

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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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 34th 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, 4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



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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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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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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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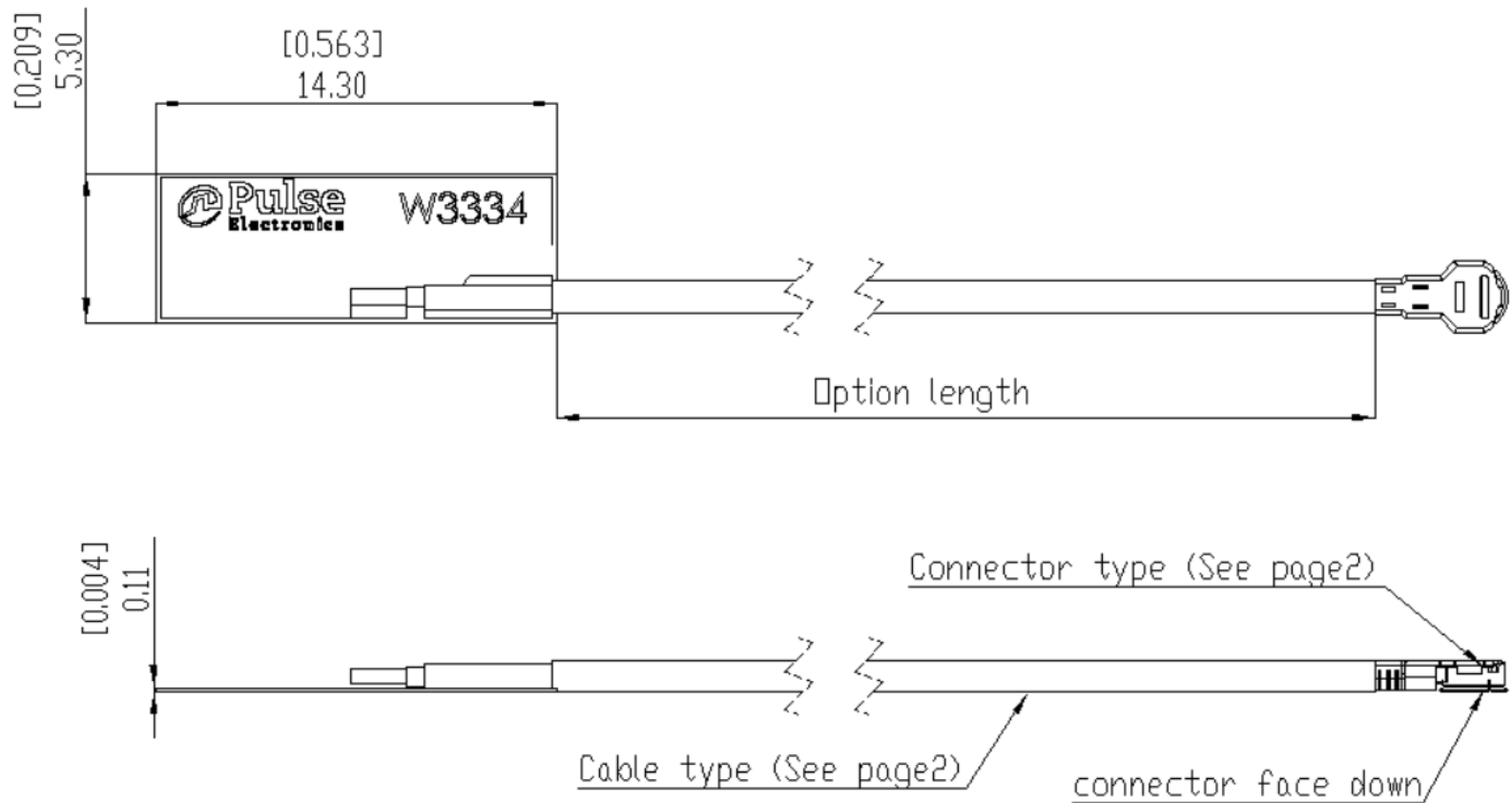
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MECHANICAL DRAWING



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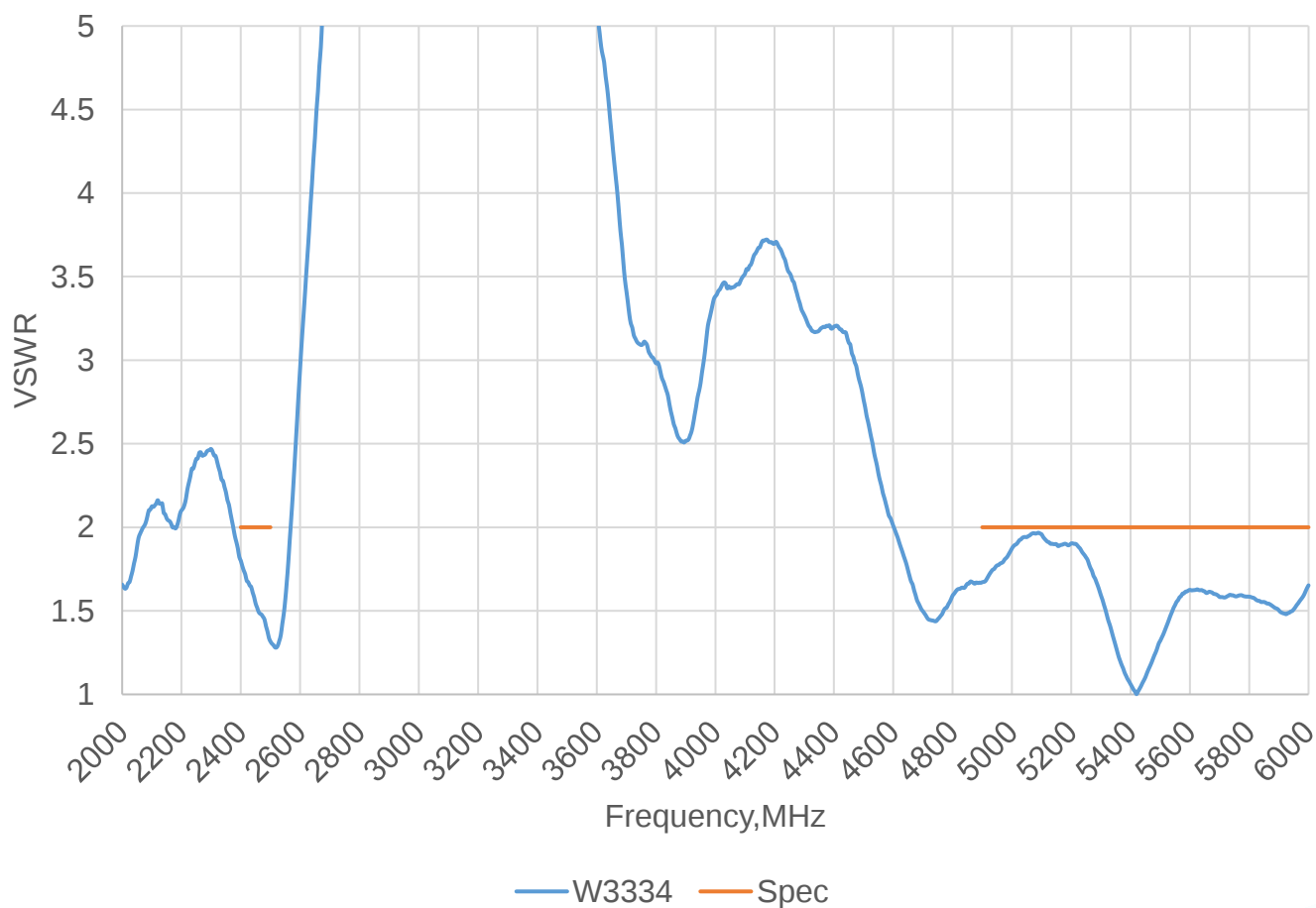
Series: Internal Antenna

PART NUMBER: W3334XXXXXX

CHARTS

VSWR

W3334 measured with polycarbonate plate



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

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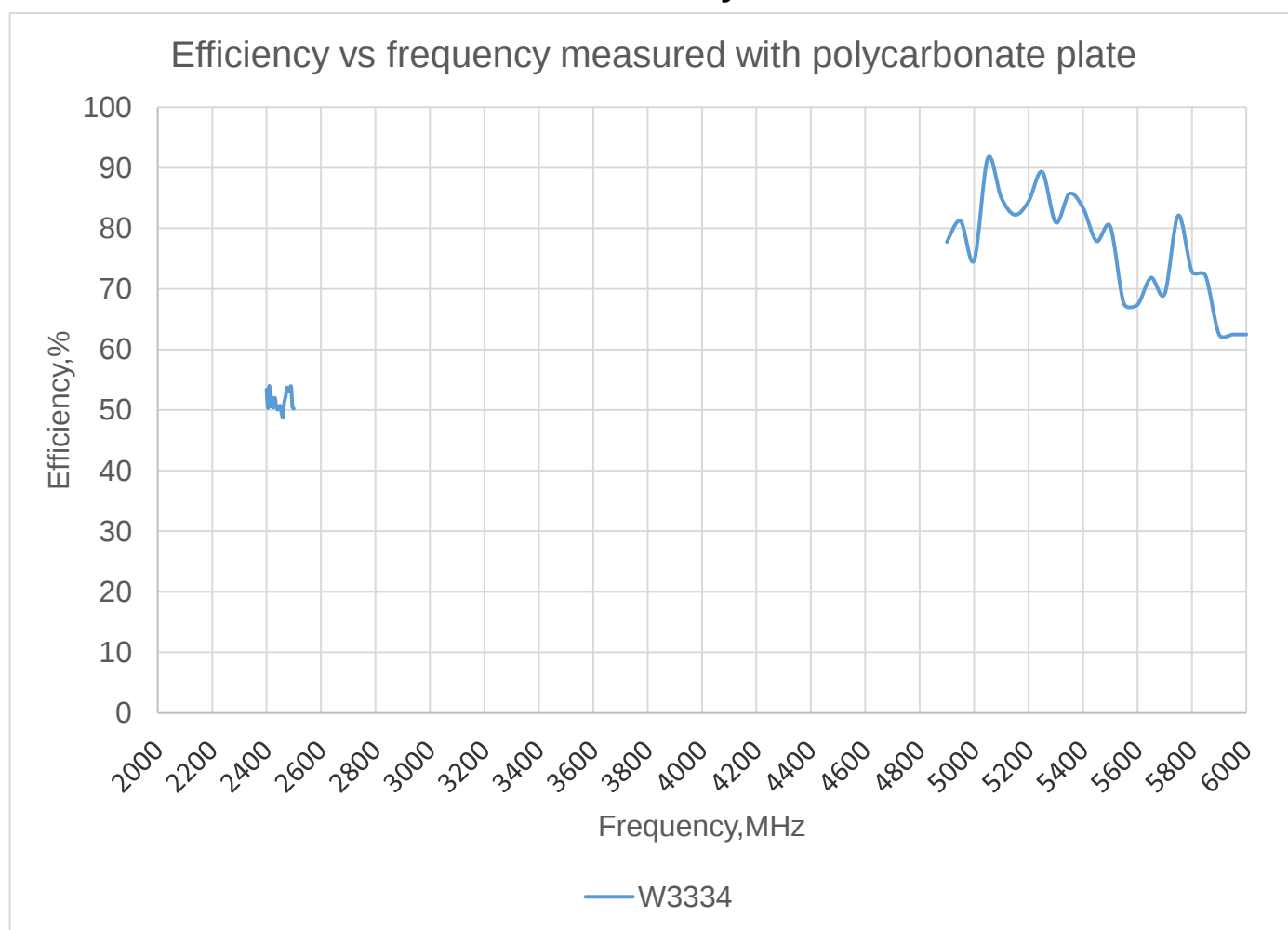
Description: FPC Antenna 2.4/5.xGHz/DSRC

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CHARTS

Efficiency



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

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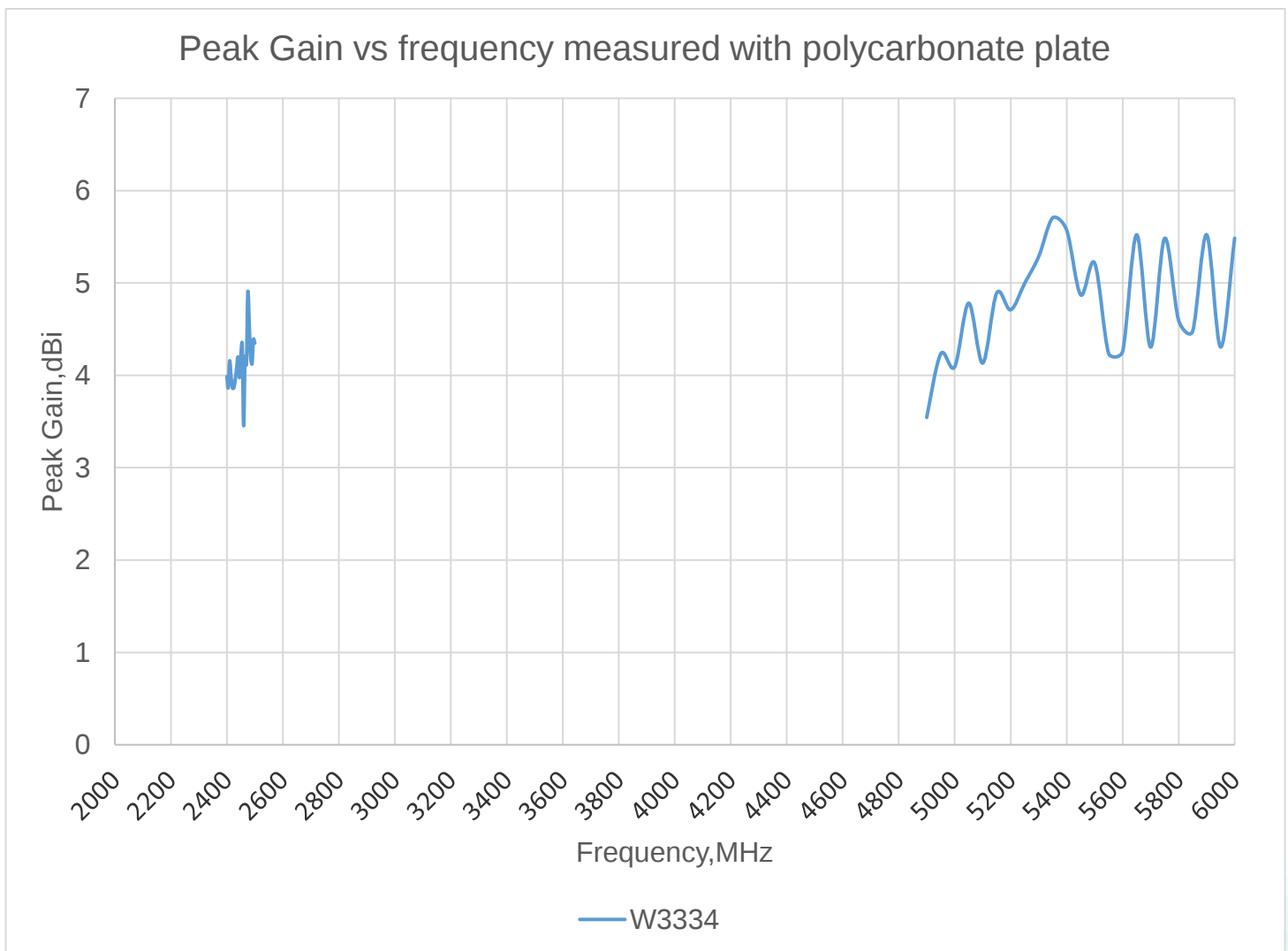
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CHARTS

Peak Gain



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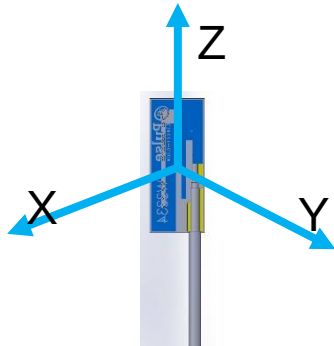
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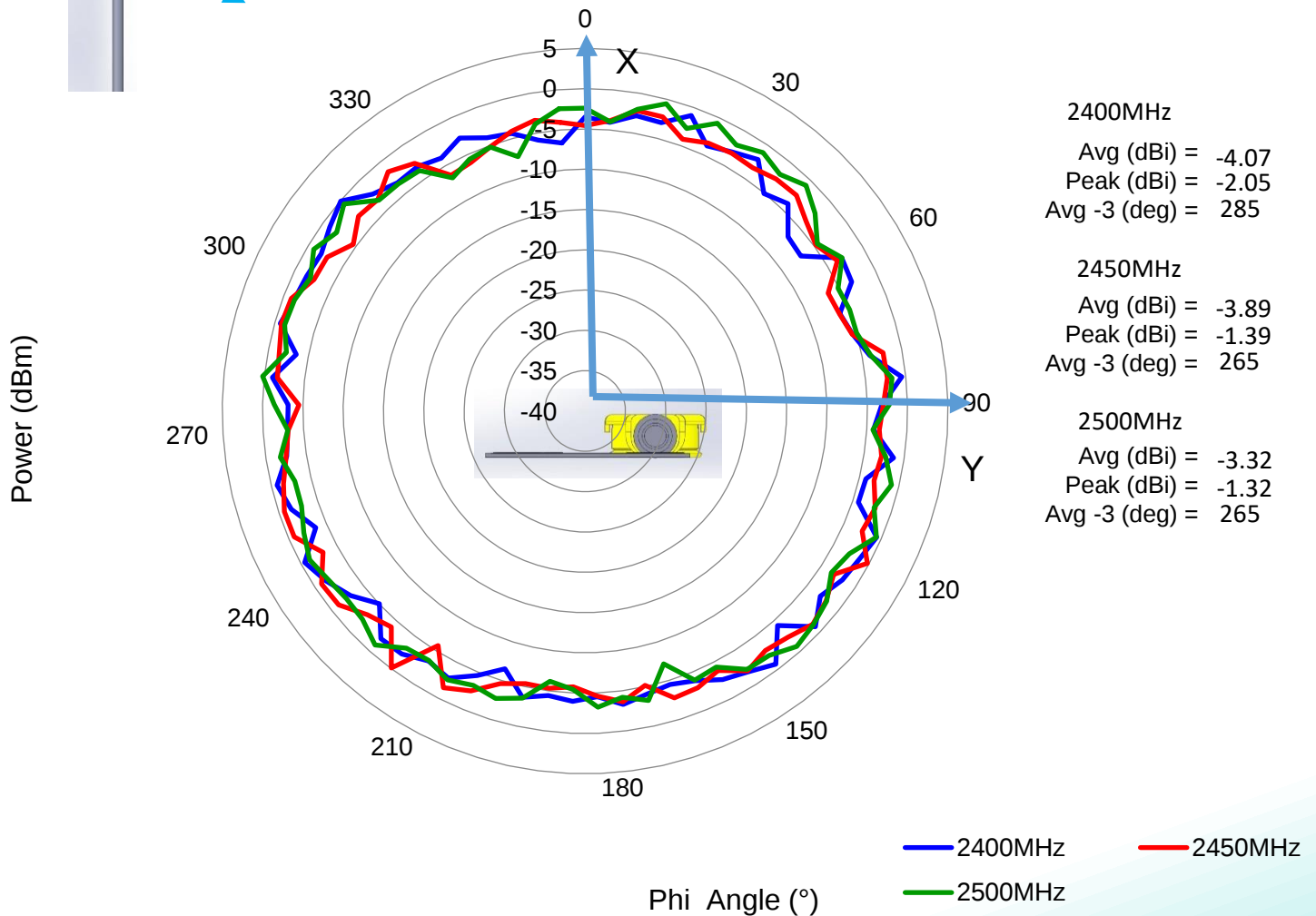
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CHARTS



Gain Plots

XY Plane



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

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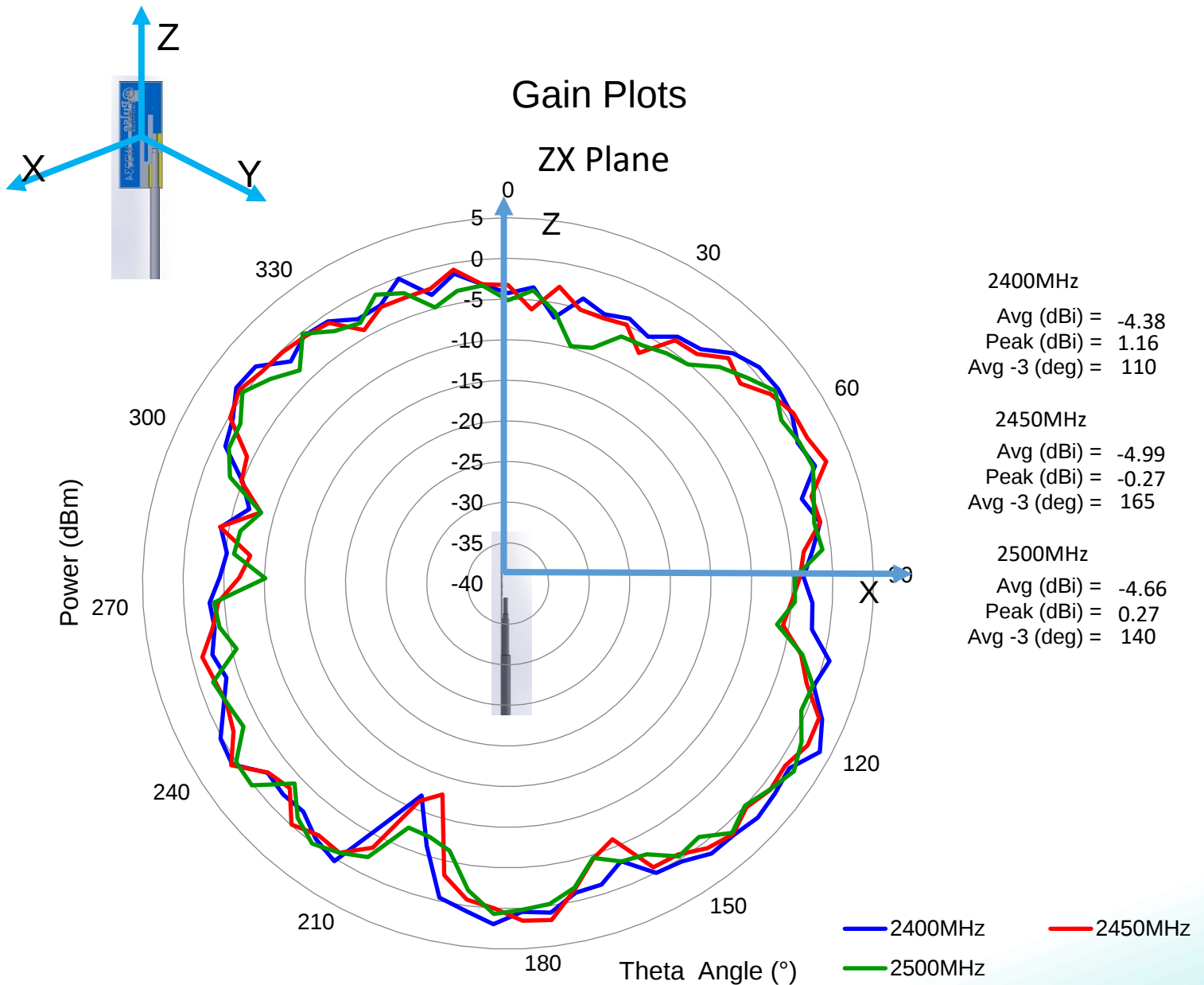
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CHARTS



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

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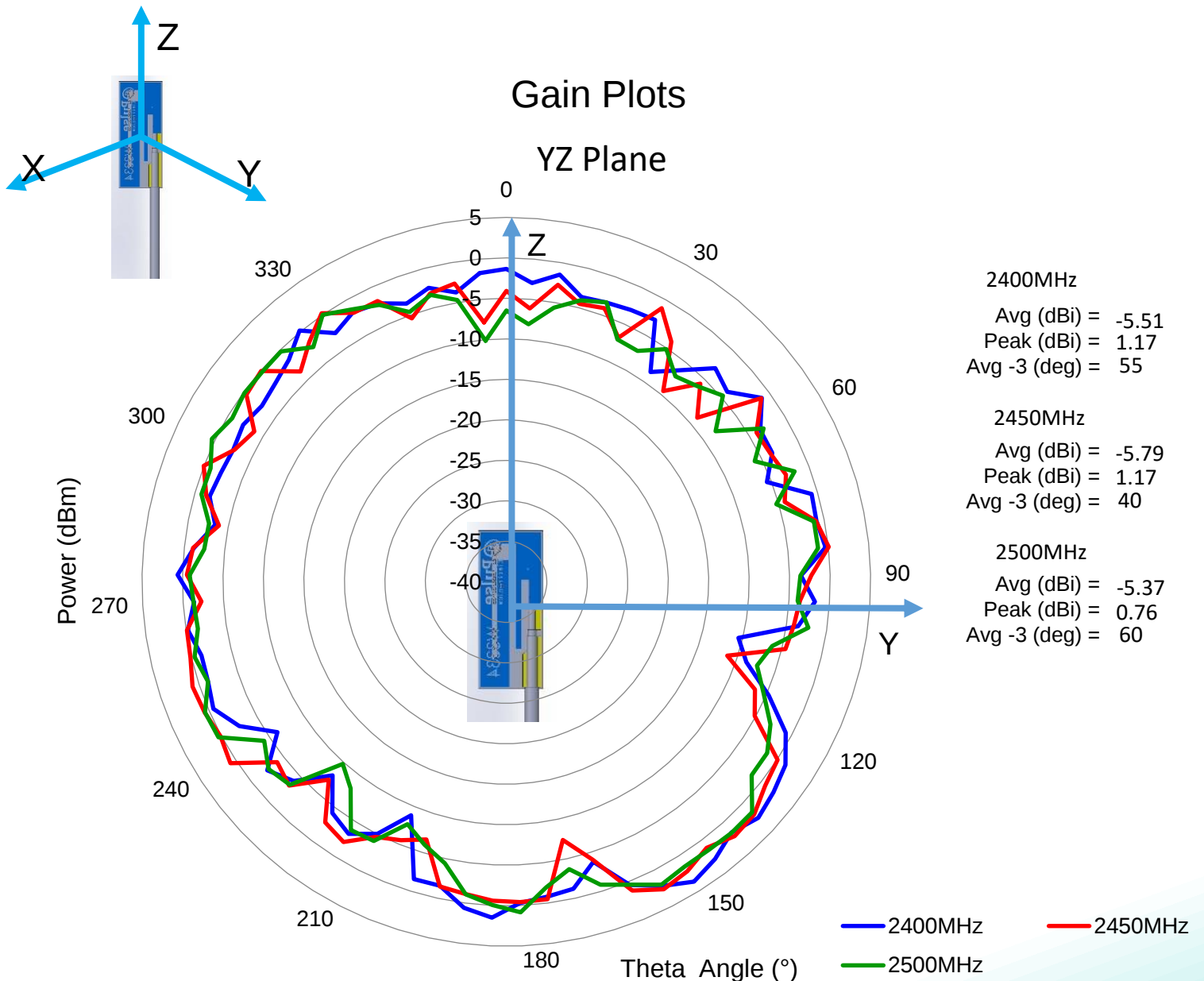
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CHARTS



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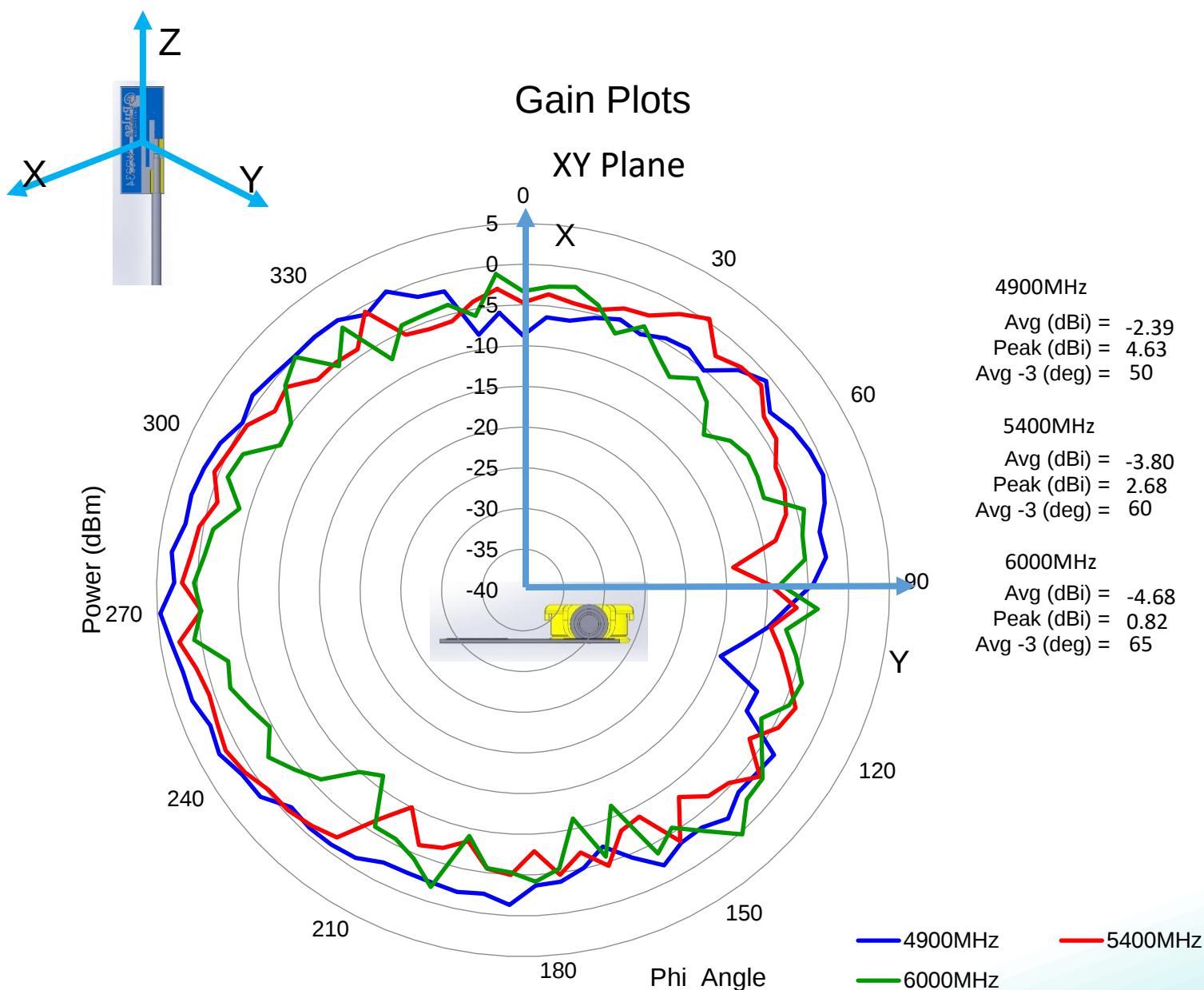
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CHARTS



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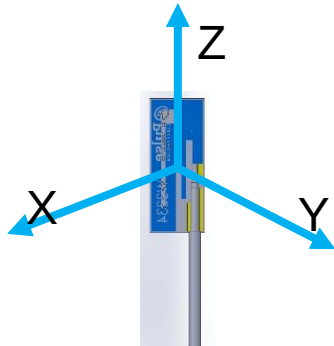
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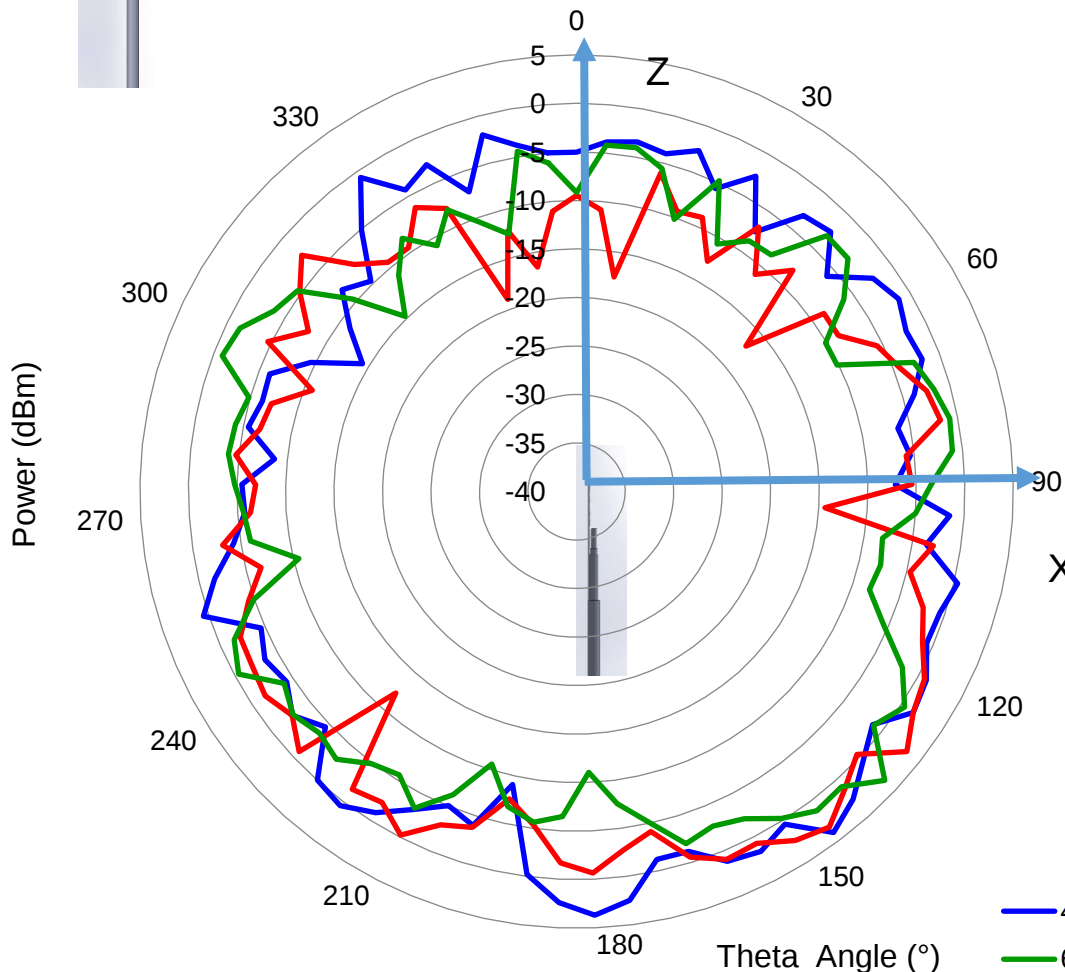
PART NUMBER: W3334XXXXXX

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

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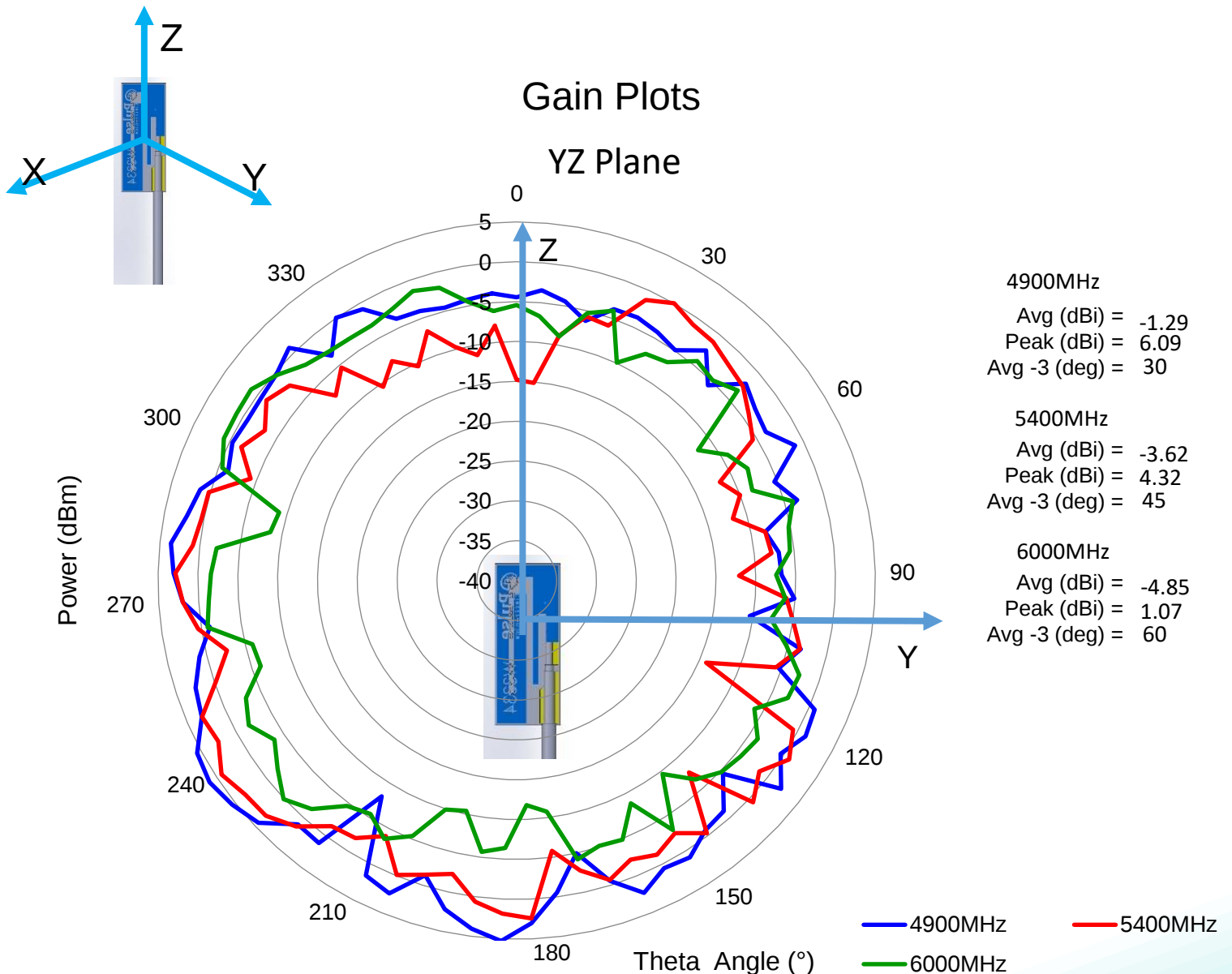
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CHARTS



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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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