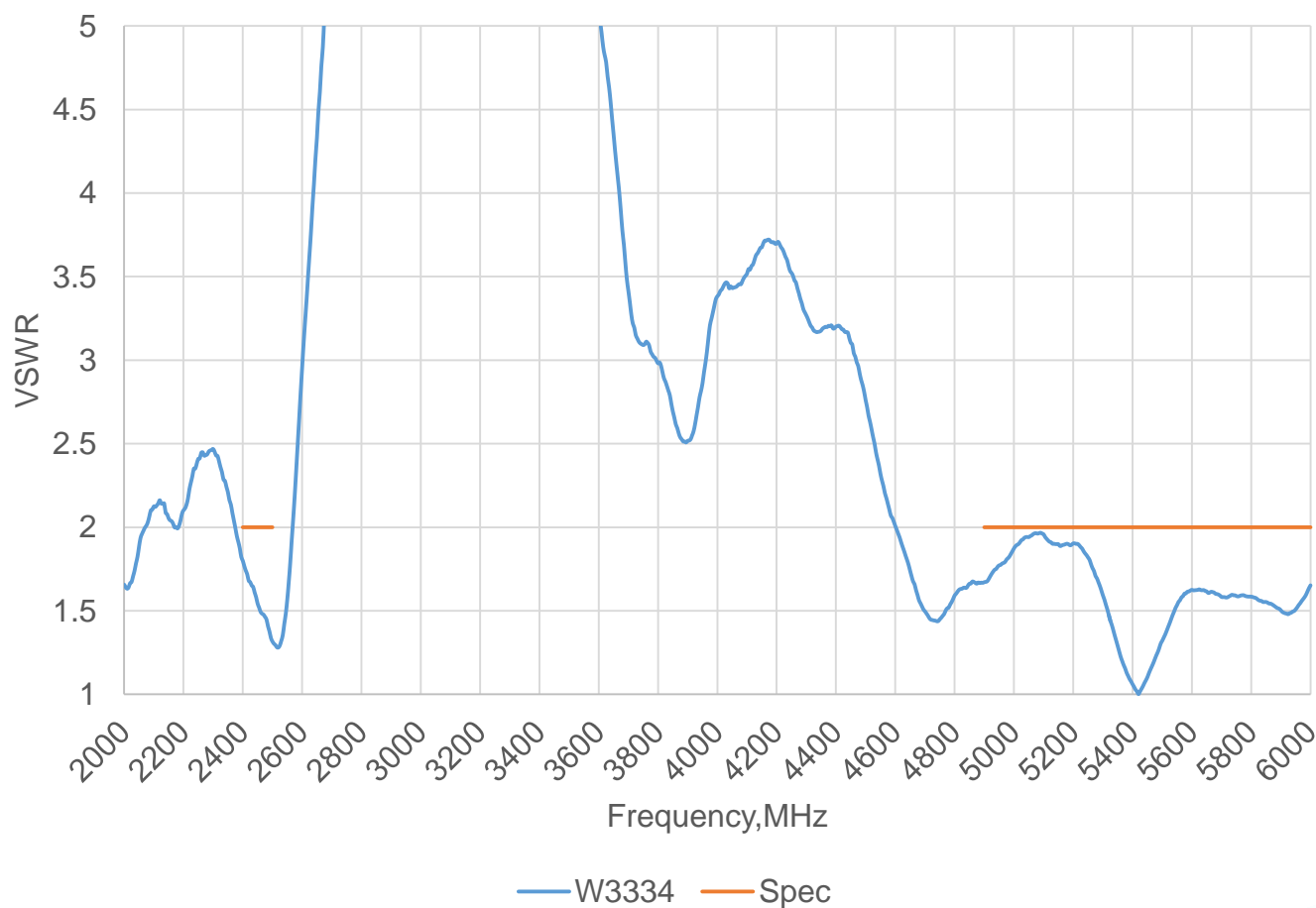
**Series: Internal Antenna**

**PART NUMBER: W3334XXXXX**

## CHARTS

### VSWR

W3334 measured with polycarbonate plate



**Note: Antenna tested on 1mm thickness PC plate with 150mm feed cable**

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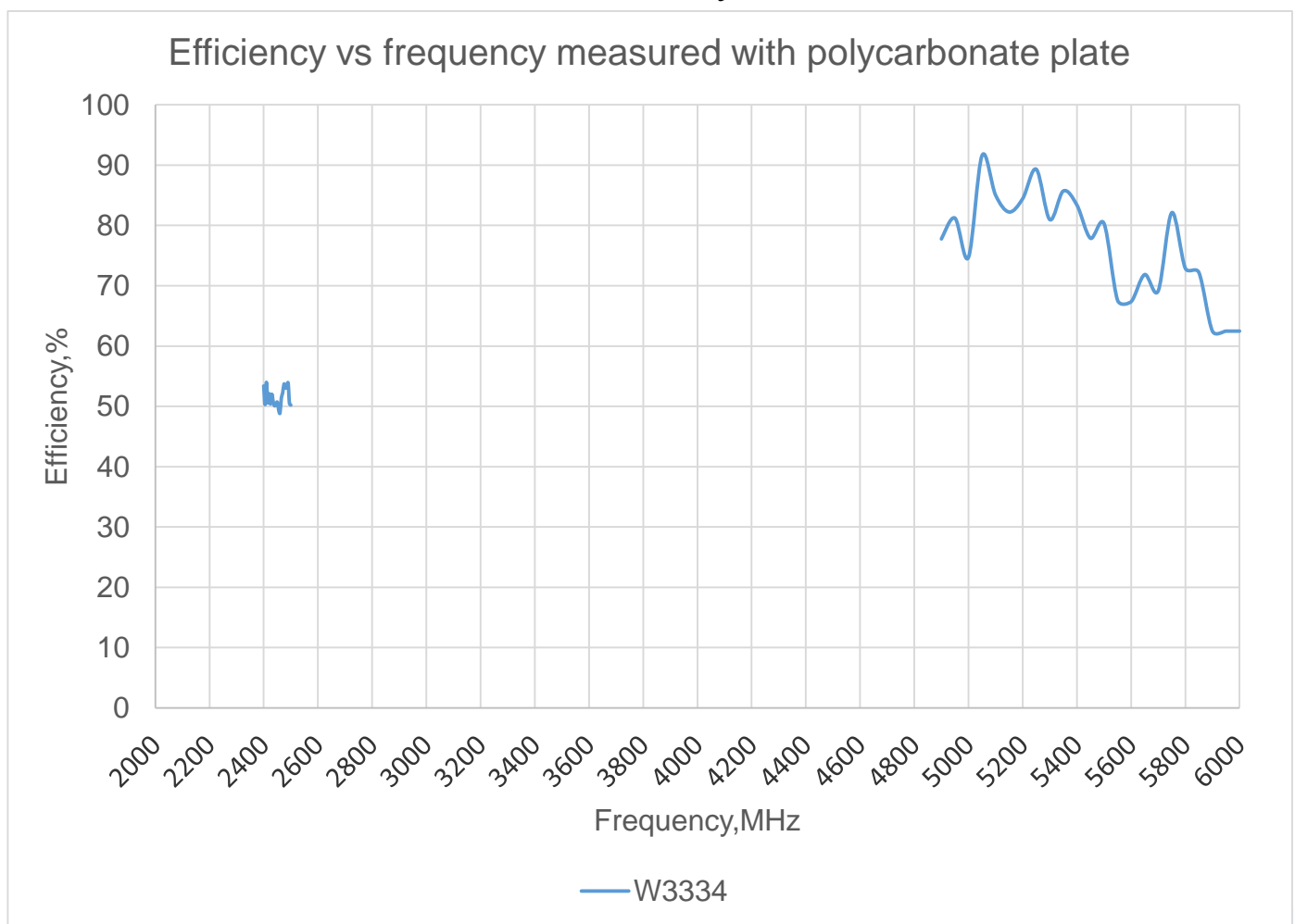
**Description: FPC Antenna 2.4/5.xGHz/DSRC**

**Series: Internal Antenna**

**PART NUMBER: W3334XXXXX**

## CHARTS

### Efficiency



**Note: Antenna tested on 1mm thickness PC plate with 150mm feed cable**

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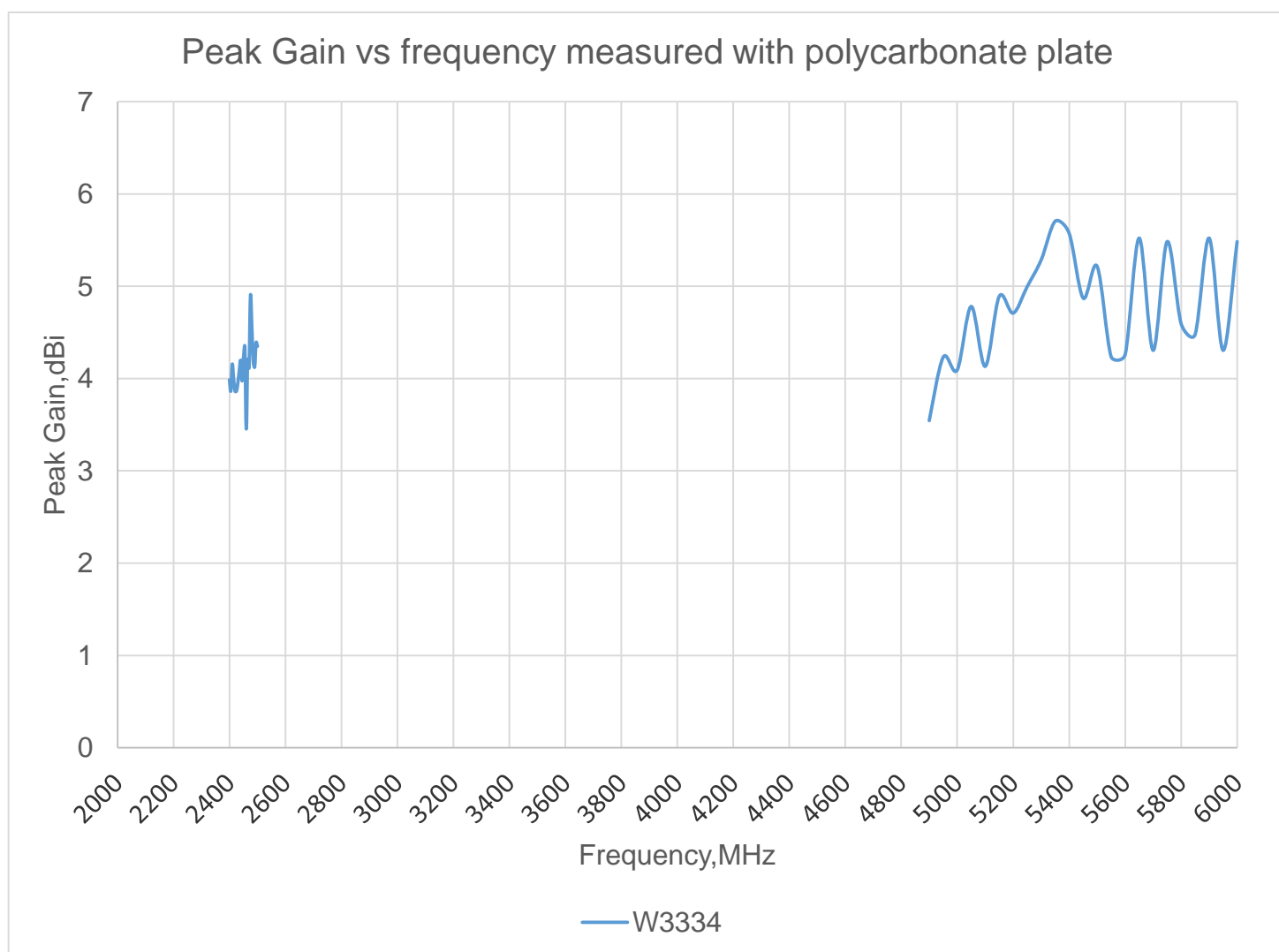
**Description: FPC Antenna 2.4/5.xGHz/DSRC**

**Series: Internal Antenna**

**PART NUMBER: W3334XXXXXX**

## CHARTS

### Peak Gain



**Note: Antenna tested on 1mm thickness PC plate with 150mm feed cable**

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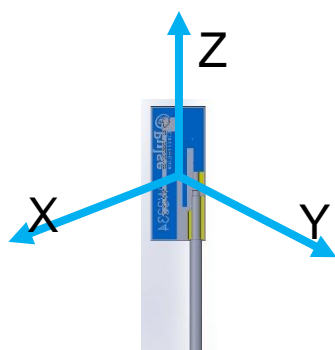


# Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

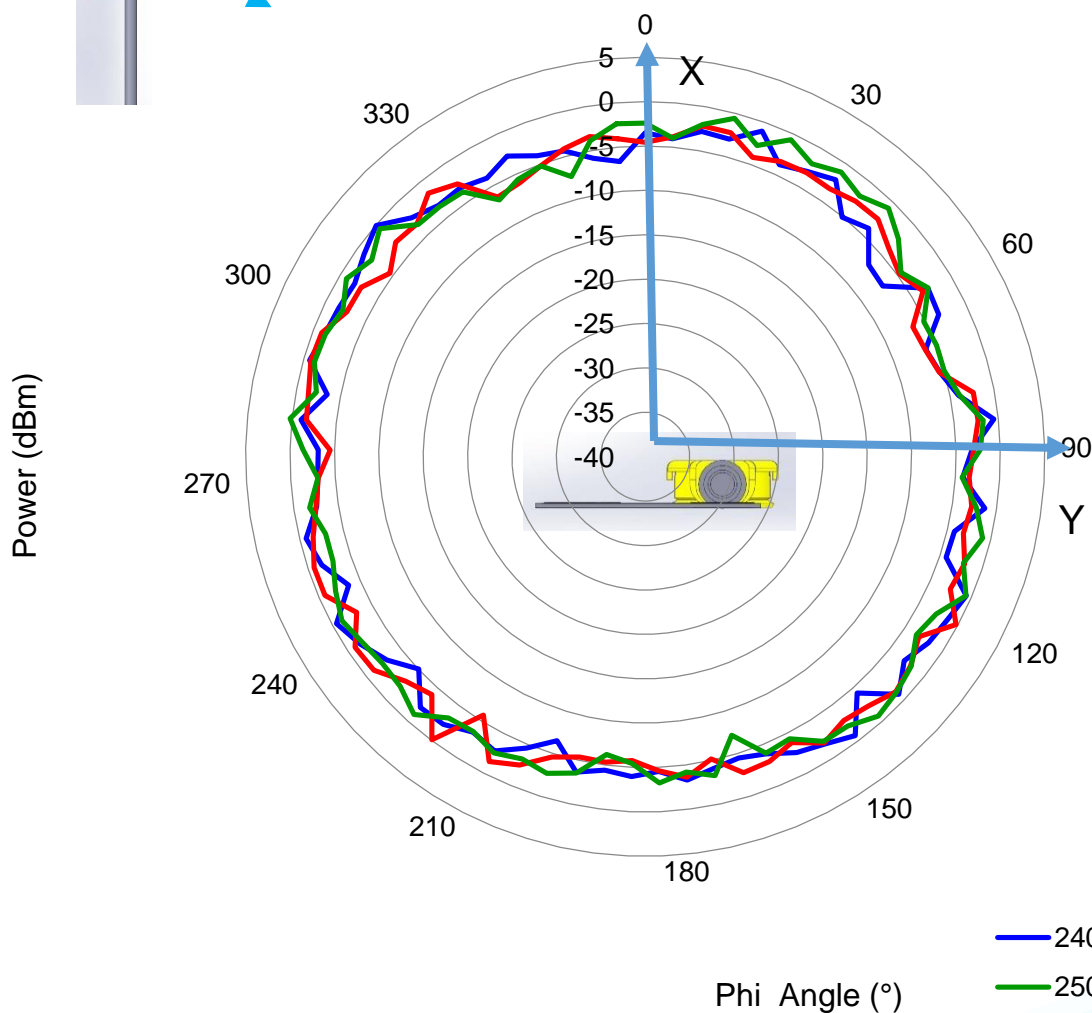
PART NUMBER: W3334XXXXXX

## CHARTS



### Gain Plots

#### XY Plane



2400MHz  
Avg (dBi) = -4.07  
Peak (dBi) = -2.05  
Avg -3 (deg) = 285

2450MHz  
Avg (dBi) = -3.89  
Peak (dBi) = -1.39  
Avg -3 (deg) = 265

2500MHz  
Avg (dBi) = -3.32  
Peak (dBi) = -1.32  
Avg -3 (deg) = 265

**Note: Antenna tested on 1mm thickness PC plate with 150mm feed cable**

#### Issue: 1922

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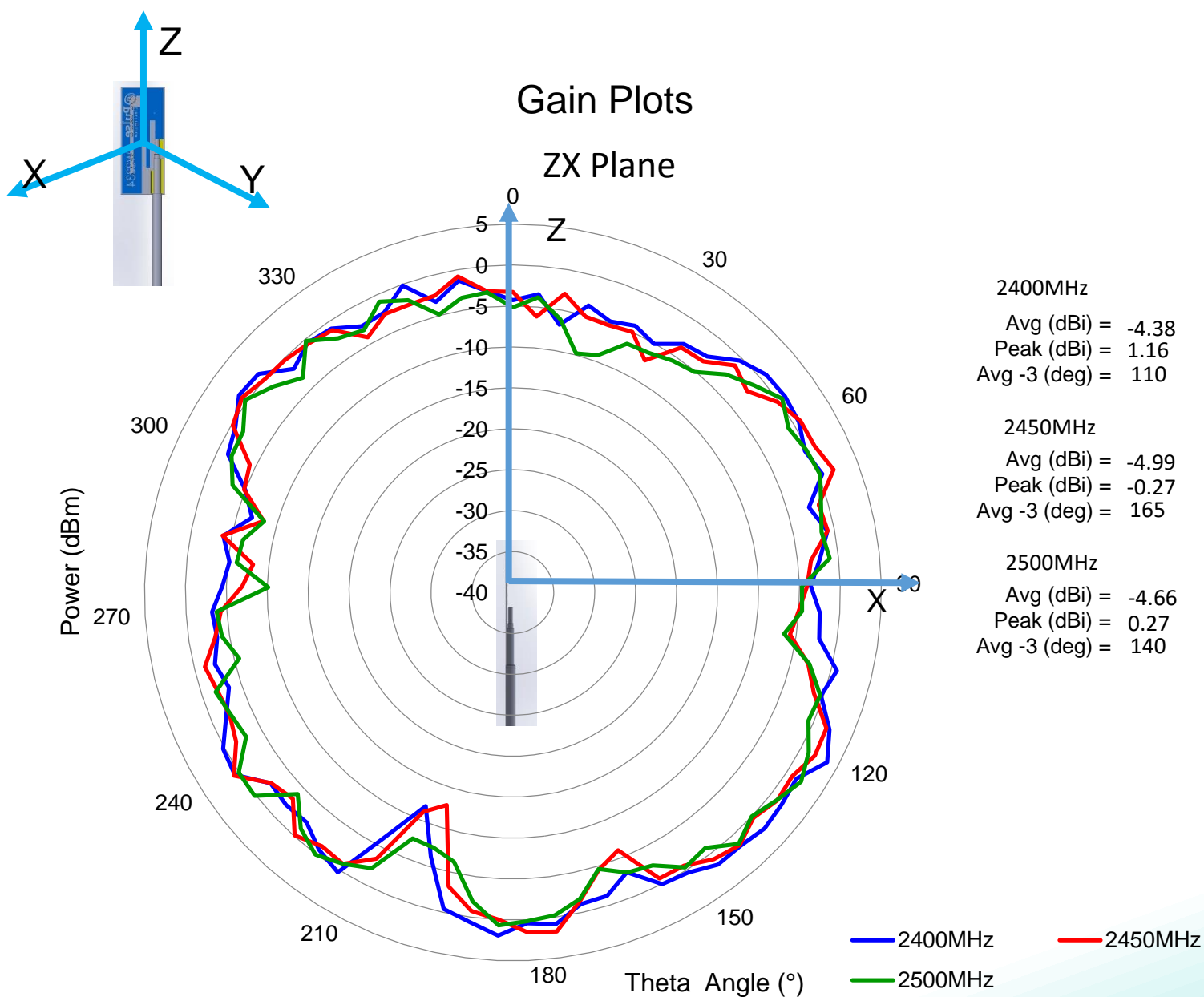
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Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXXX

## CHARTS



**Note: Antenna tested on 1mm thickness PC plate with 150mm feed cable**

### Issue: 1922

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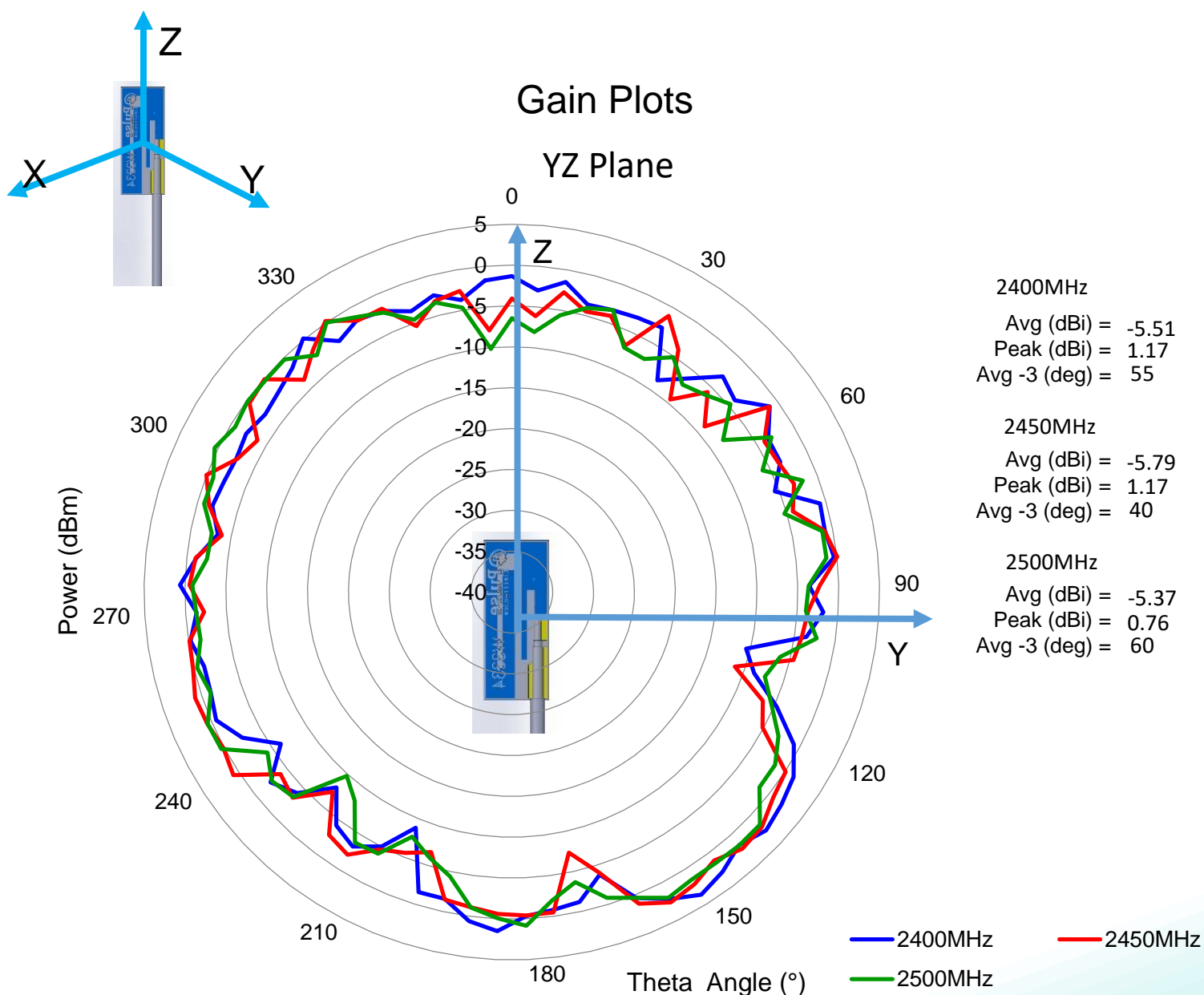
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Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXXX

## CHARTS



**Note: Antenna tested on 1mm thickness PC plate with 150mm feed cable**

### Issue: 1922

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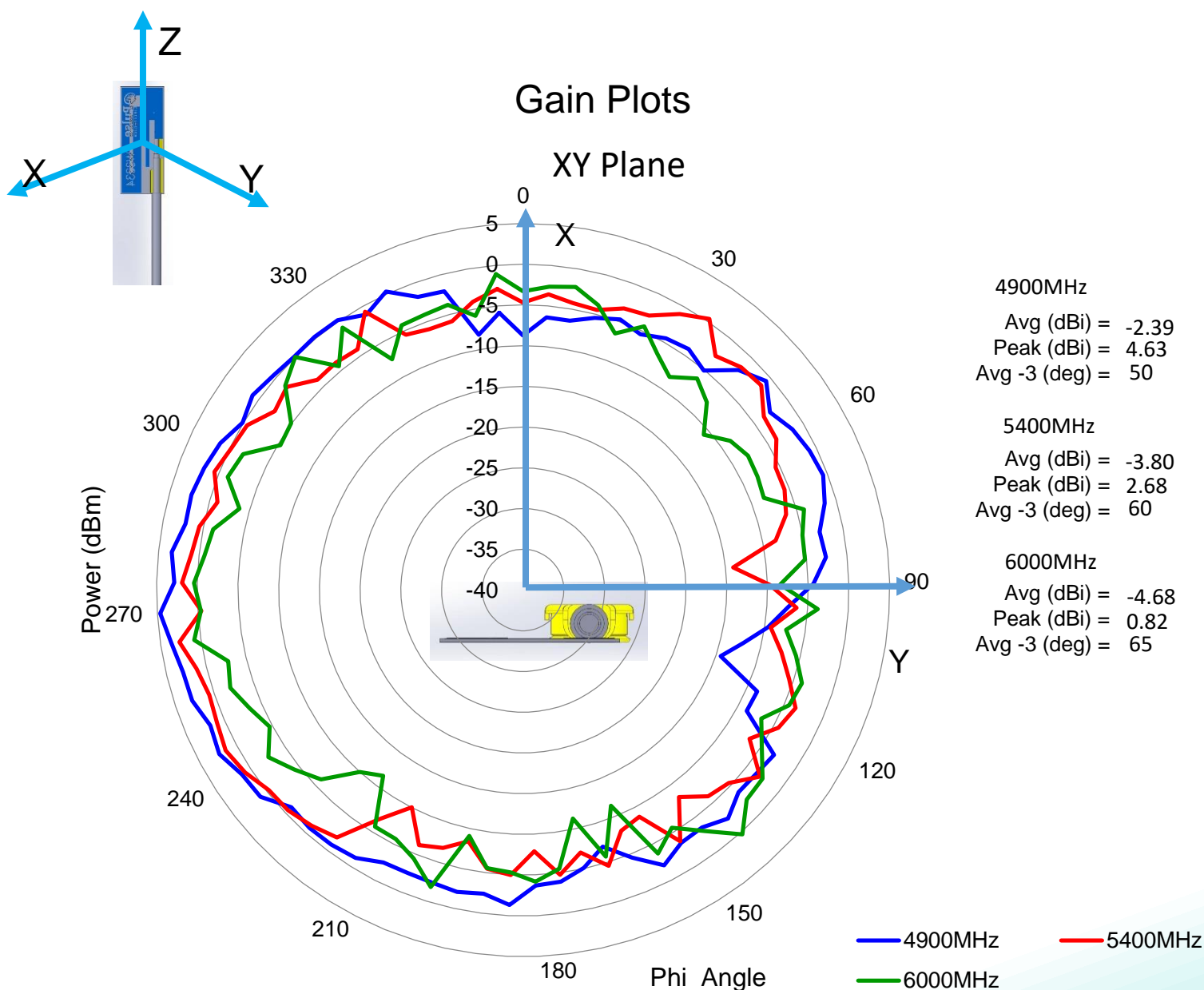
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Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXXX

## CHARTS



**Note: Antenna tested on 1mm thickness PC plate with 150mm feed cable**

### Issue: 1922

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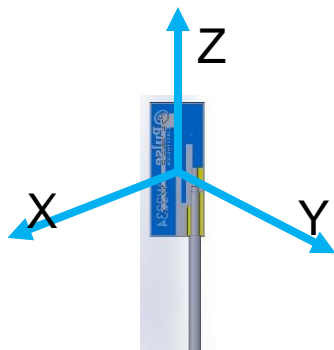
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Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

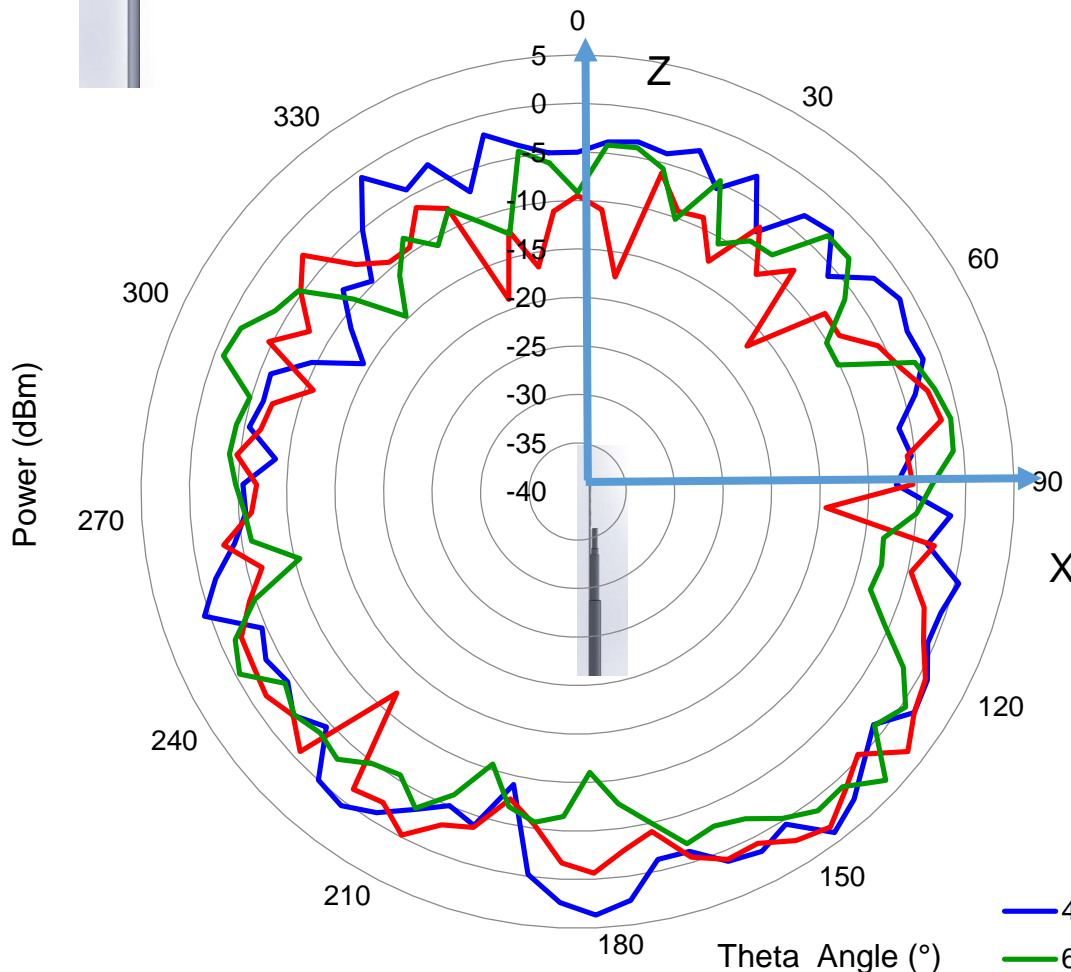
PART NUMBER: W3334XXXXXX

## CHARTS



### Gain Plots

#### ZX Plane



4900MHz  
Avg (dBi) = -3.30  
Peak (dBi) = 3.99  
Avg -3 (deg) = 35

5400MHz  
Avg (dBi) = -5.52  
Peak (dBi) = 3.32  
Avg -3 (deg) = 35

6000MHz  
Avg (dBi) = -5.24  
Peak (dBi) = 3.52  
Avg -3 (deg) = 10

— 4900MHz — 5400MHz  
— 6000MHz

**Note: Antenna tested on 1mm thickness PC plate with 150mm feed cable**

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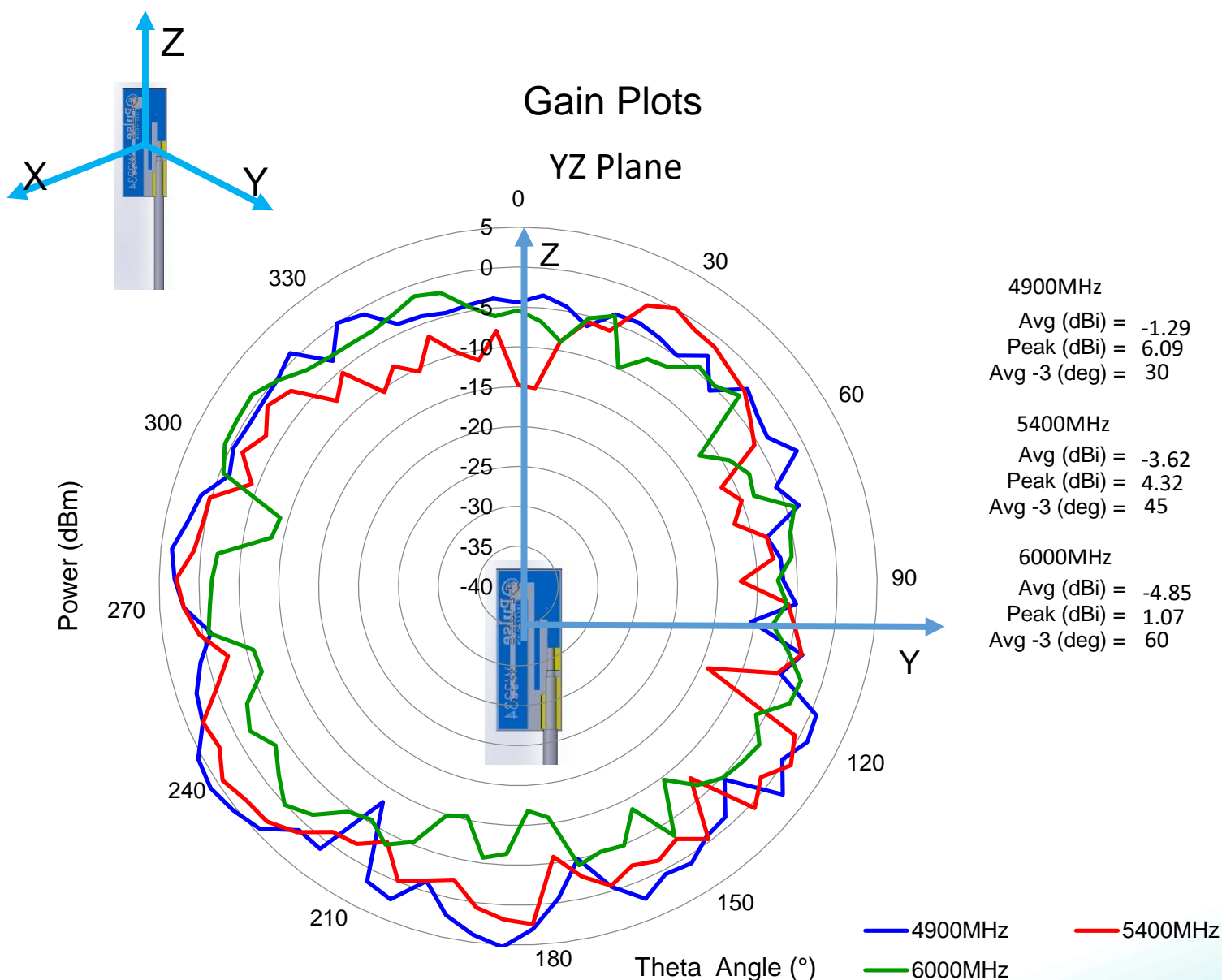
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# Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXX

## CHARTS



**Note: Antenna tested on 1mm thickness PC plate with 150mm feed cable**

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Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXXX

## PACKAGING

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

Total 1200PCS/Carton box



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