

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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Pulse (Suzhou) Wireless Products Co, Inc.
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Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



Description: FPC Antenna 2.4/5.xGHz/DSRC

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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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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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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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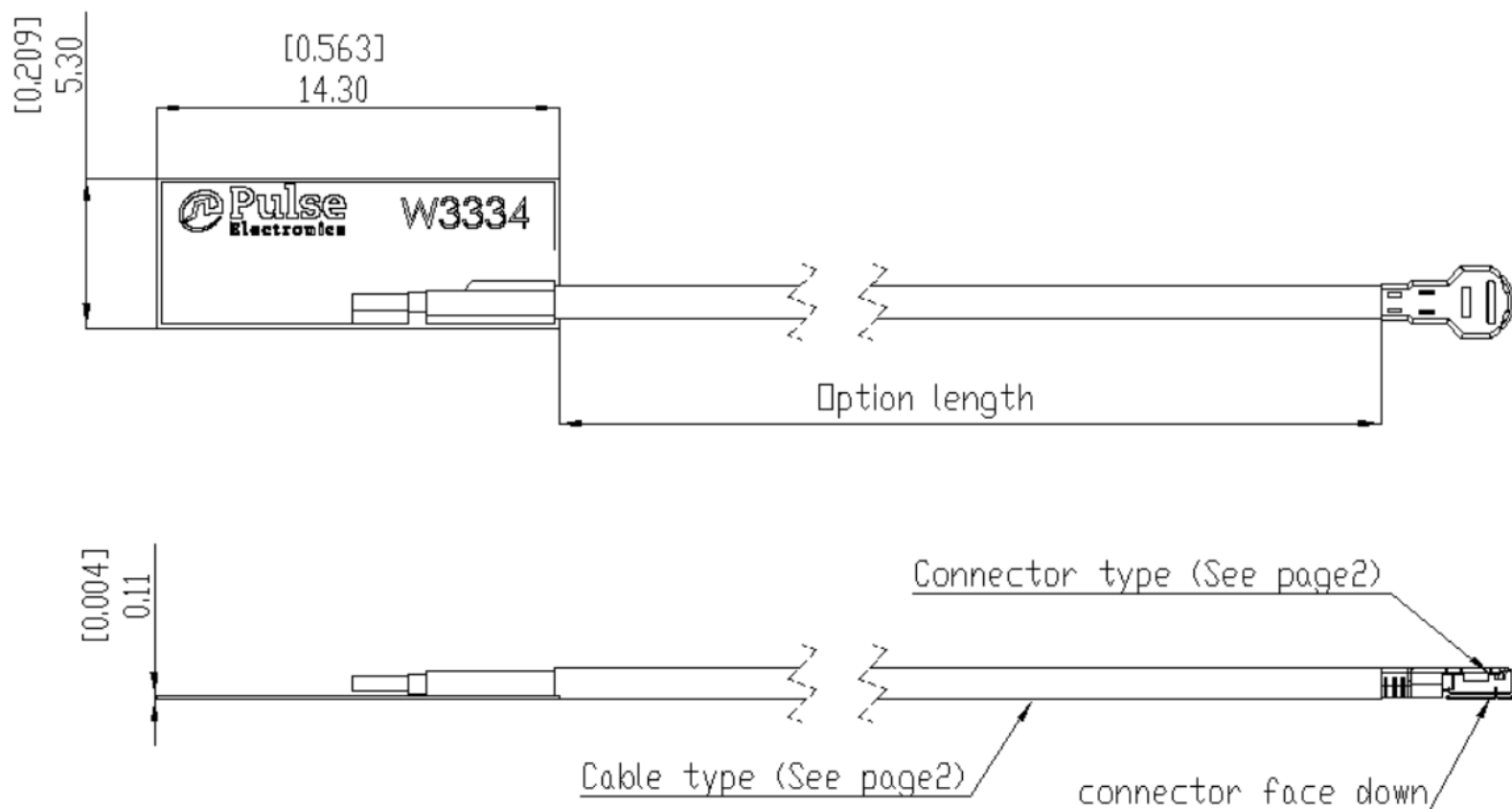
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MECHANICAL DRAWING



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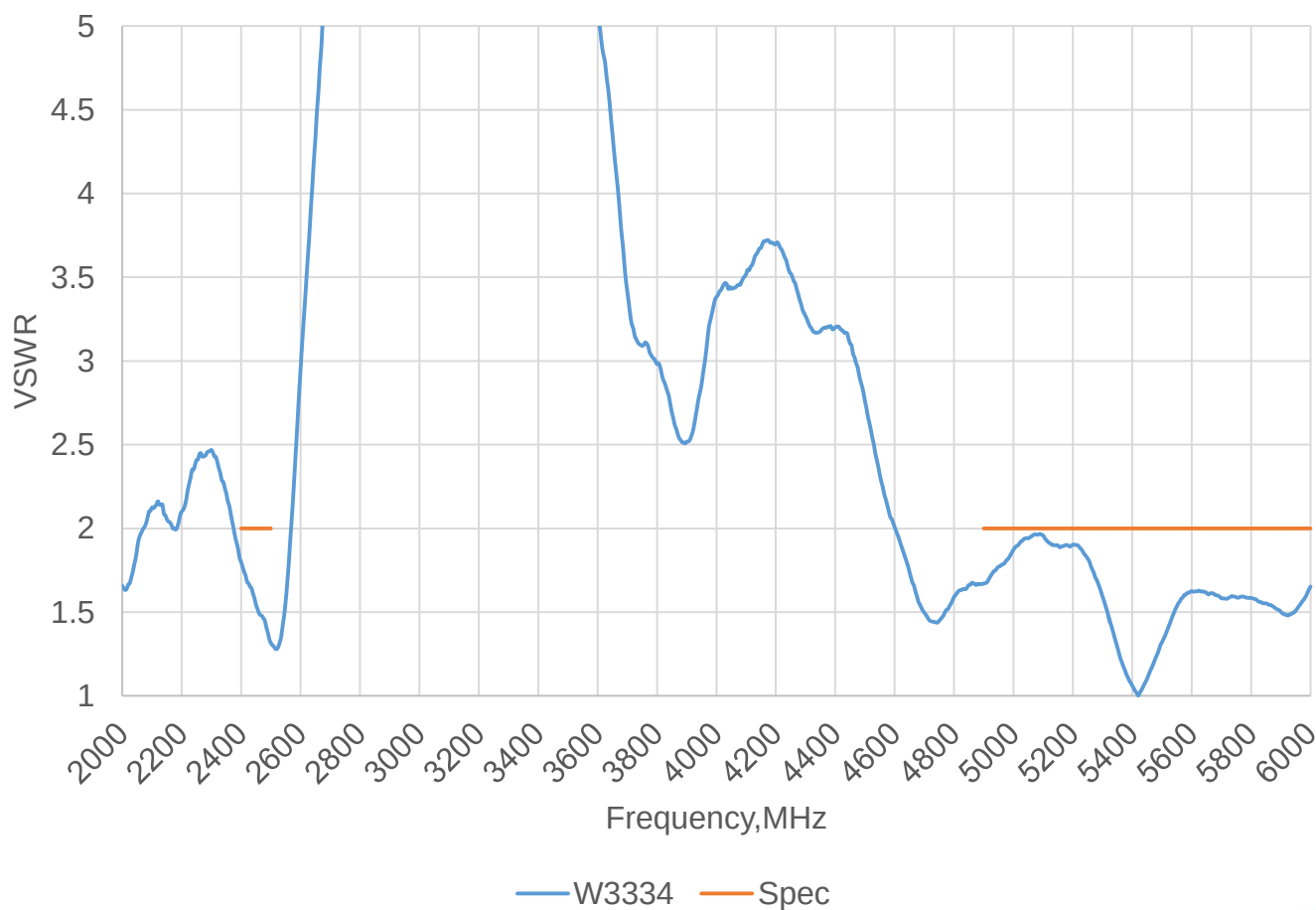
Series: Internal Antenna

PART NUMBER: W3334XXXXXX

CHARTS

VSWR

W3334 measured with polycarbonate plate



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

Issue: 1922

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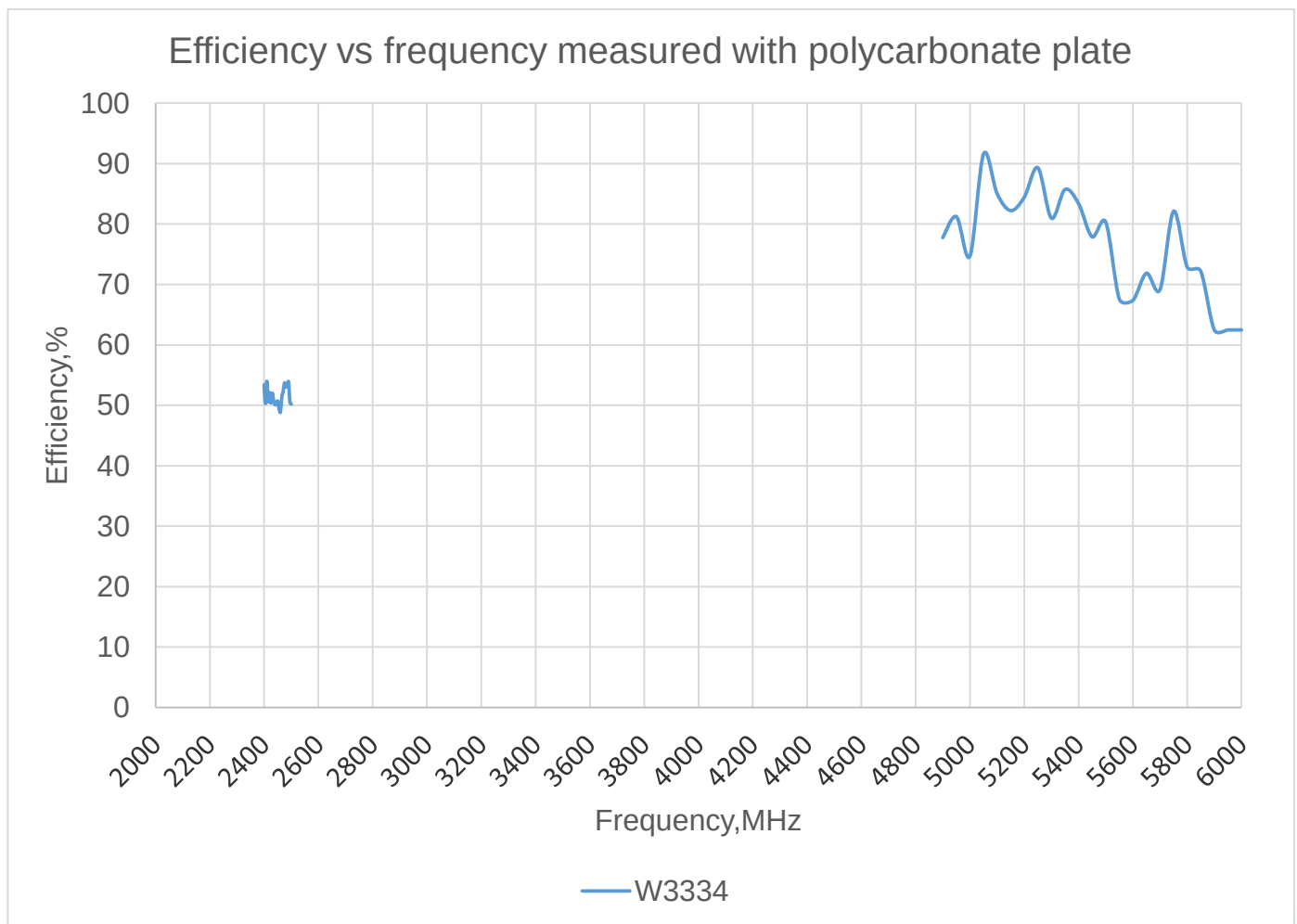
Description: FPC Antenna 2.4/5.xGHz/DSRC

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CHARTS

Efficiency



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

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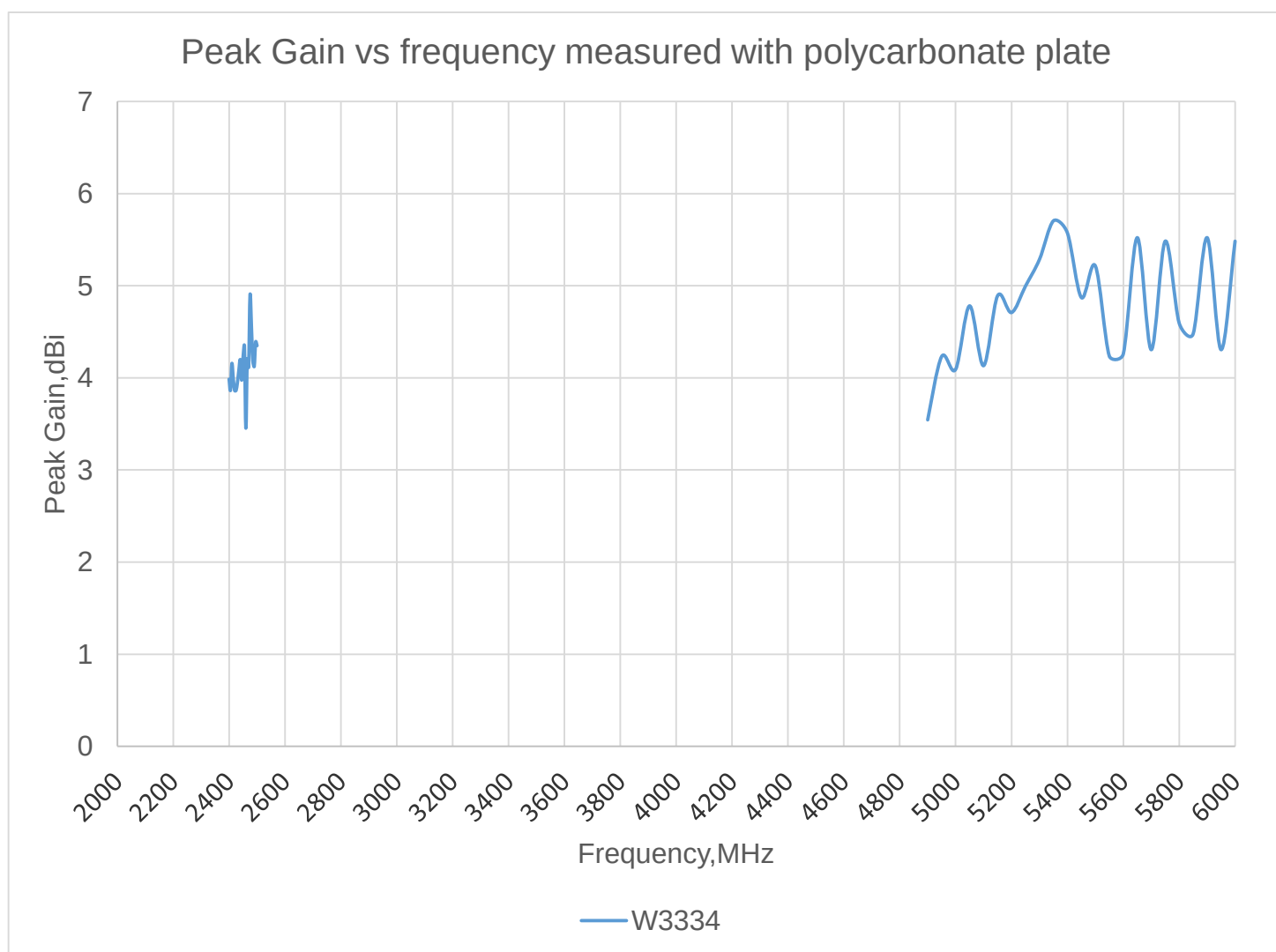
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CHARTS

Peak Gain



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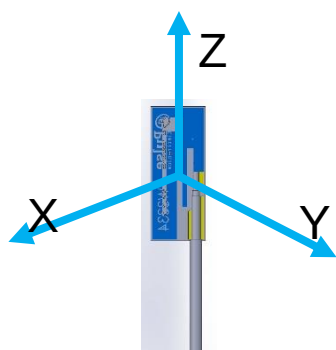
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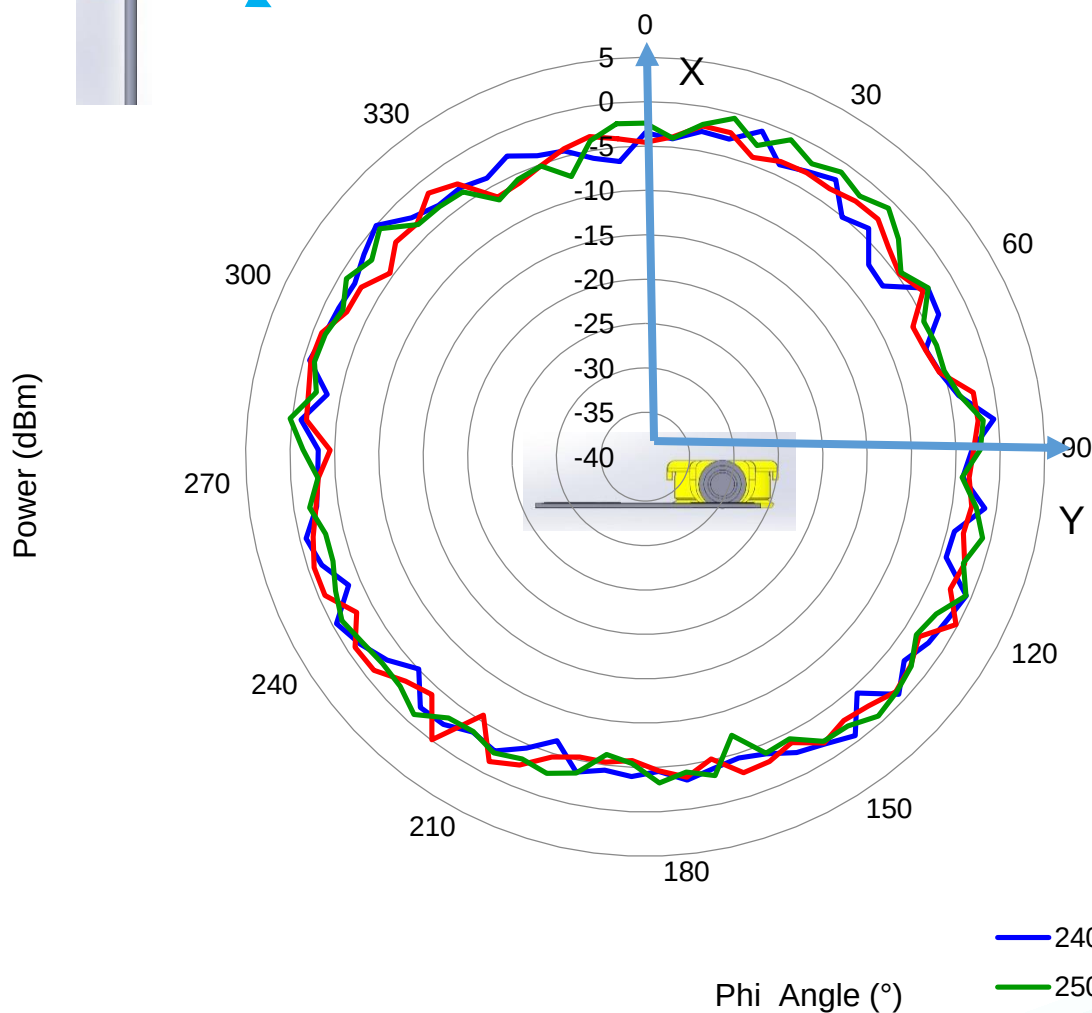
PART NUMBER: W3334XXXXXX

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

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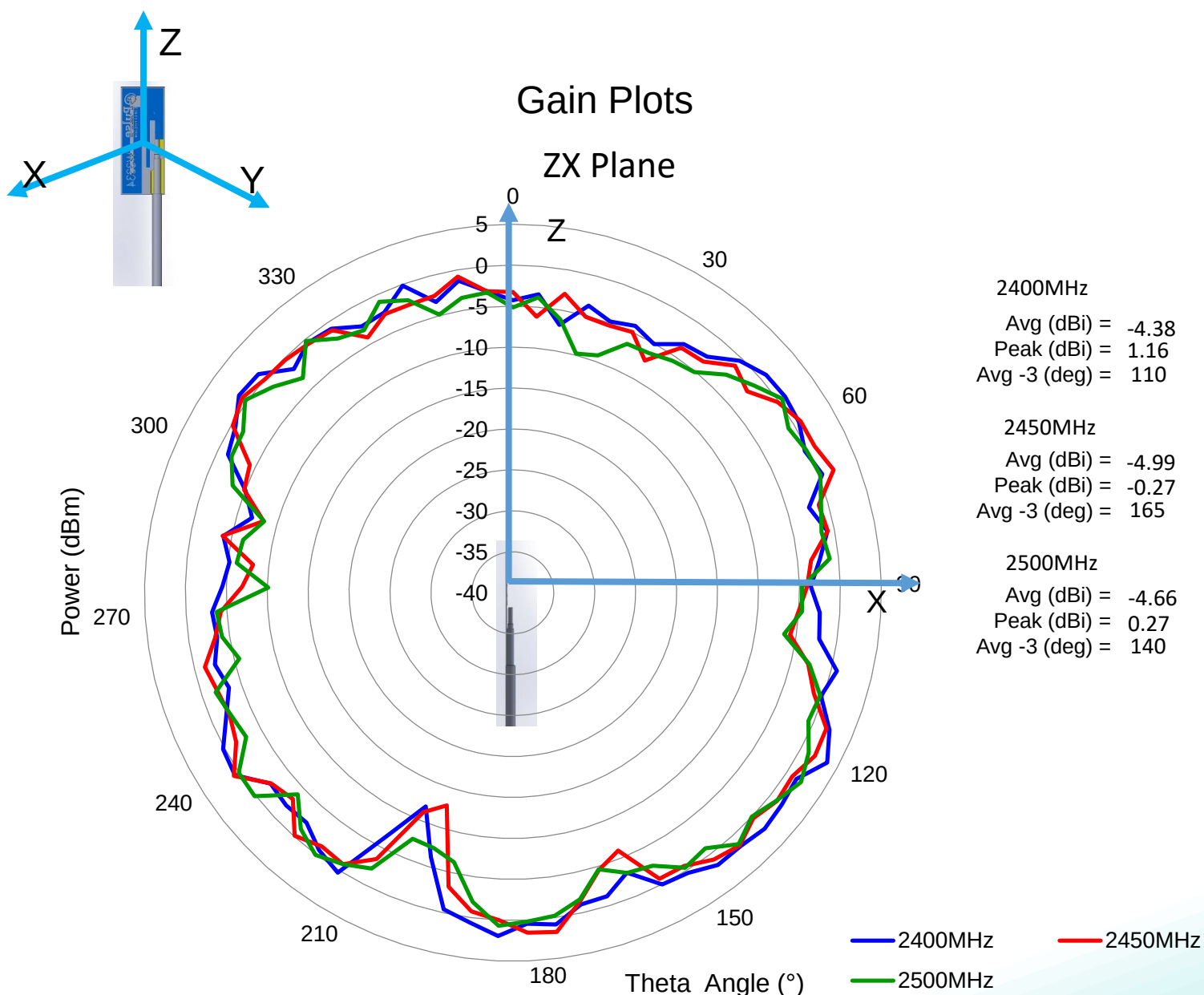
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CHARTS



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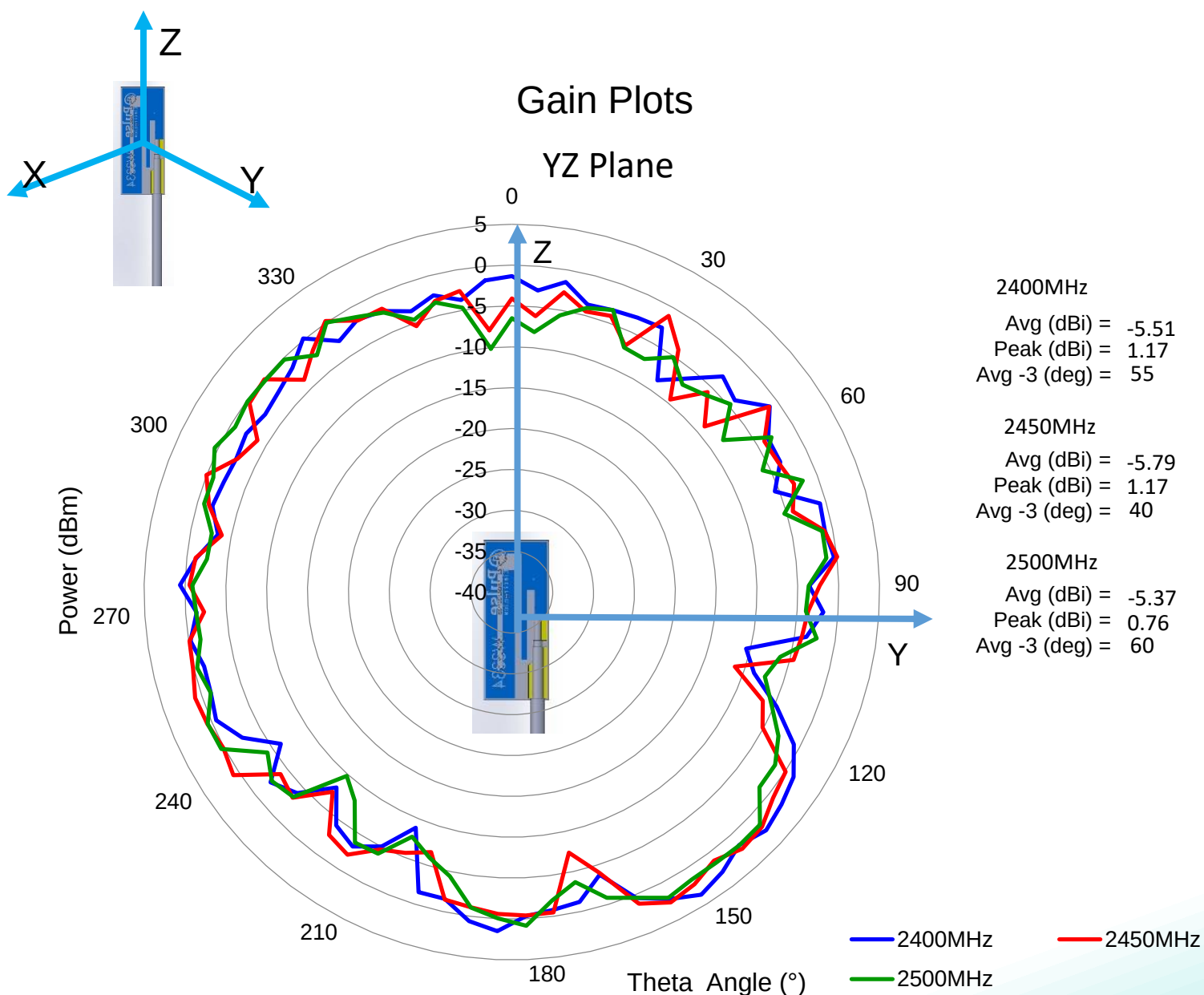
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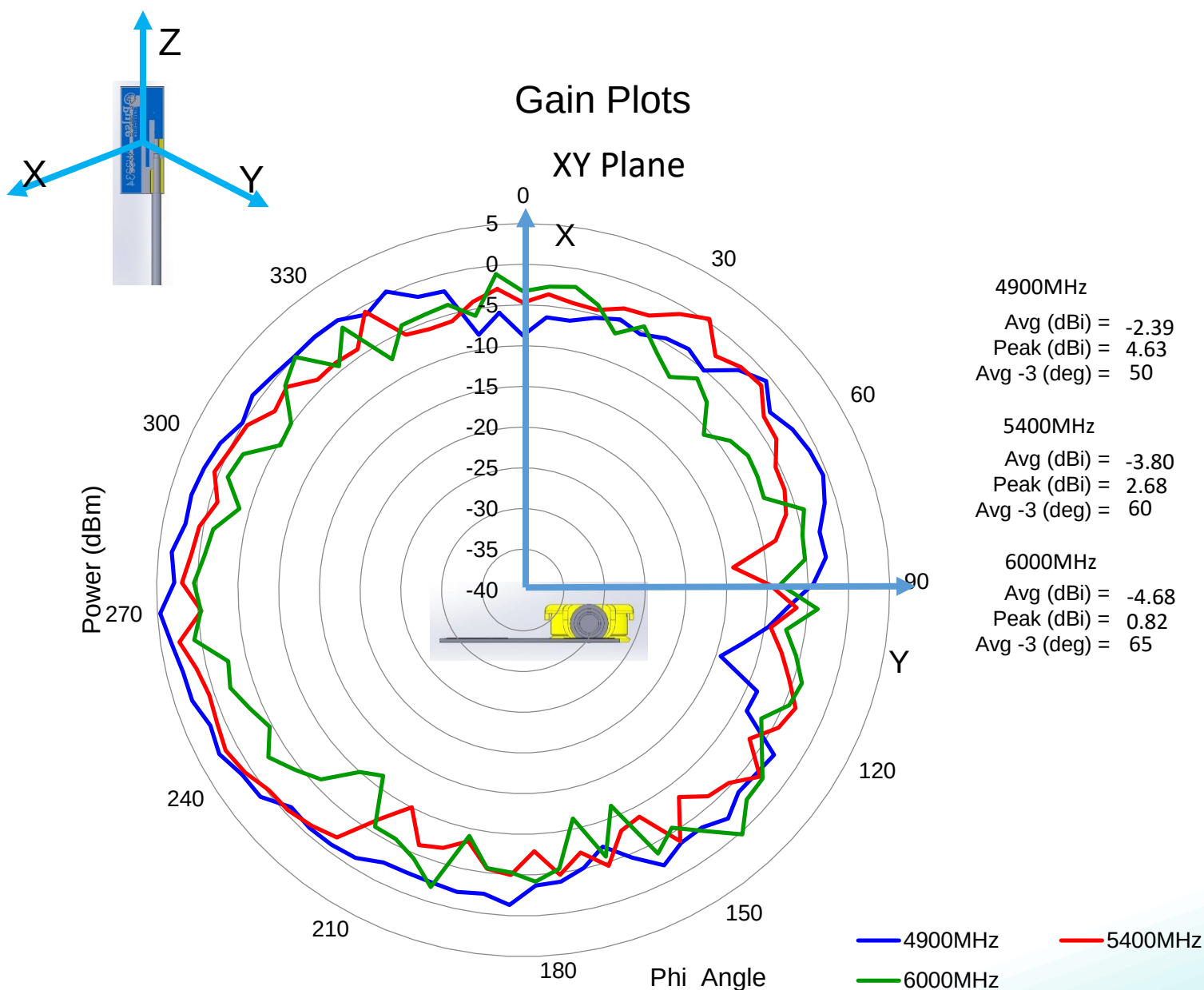
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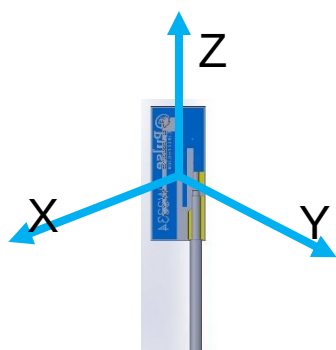
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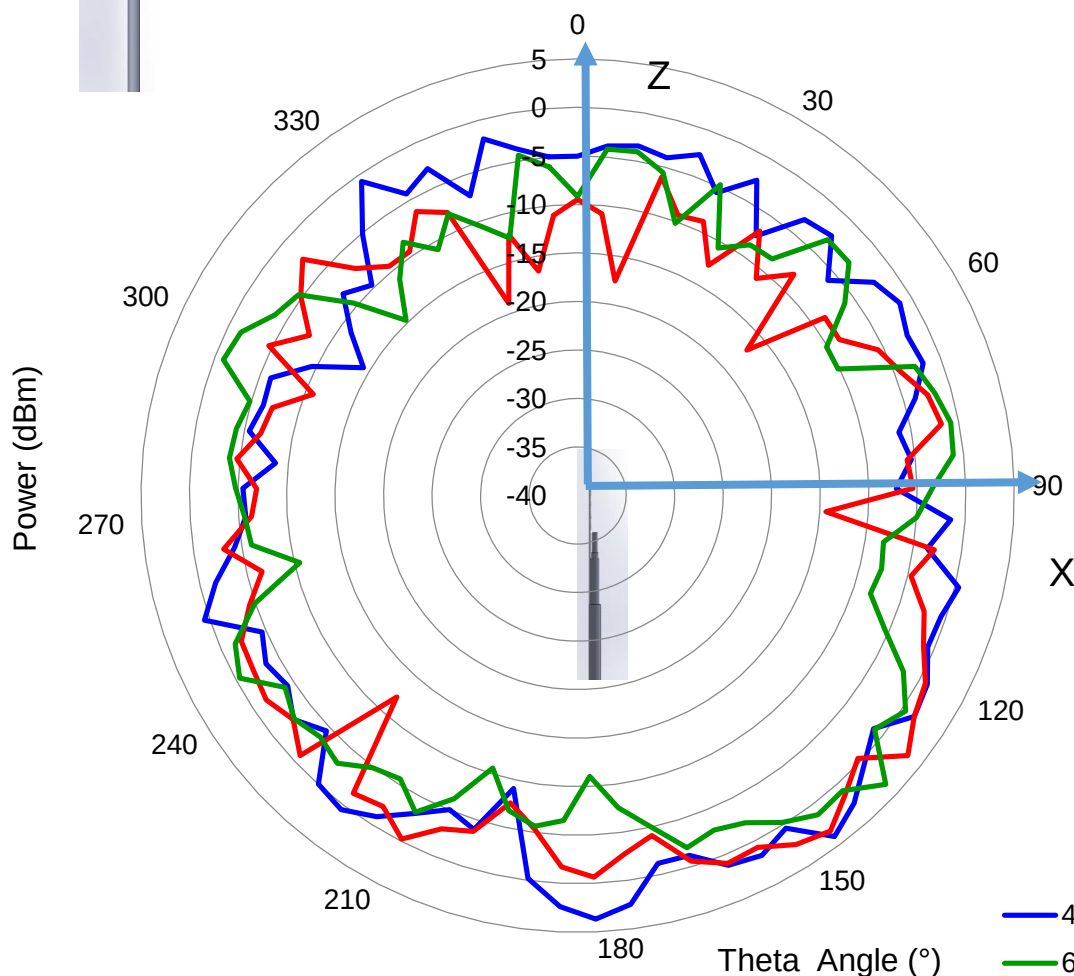
PART NUMBER: W3334XXXXXX

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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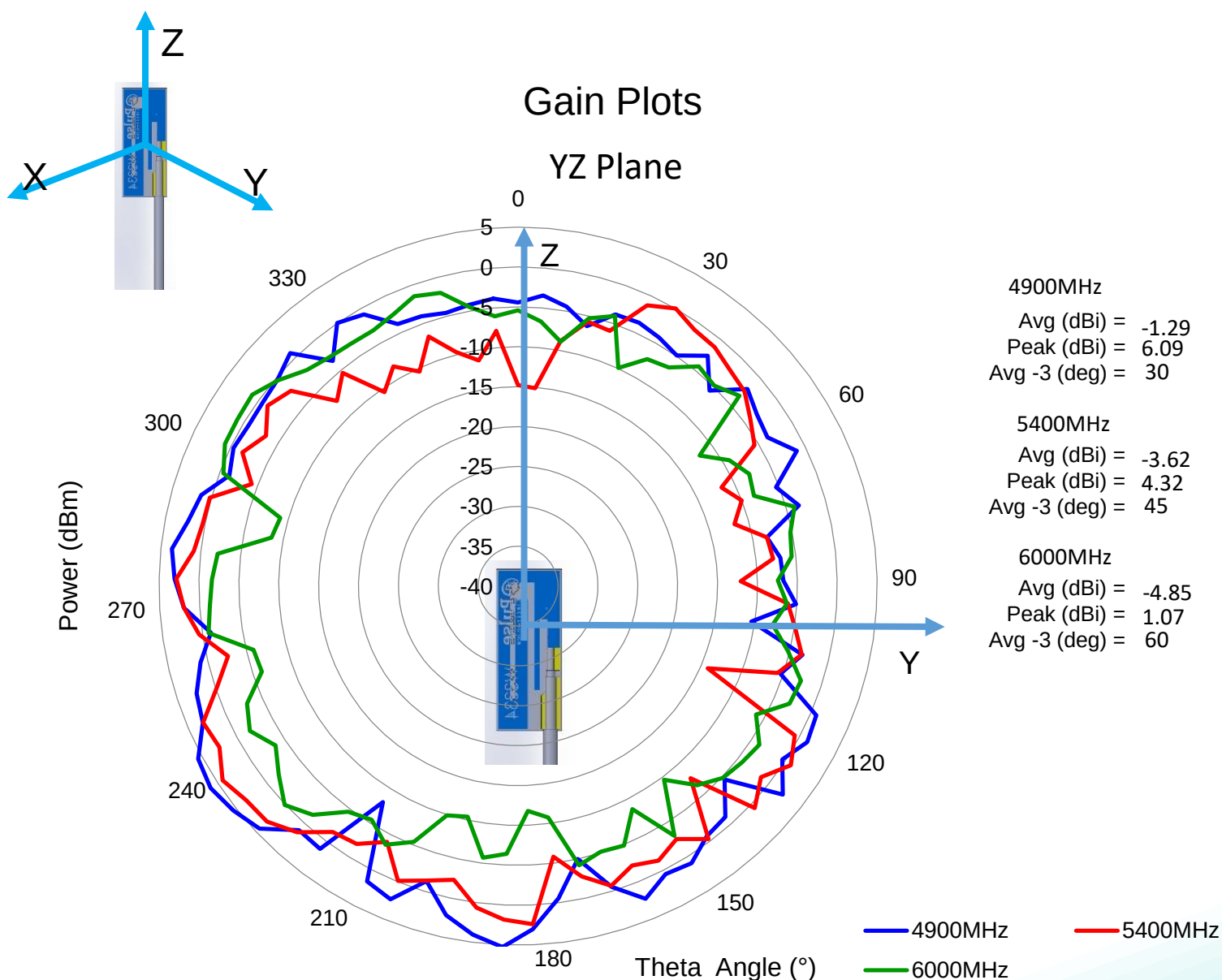
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PACKAGING

10PCS/PE bag

10 PE bag/foam bag

12 foam bag/ carton box

Total 1200PCS/Carton box



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