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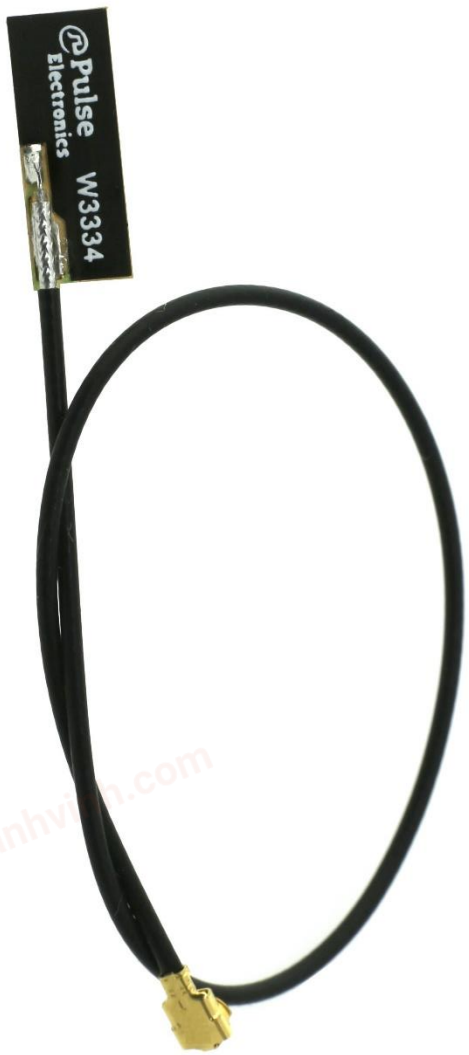
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TECHNICAL DATA SHEET

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

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Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

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TECHNICAL DATA SHEET

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

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TECHNICAL DATA SHEET

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

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TECHNICAL DATA SHEET

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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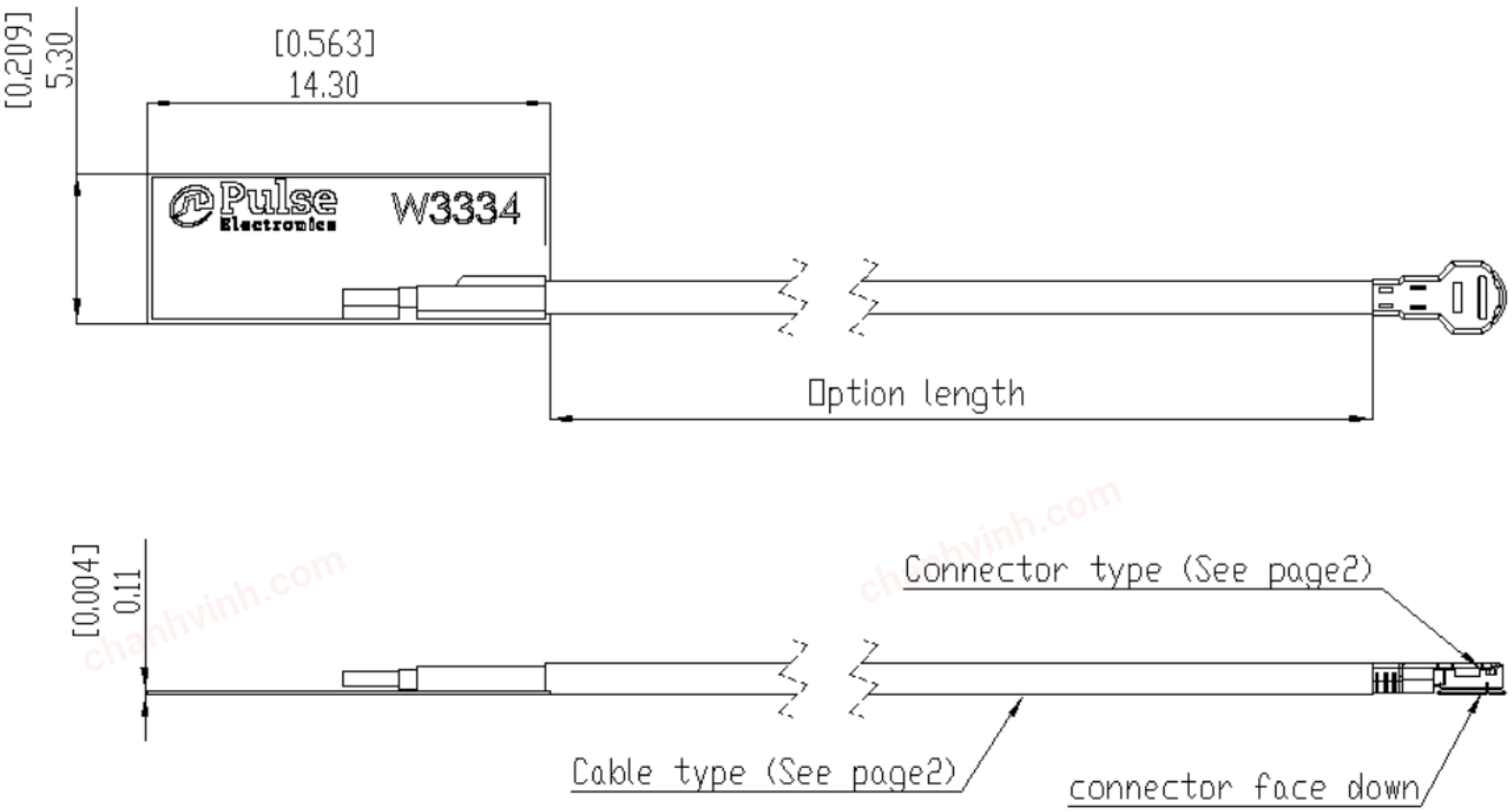
TECHNICAL DATA SHEET

Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXX

MECHANICAL DRAWING



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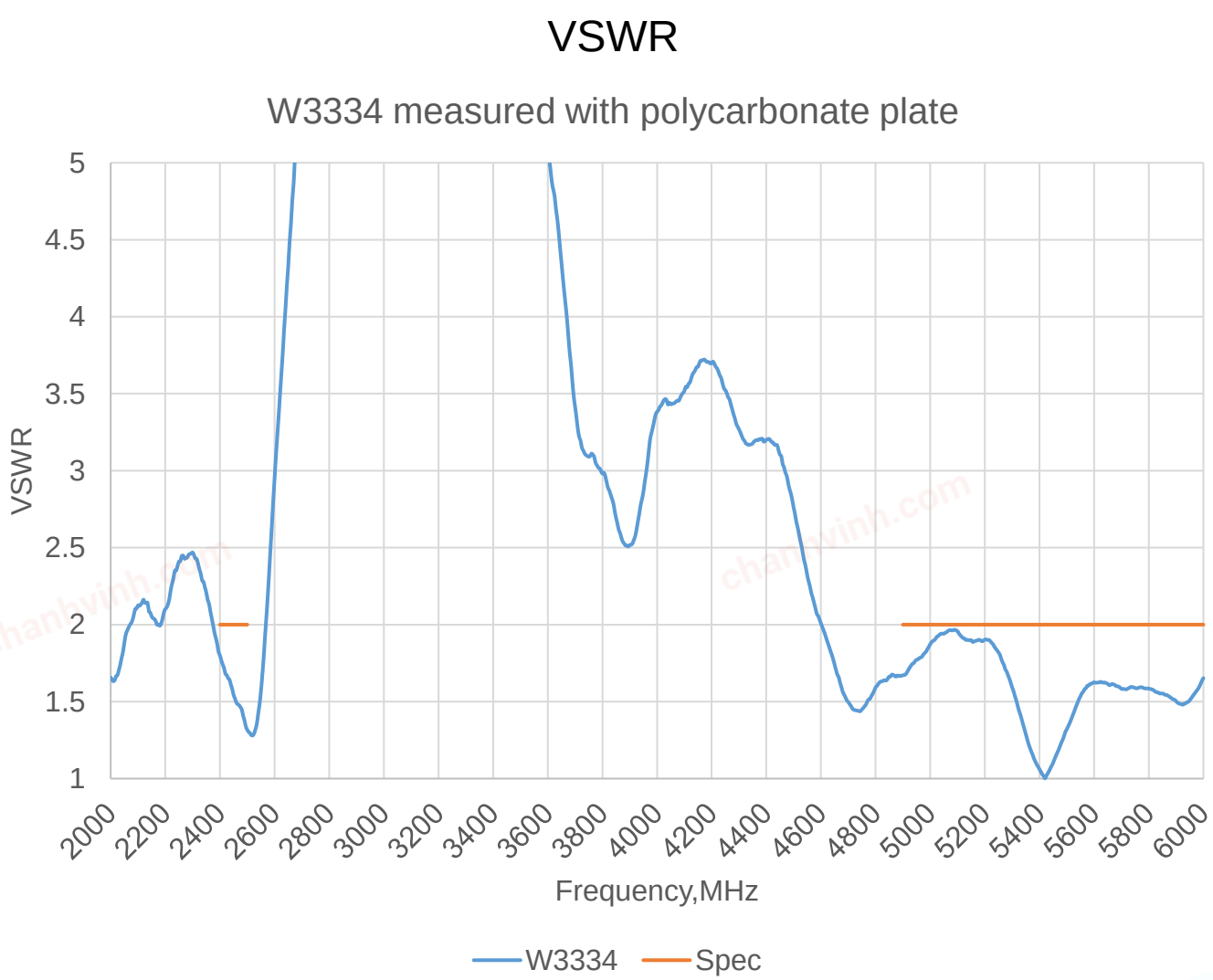
TECHNICAL DATA SHEET

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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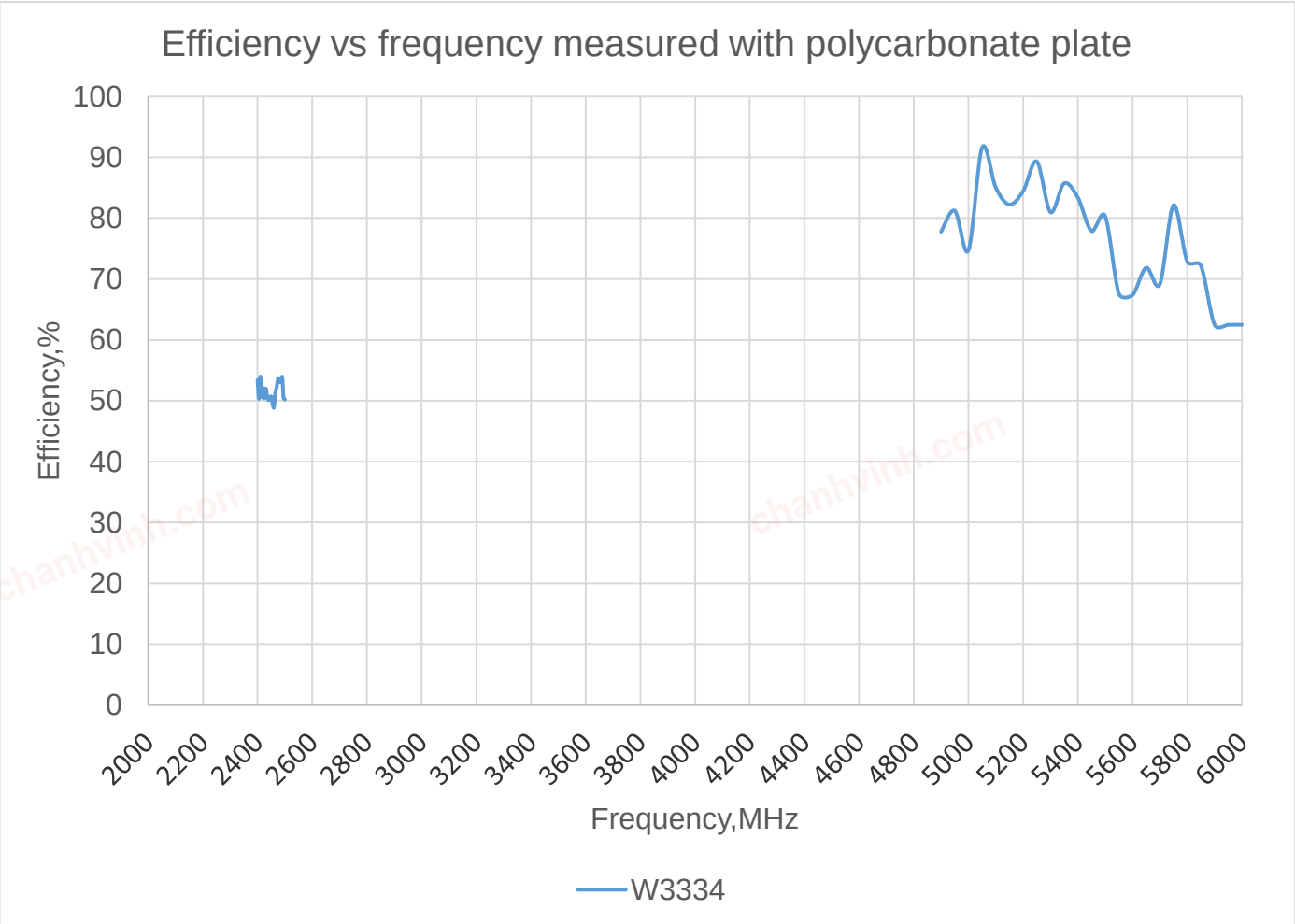
Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXX

CHARTS

Efficiency



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

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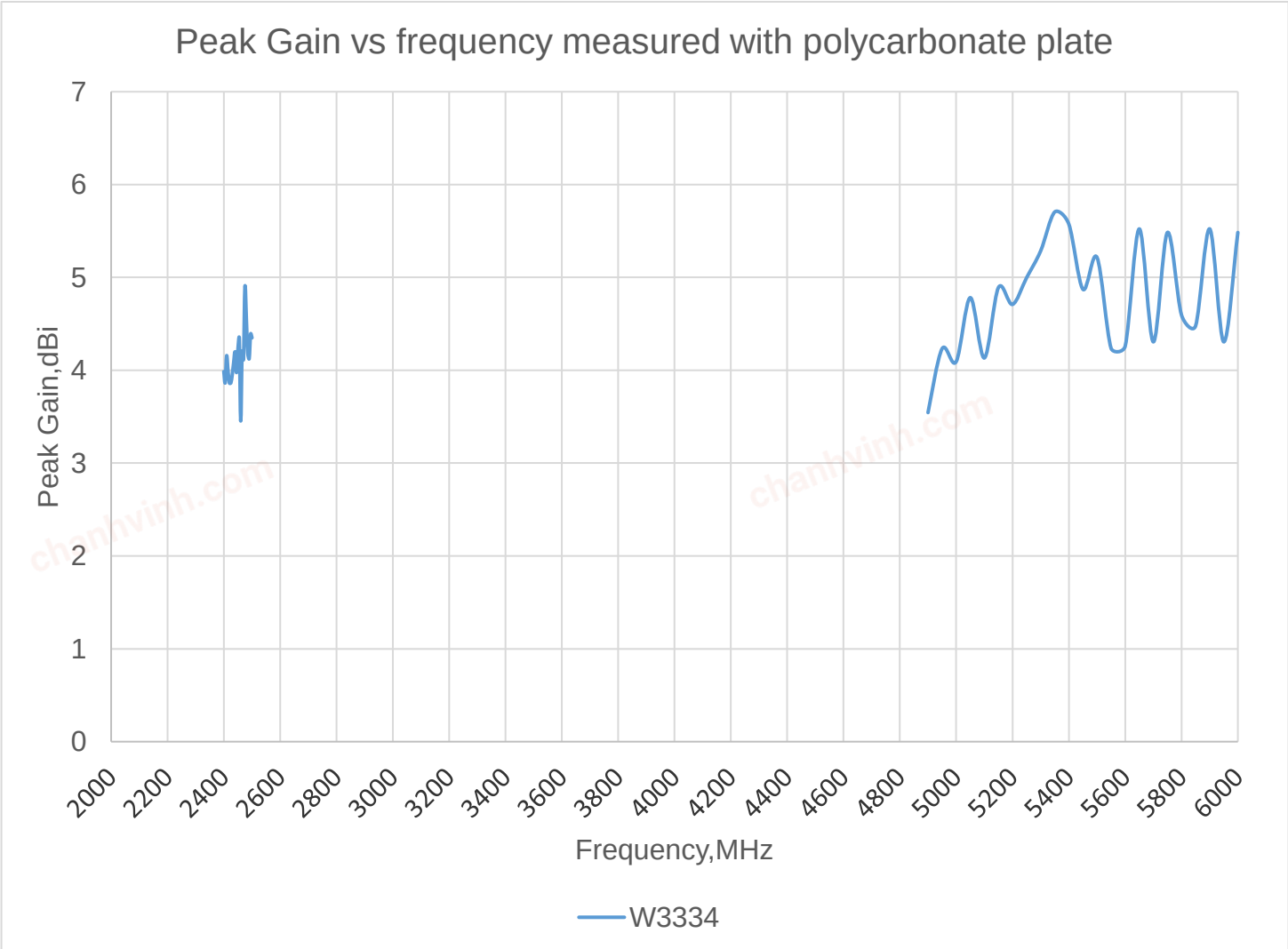
Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXX

CHARTS

Peak Gain



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

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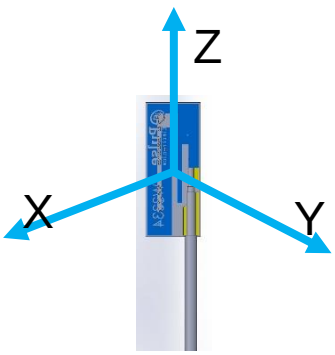
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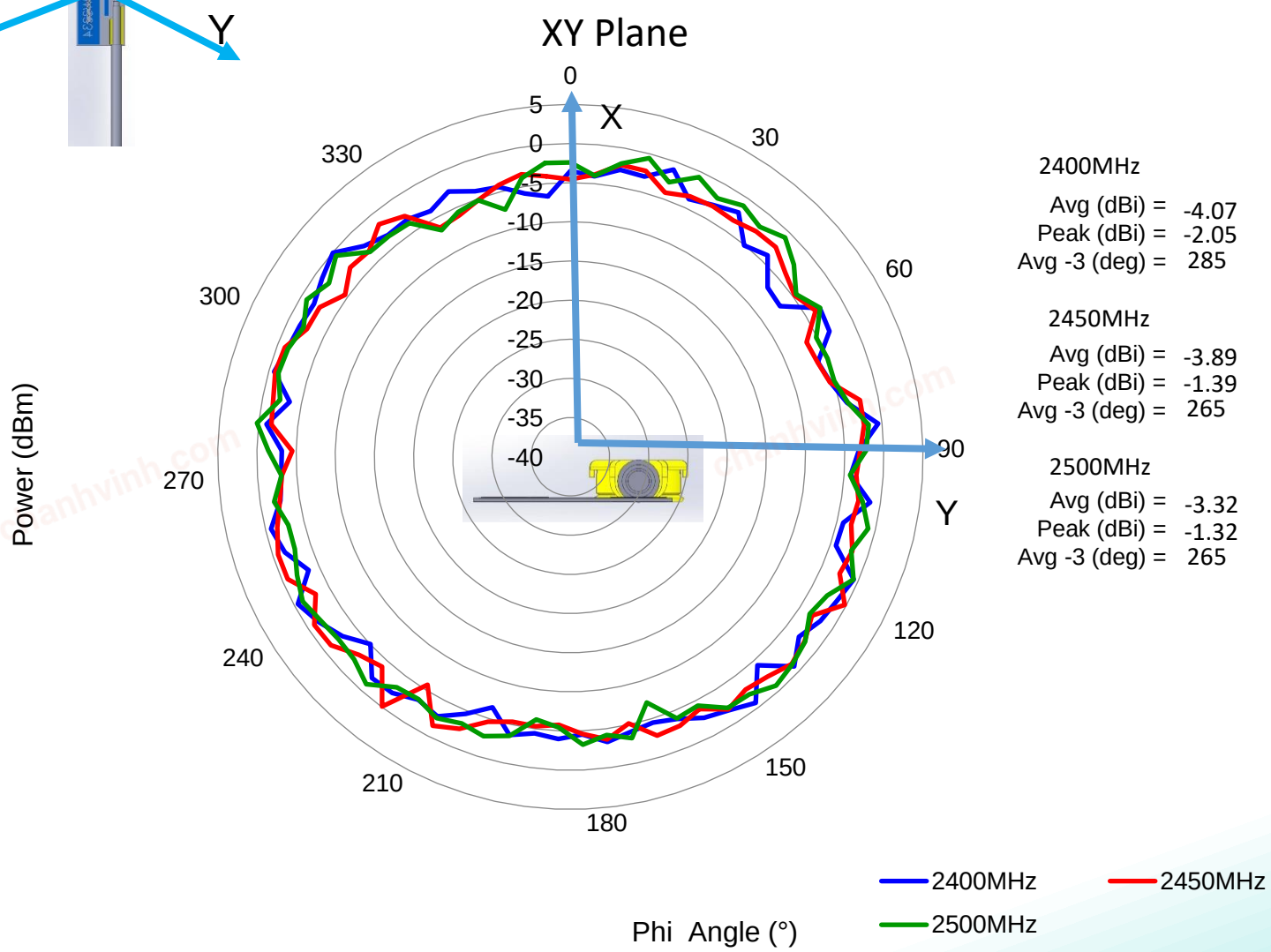
Series: Internal Antenna

PART NUMBER: W3334XXXXX

CHARTS



Gain Plots



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

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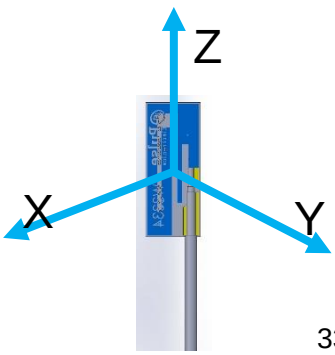
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Series: Internal Antenna

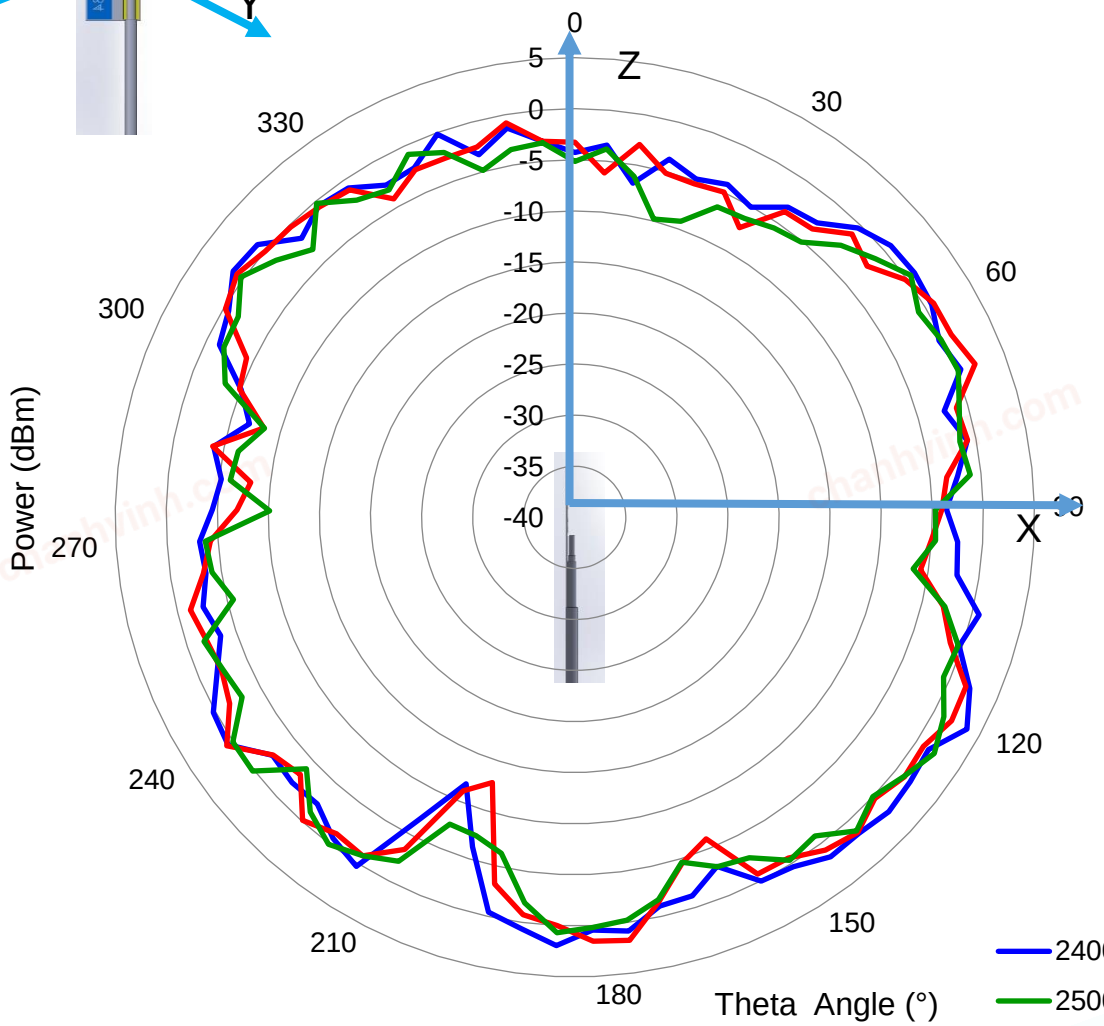
PART NUMBER: W3334XXXXX

CHARTS



Gain Plots

ZX Plane



2400MHz

Avg (dBi) =	-4.38
Peak (dBi) =	1.16
Avg -3 (deg) =	110

2450MHz

Avg (dBi) =	-4.99
Peak (dBi) =	-0.27
Avg -3 (deg) =	165

2500MHz

Avg (dBi) =	-4.66
Peak (dBi) =	0.27
Avg -3 (deg) =	140

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

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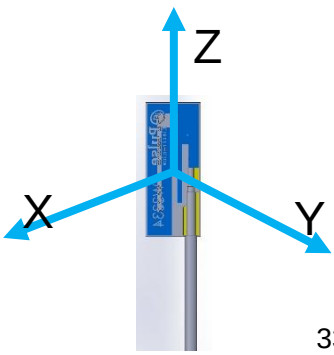
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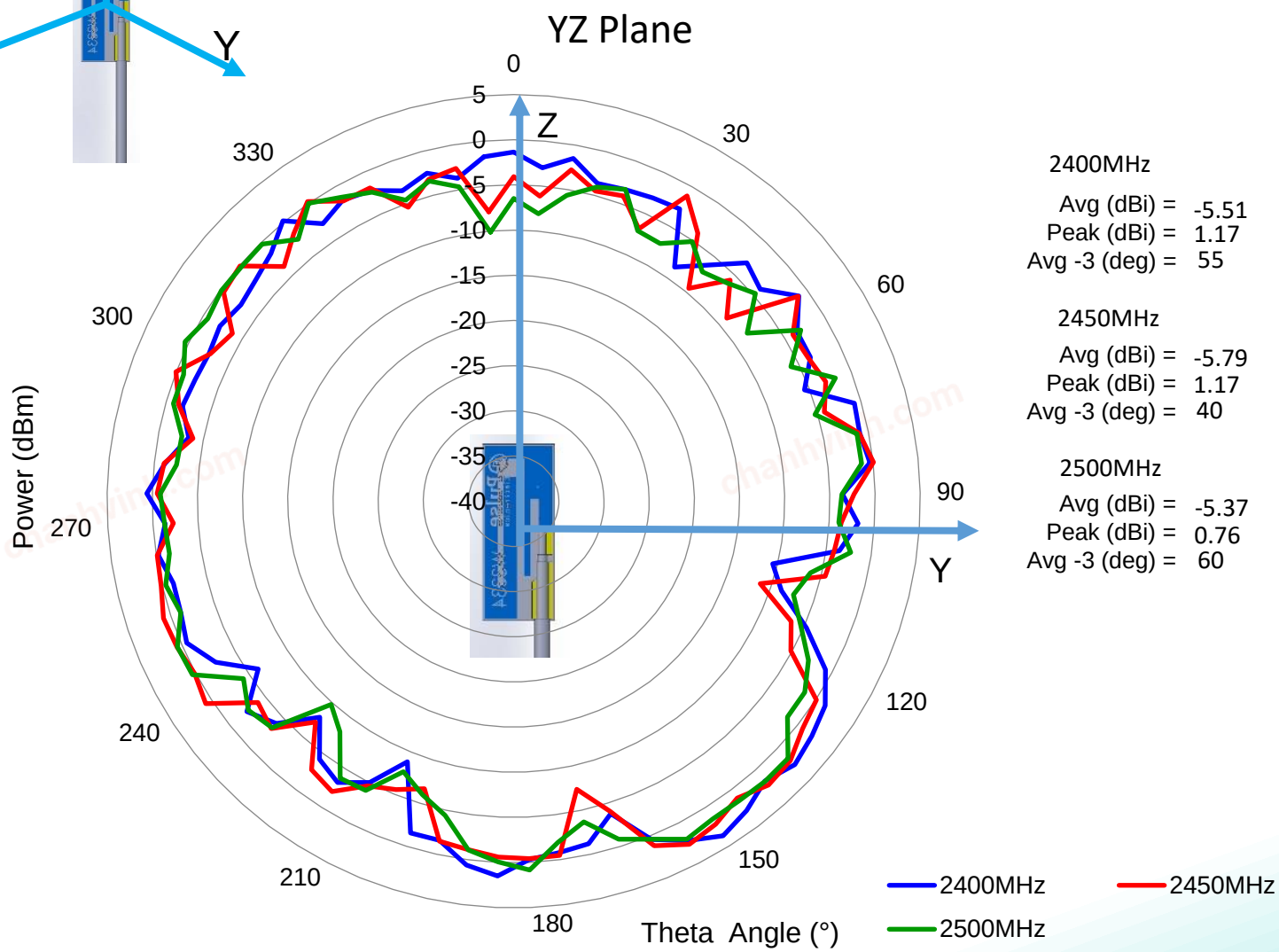
Series: Internal Antenna

PART NUMBER: W3334XXXXX

CHARTS



Gain Plots



2400MHz
Avg (dBi) = -5.51
Peak (dBi) = 1.17
Avg -3 (deg) = 55

2450MHz
Avg (dBi) = -5.79
Peak (dBi) = 1.17
Avg -3 (deg) = 40

2500MHz
Avg (dBi) = -5.37
Peak (dBi) = 0.76
Avg -3 (deg) = 60

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

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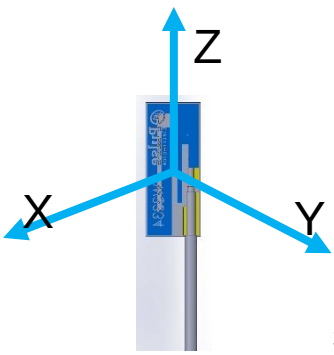
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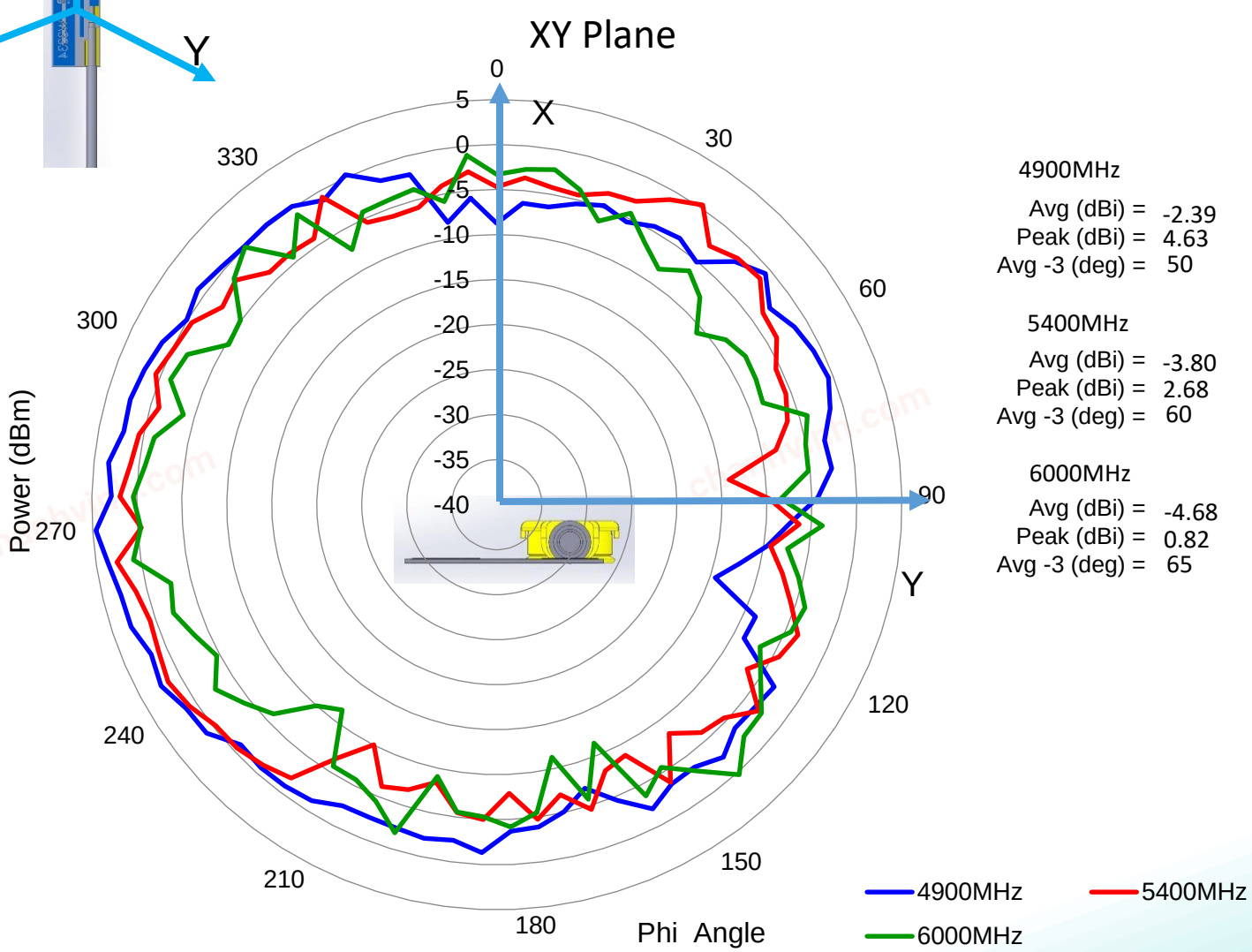
Series: Internal Antenna

PART NUMBER: W3334XXXXX

CHARTS



Gain Plots



4900MHz
Avg (dBi) = -2.39
Peak (dBi) = 4.63
Avg -3 (deg) = 50

5400MHz
Avg (dBi) = -3.80
Peak (dBi) = 2.68
Avg -3 (deg) = 60

6000MHz
Avg (dBi) = -4.68
Peak (dBi) = 0.82
Avg -3 (deg) = 65

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

Issue: 2532

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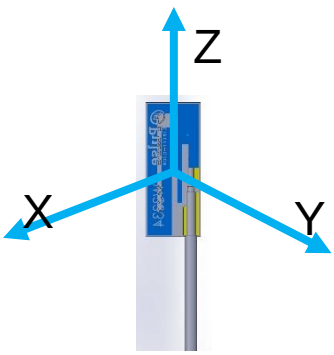
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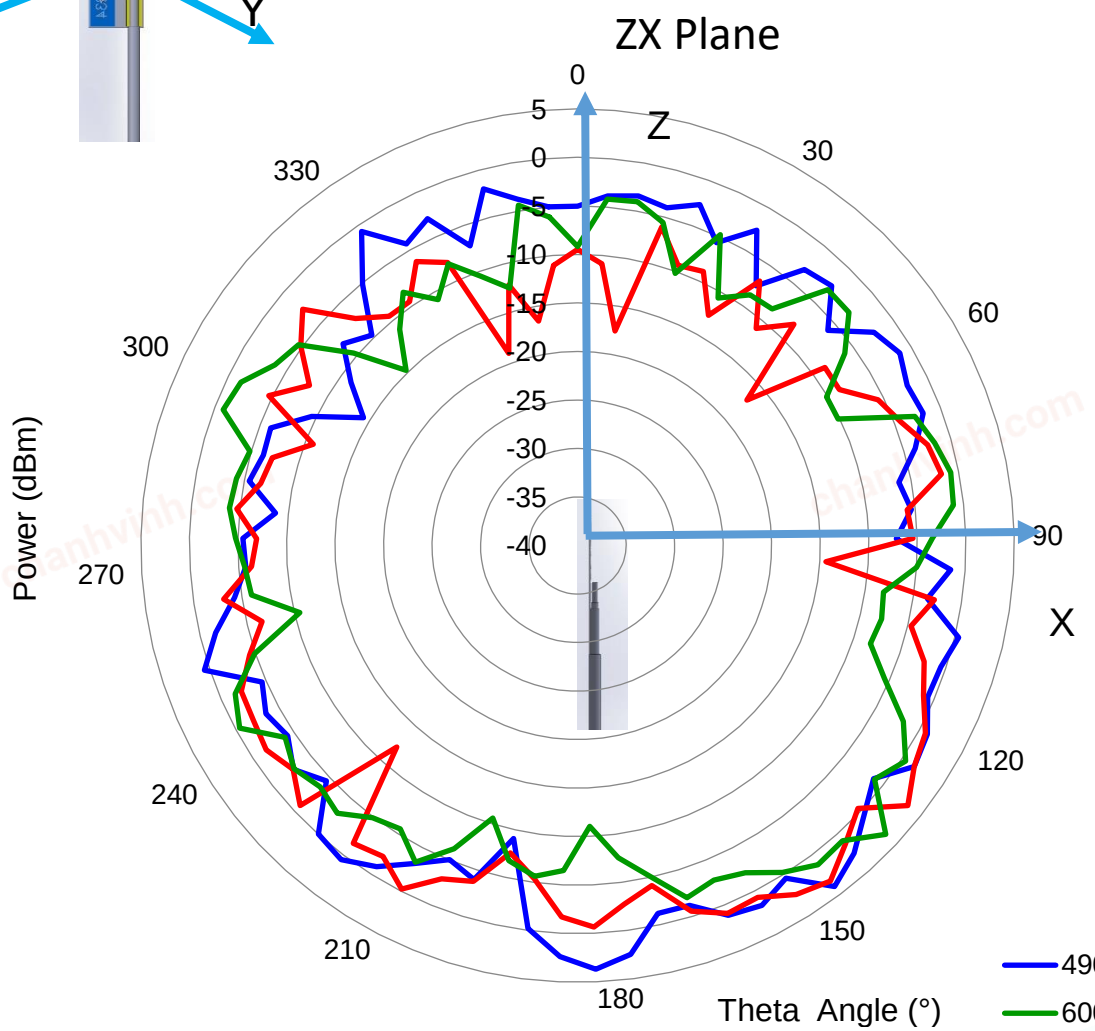
Series: Internal Antenna

PART NUMBER: W3334XXXXX

CHARTS



Gain Plots



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

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

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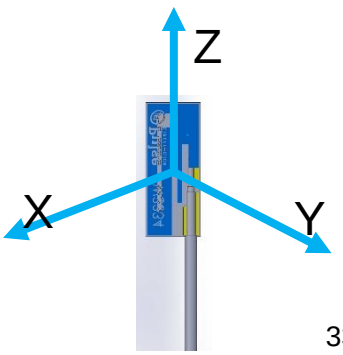
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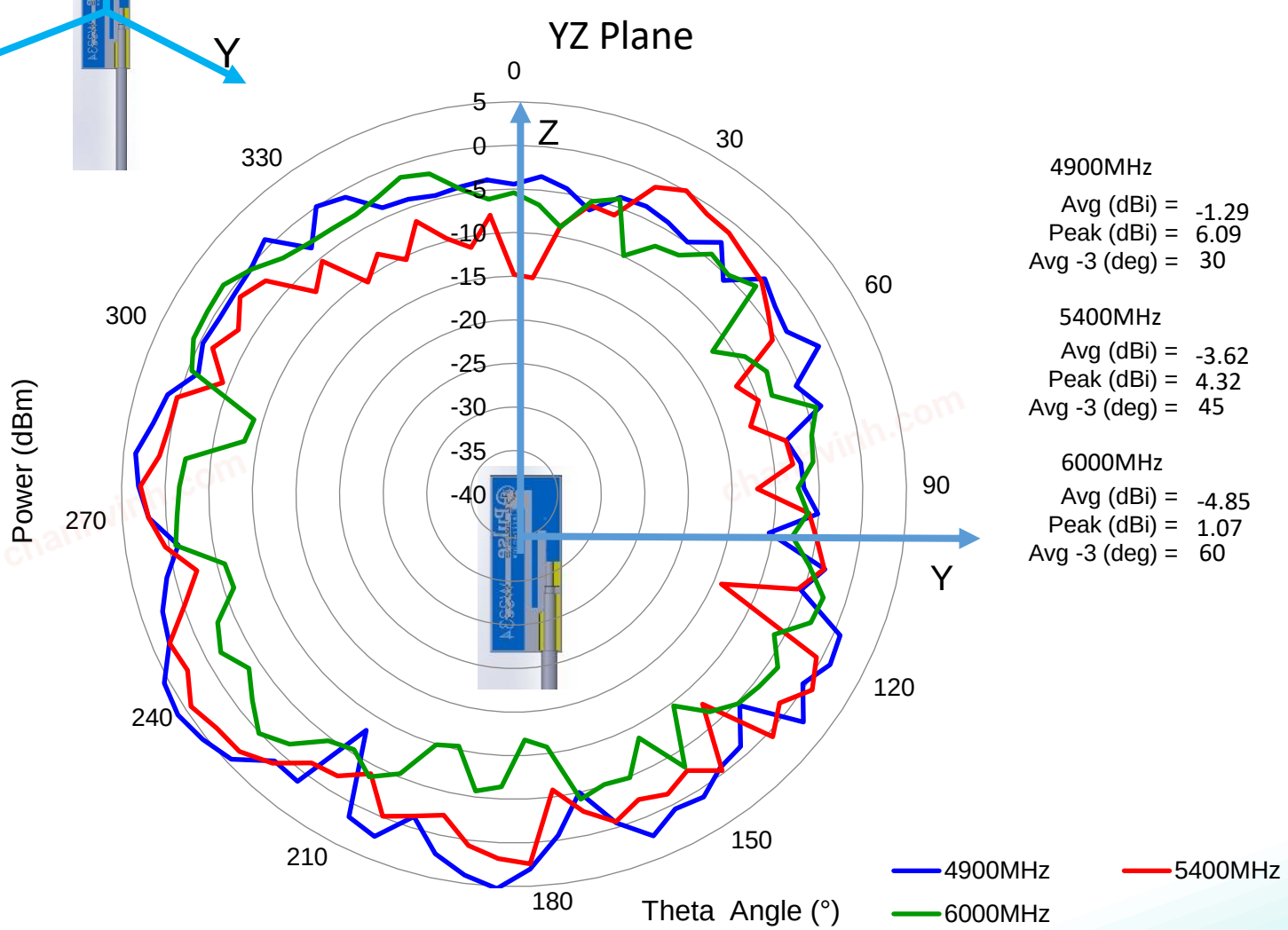
Series: Internal Antenna

PART NUMBER: W3334XXXXX

CHARTS



Gain Plots



4900MHz
Avg (dBi) = -1.29
Peak (dBi) = 6.09
Avg -3 (deg) = 30

5400MHz
Avg (dBi) = -3.62
Peak (dBi) = 4.32
Avg -3 (deg) = 45

6000MHz
Avg (dBi) = -4.85
Peak (dBi) = 1.07
Avg -3 (deg) = 60

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

Issue: 2532

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TECHNICAL DATA SHEET

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





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