

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

**Series: Internal Antenna**

**PART NUMBER: W3334XXXXX**



### Features:

- Peak gain 4/5.5dBi
- VSWR 2:1
- Mounting with adhesive tape
- Ultra small flexible radiator  
14.3 x 5.3 x 0.1mm
- 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: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

For more information:

Pulse Worldwide Headquarters  
15255 Innovation Drive #100  
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 & Do, 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



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:

W3334B0050	50mm 1.13mm OD cable	U.FL compatible connector
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

Issue: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

For more information:

Pulse Worldwide Headquarters  
15255 Innovation Drive #100  
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



**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
50	W3334B0050	2400-2500	4+/-1dB	50	2:1
		4900-6000	5.5+/-1dB	70	2.5:1
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: 2532**

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

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
-----------------------	-------------

#### Issue: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

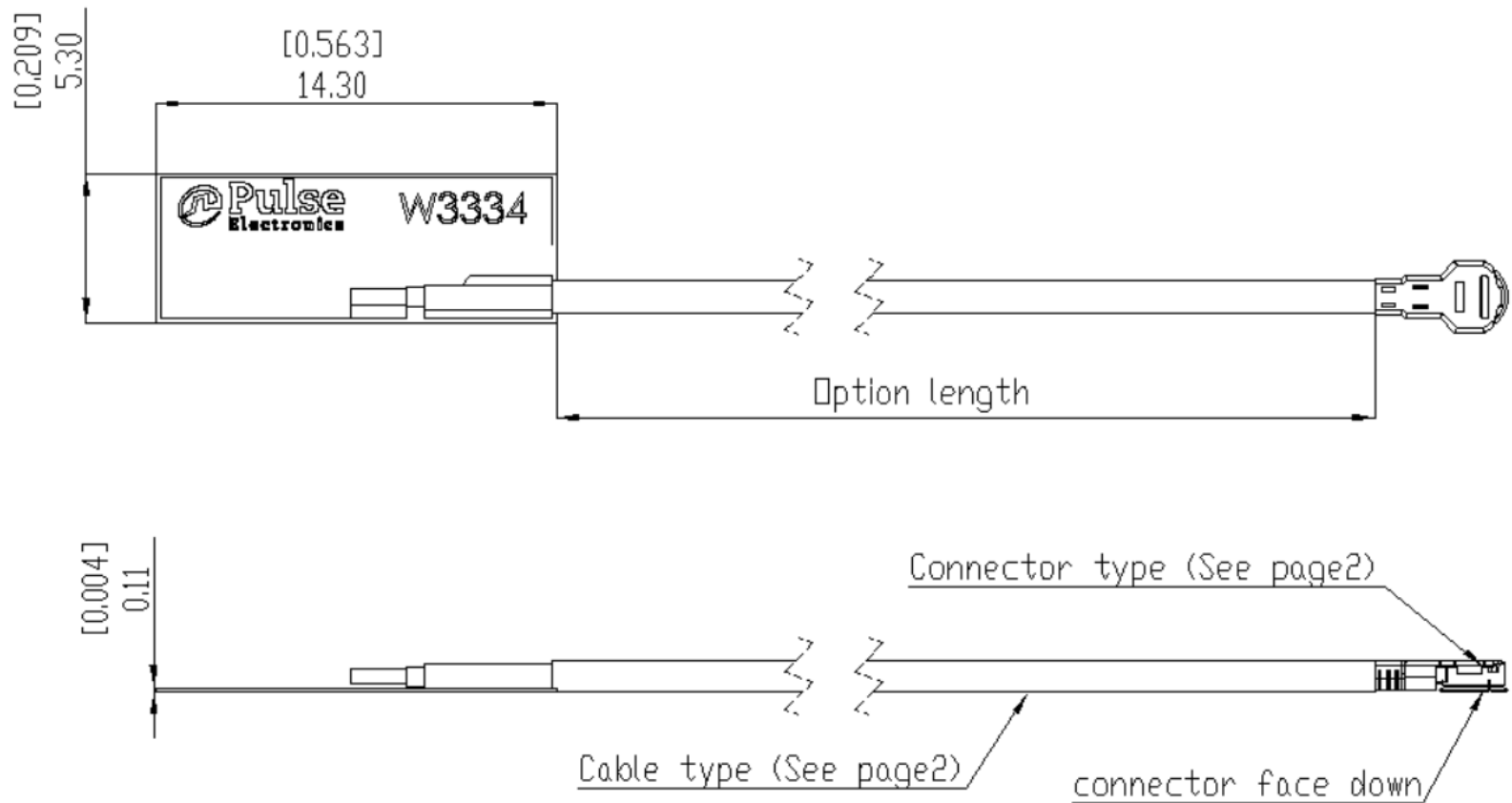
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXXX

MECHANICAL DRAWING



Issue: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Description: FPC Antenna 2.4/5.xGHz/DSRC

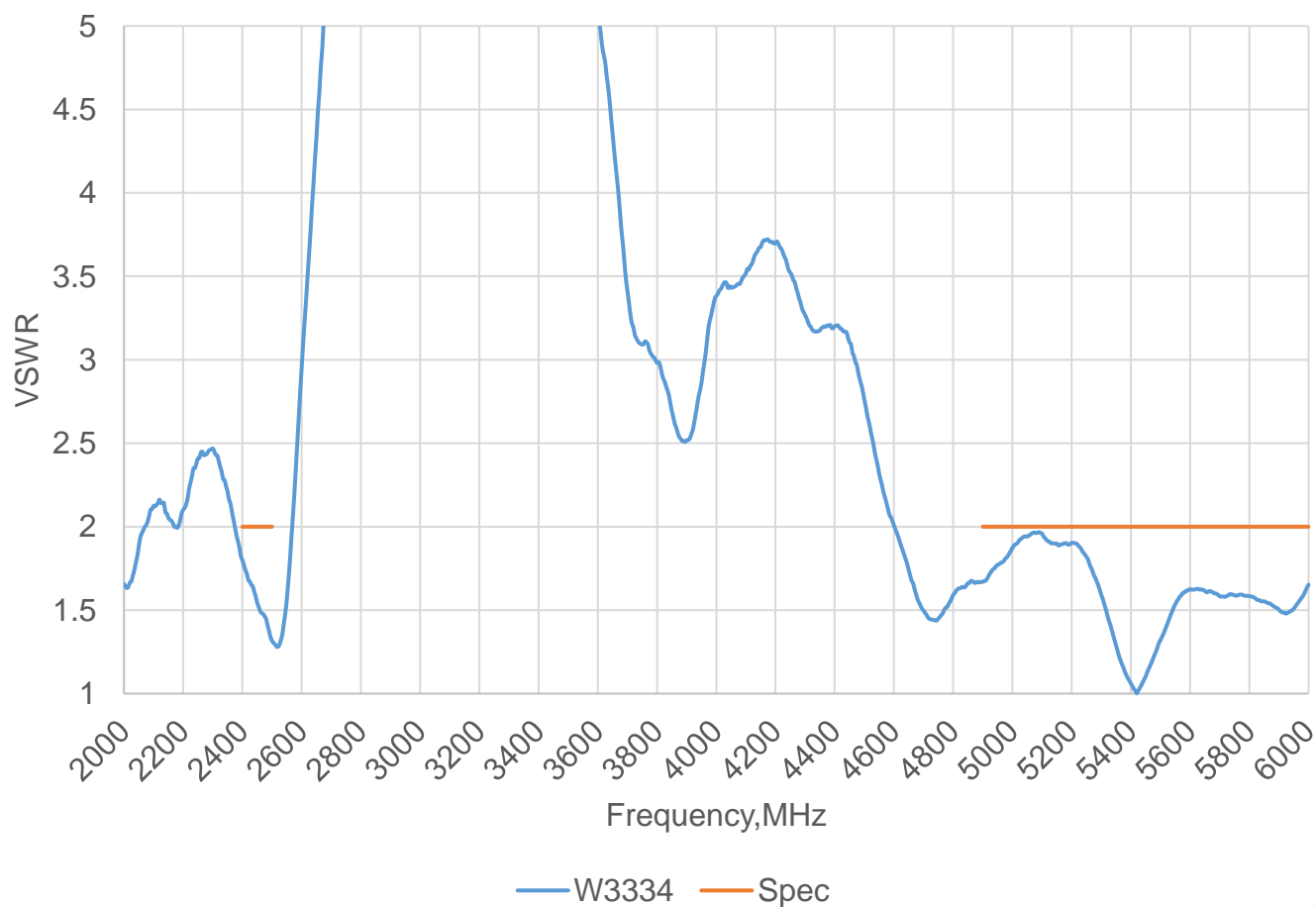
Series: Internal Antenna

PART NUMBER: W3334XXXXXX

## CHARTS

### VSWR

W3334 measured with polycarbonate plate



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

#### Issue: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

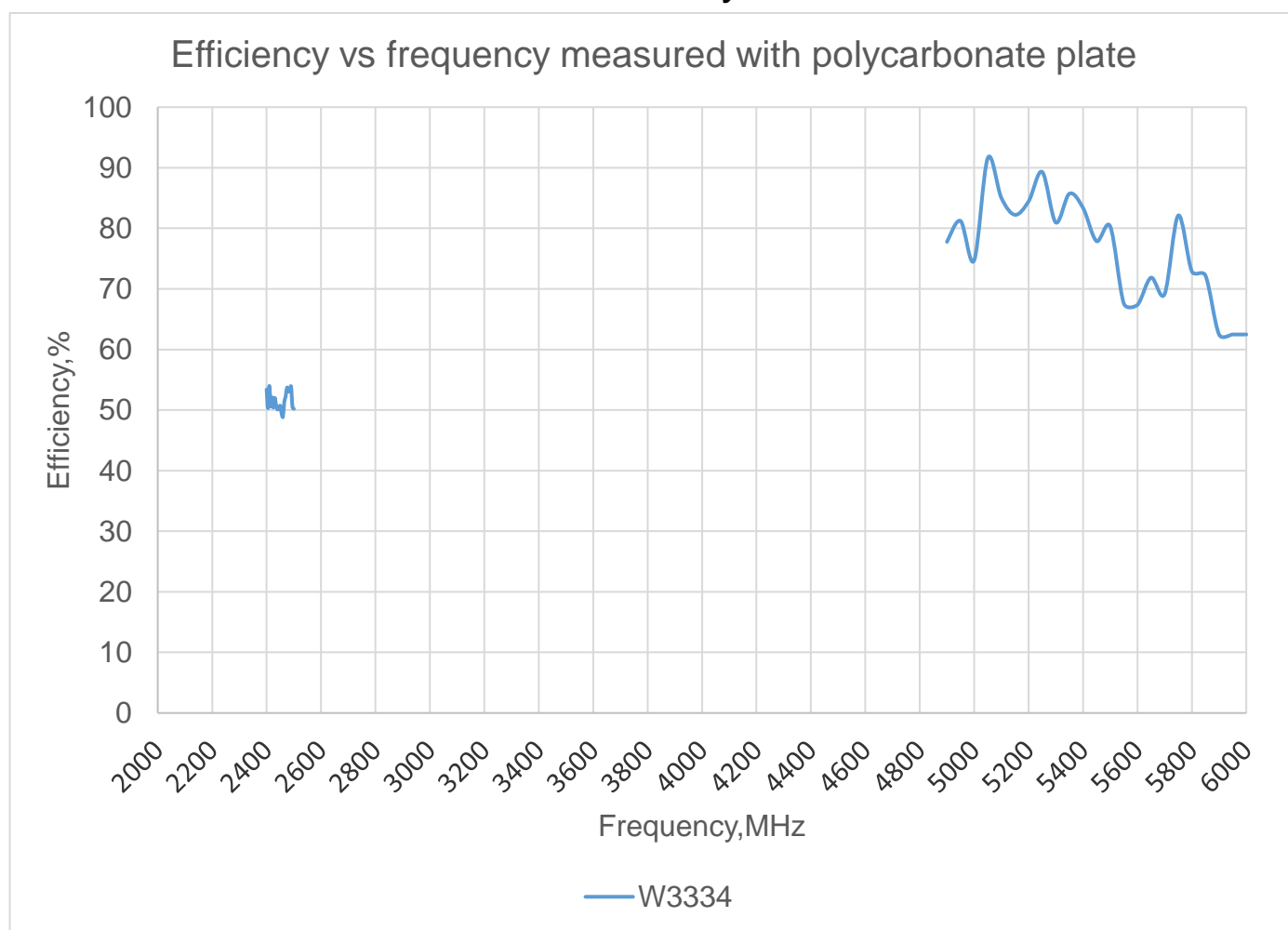
Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXXX

## CHARTS

### Efficiency



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

#### Issue: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

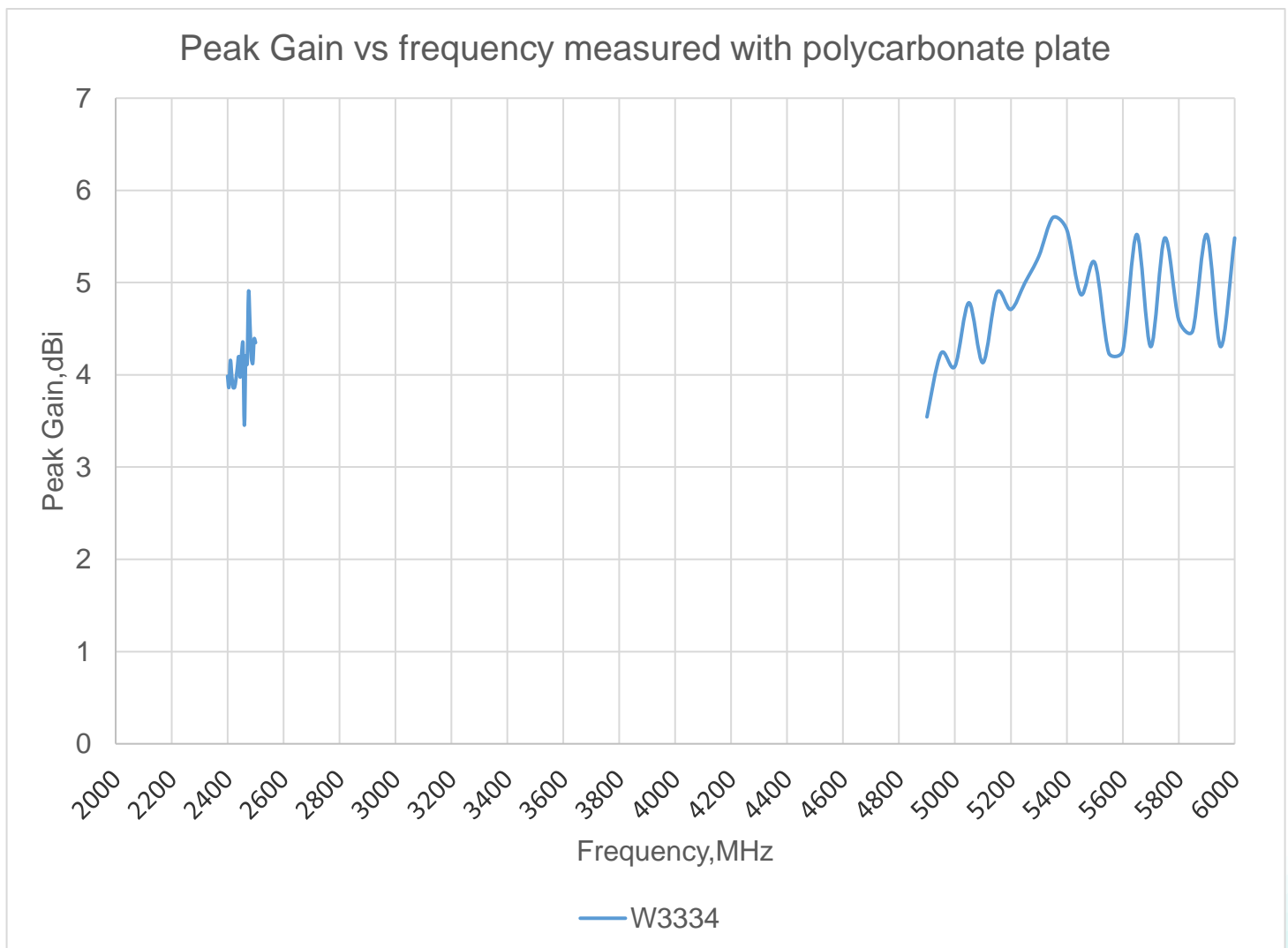
Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXXX

## CHARTS

### Peak Gain



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

#### Issue: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

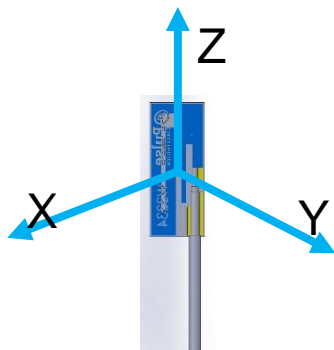


Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

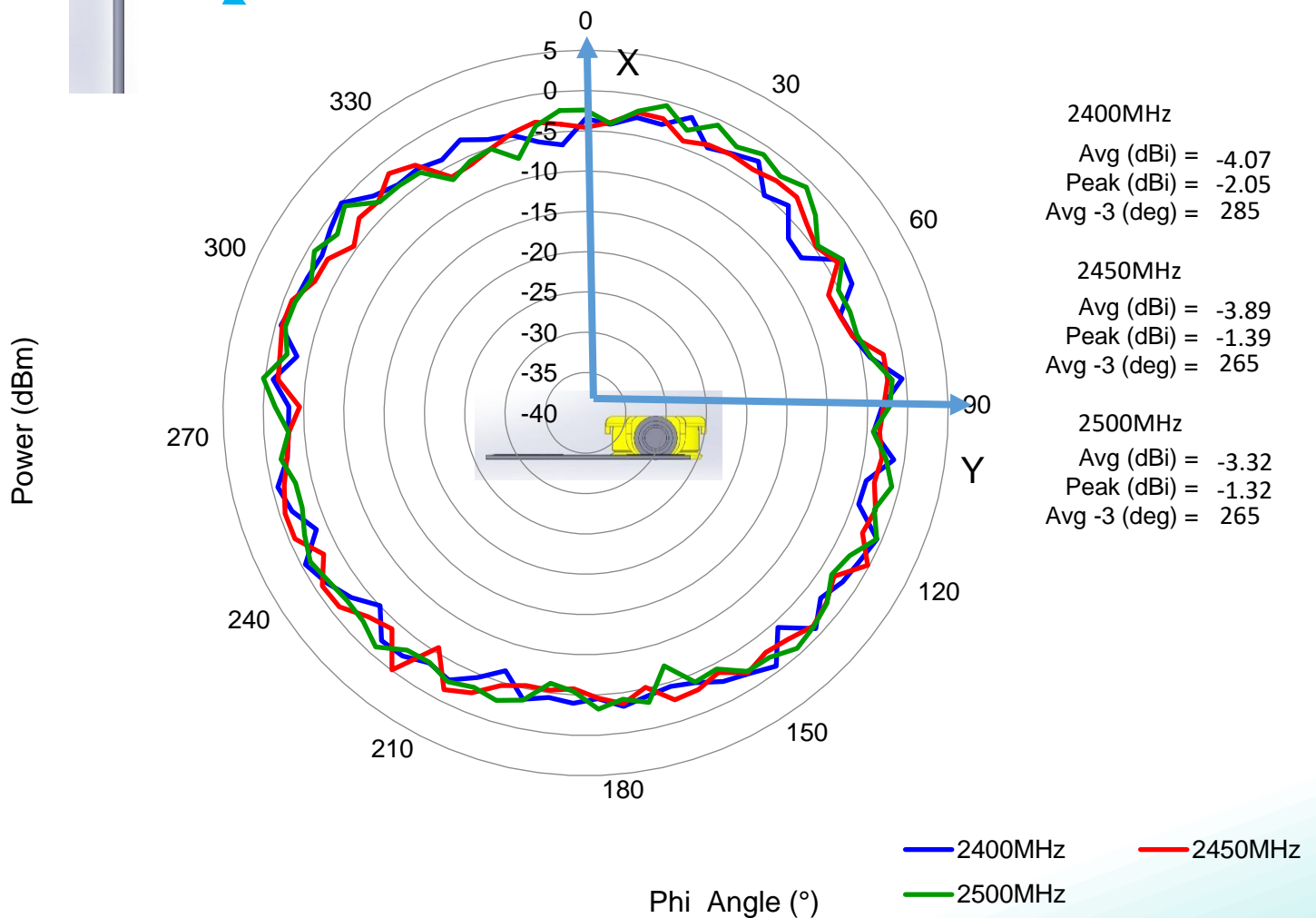
PART NUMBER: W3334XXXXXX

## CHARTS



### Gain Plots

#### XY Plane



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

#### Issue: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

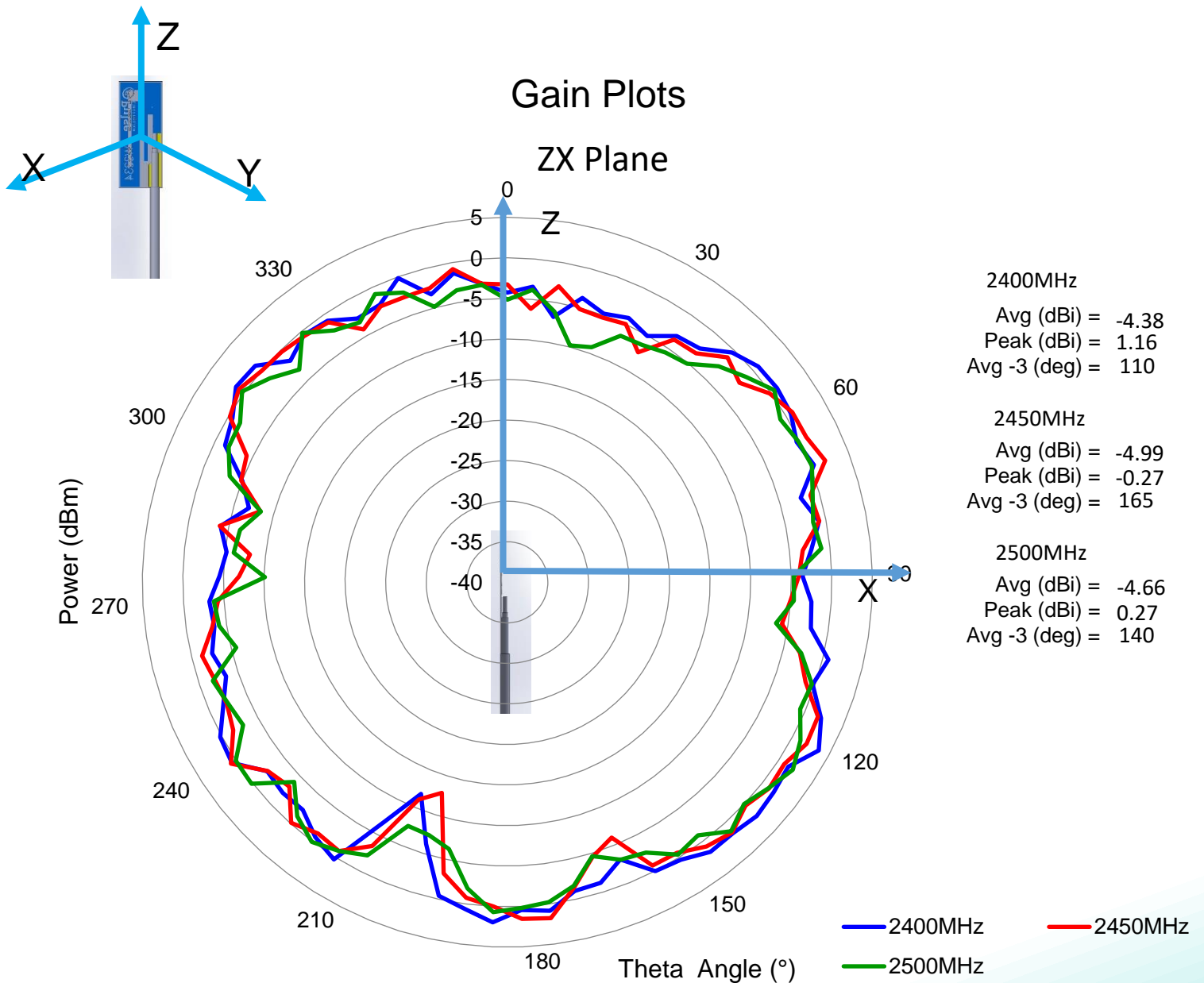
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

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: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

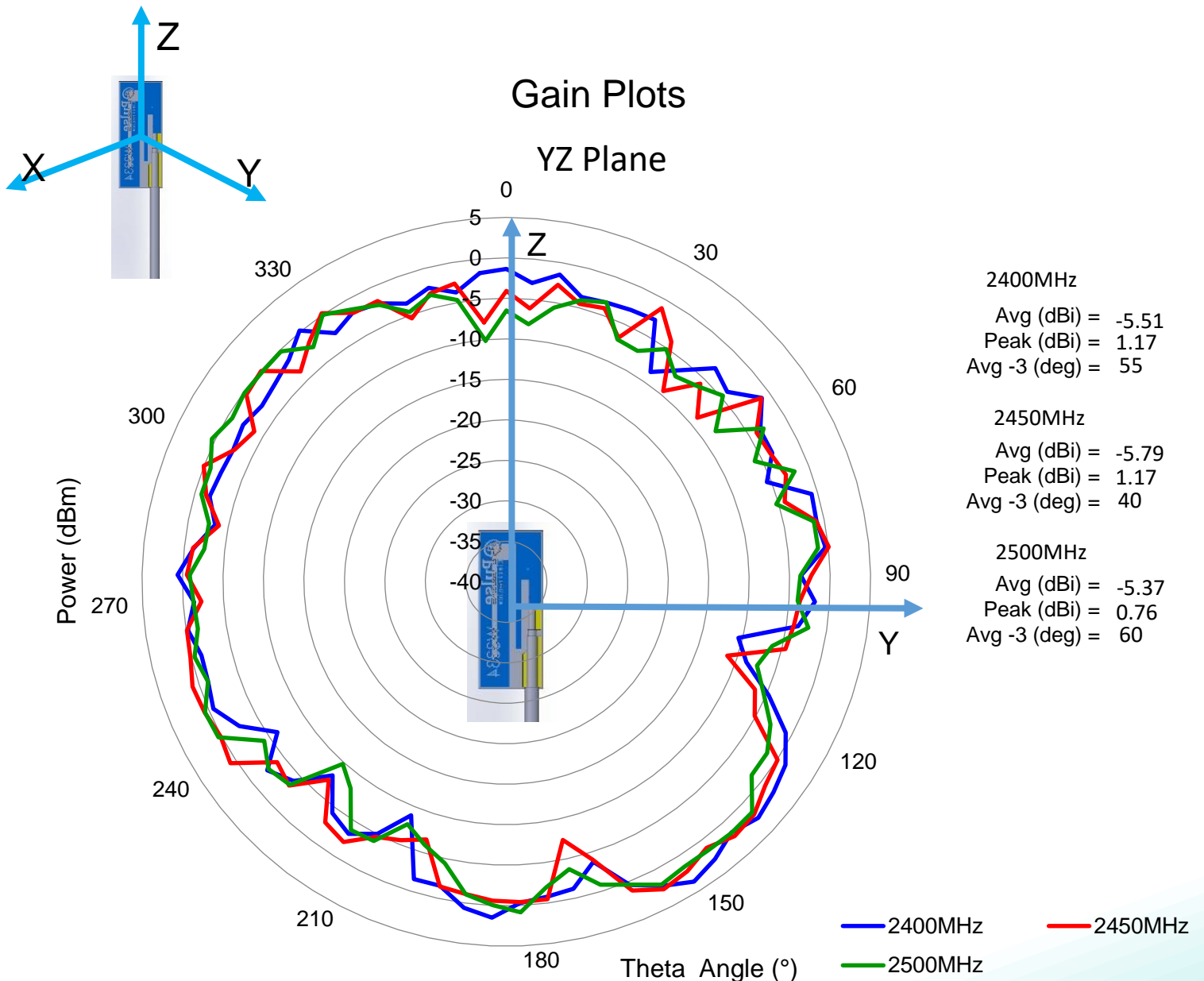
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

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**

### Issue: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

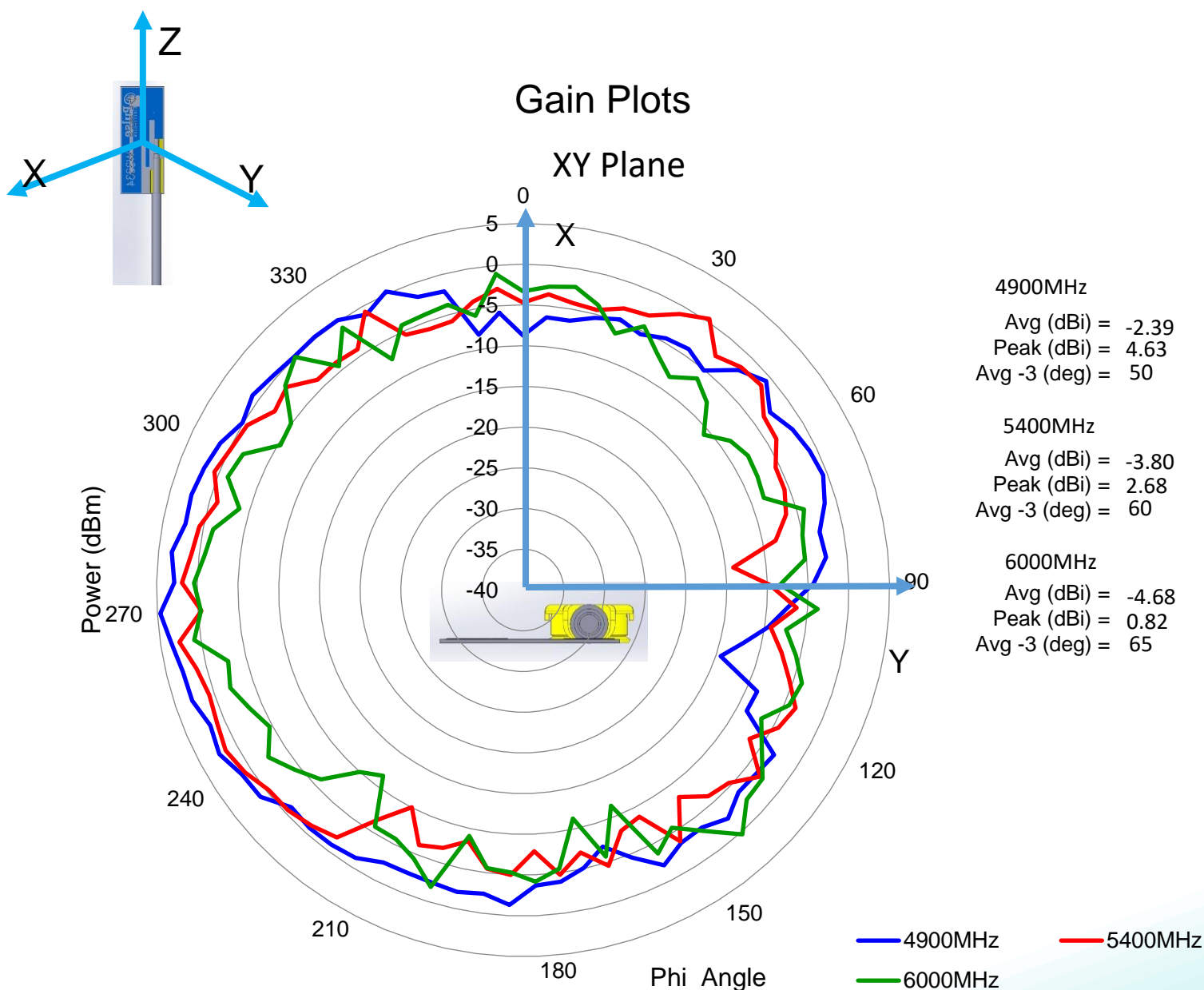
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

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: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

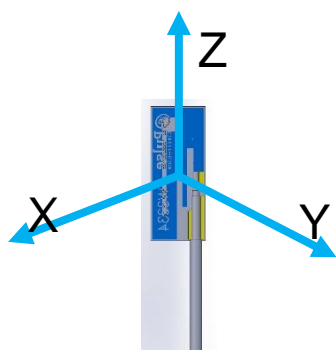
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Description: FPC Antenna 2.4/5.xGHz/DSRC

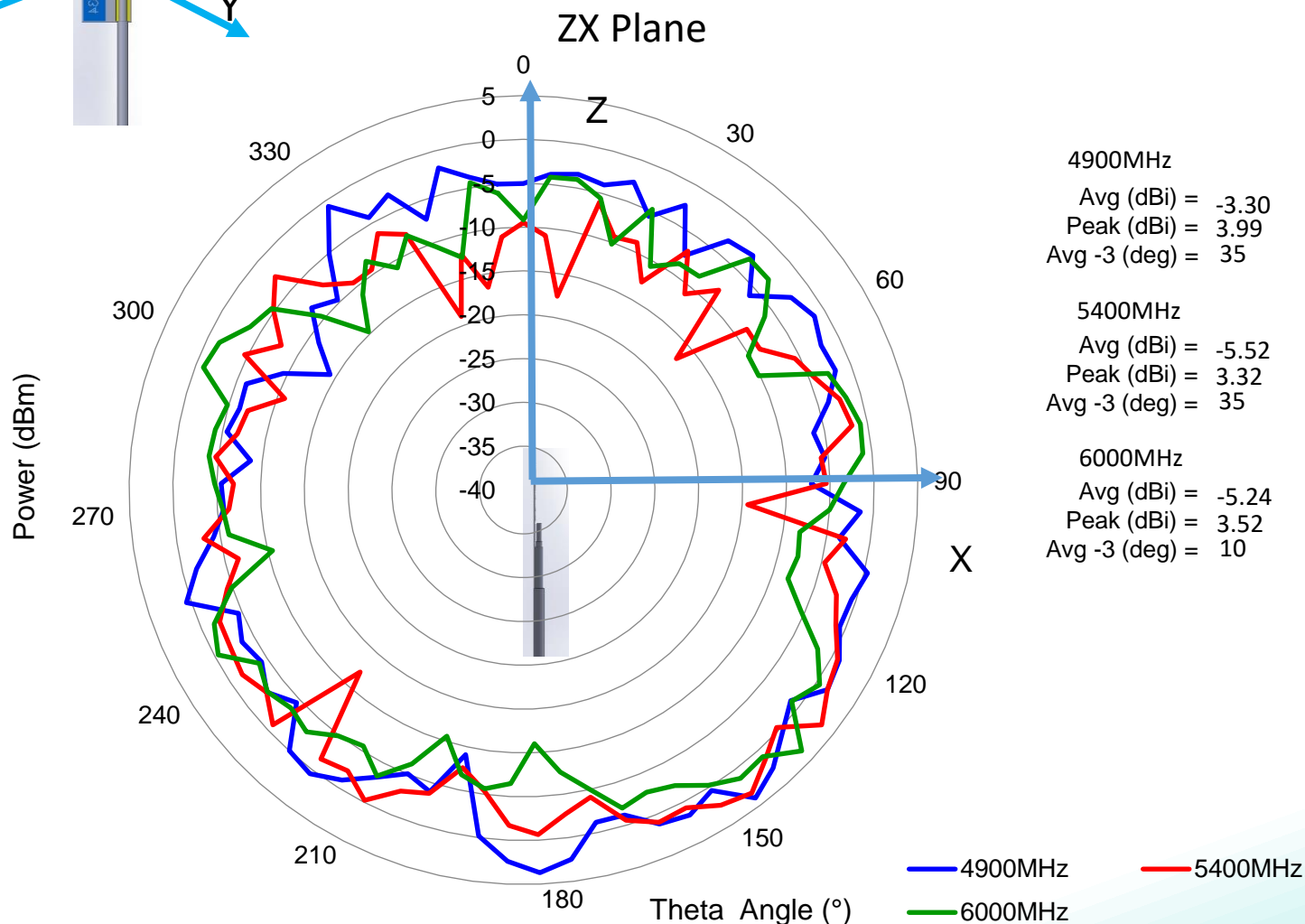
Series: Internal Antenna

PART NUMBER: W3334XXXXXX

## CHARTS



### Gain Plots



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

#### Issue: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

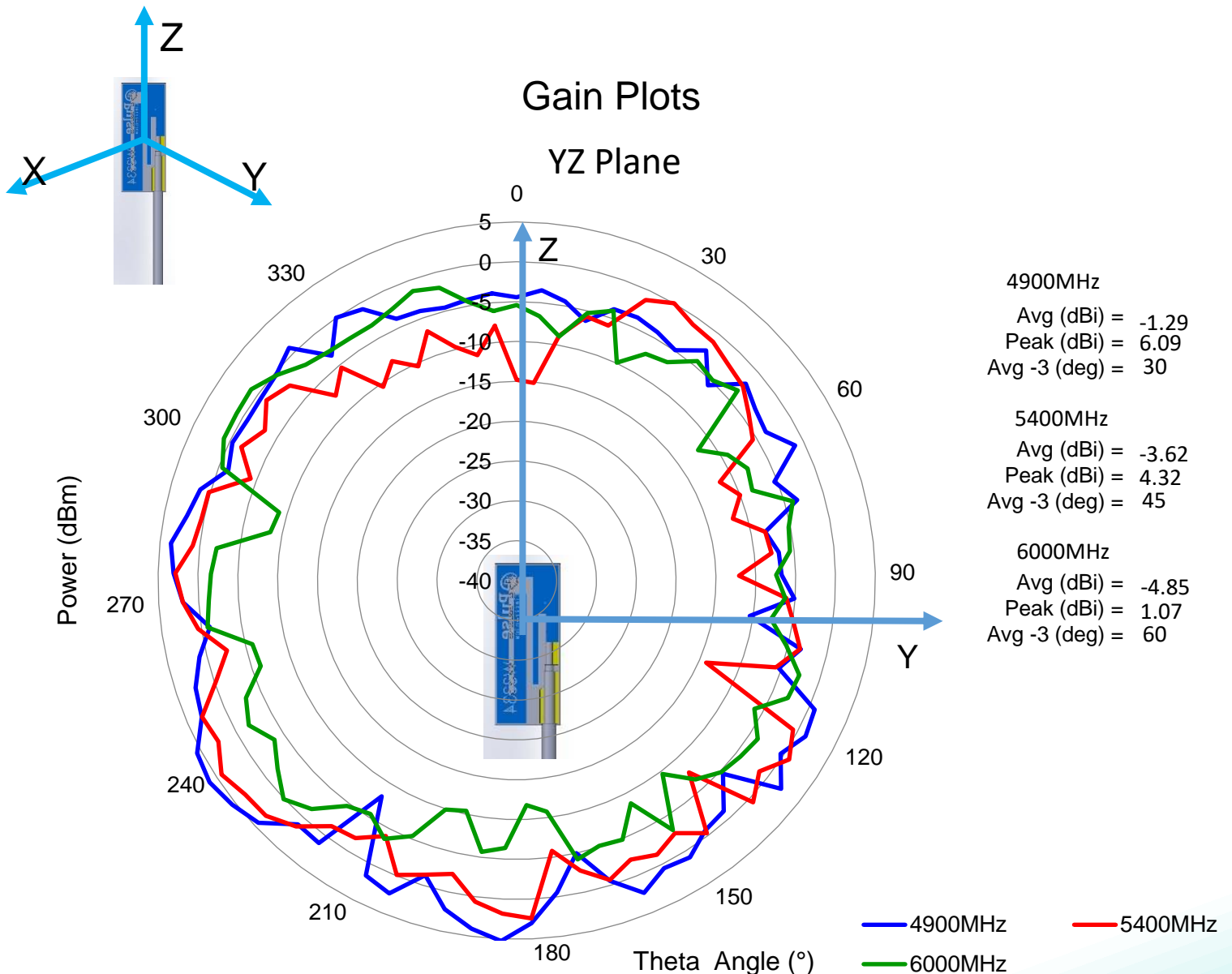
This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

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**

### Issue: 2532

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.



Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXX

## PACKAGING

10PCS/PE bag

10 PE bag/foam bag

12 foam bag/ carton box

Total 1200PCS/Carton box



### Issue: 2532

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

#### CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.