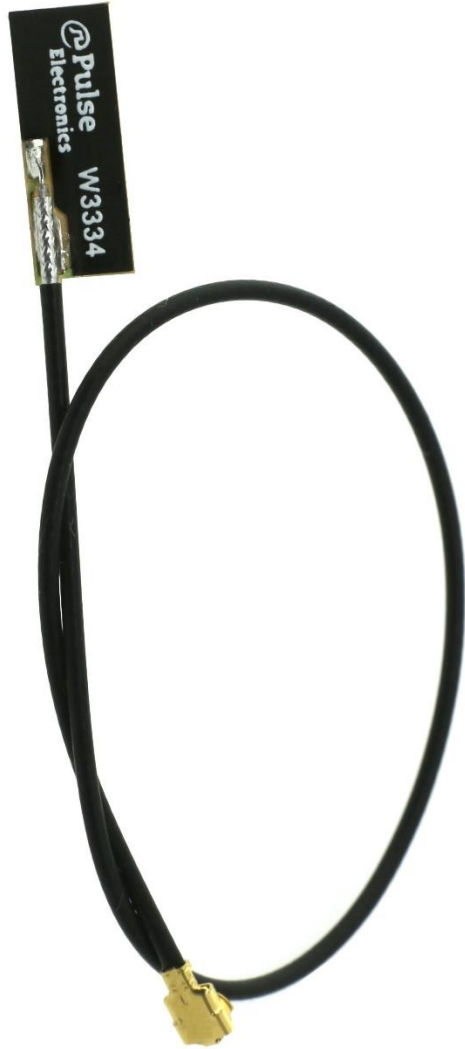


Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXX



Features:

- Peak gain 4/5.5dBi
- VSWR 2:1
- Mounting with adhesive tape
- Ultra small flexible radiator 4.3x15.3x0.1mm
- Coax feed cable with U.FL compatible connector

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: 1713P

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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

Preliminary



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

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Preliminary



Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXX

ELECTRICAL SPECIFICATIONS

Frequency	2400-2500/4900-6000	MHz
Nominal Impedance	50	Ω
VSWR	2.0:1	
Average efficiency(2400-2500MHz)	50	%
Average efficiency(4900-6000MHz)	70	%
Peak Gain (2400-2500MHz)	4	dBi +/- 1 dB
Peak Gain (4900-6000MHz)	5.5	dBi +/- 1 dB
Polarization:	Linear	
Power withstanding	3	W
Connector type	U.FL compatible	
Cable type	φ =1.13[0.04]	mm[inch]
Cable length	Optional	mm[inch]

Preliminary

(*) All RF parameters measured on 1mm thick PC plate

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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]
Adhesive		3M467

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C
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Preliminary

Issue: 1713P

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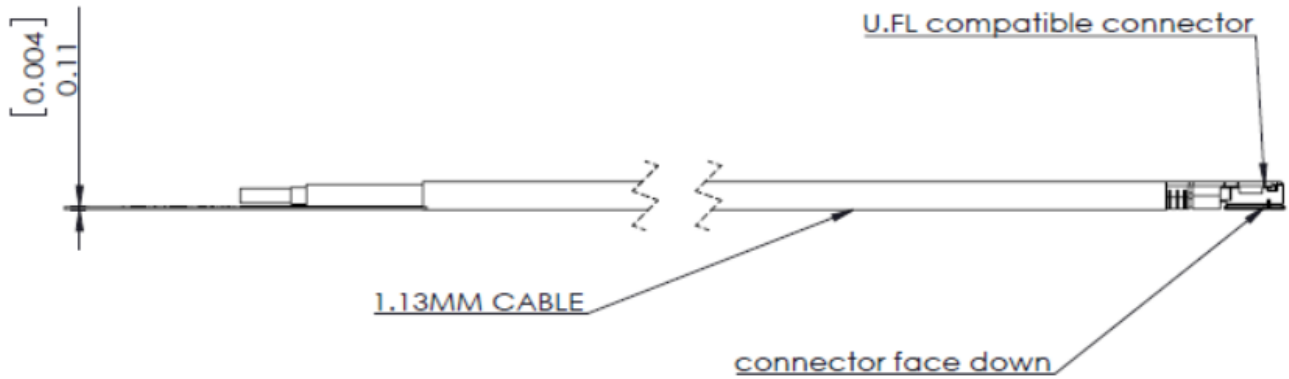
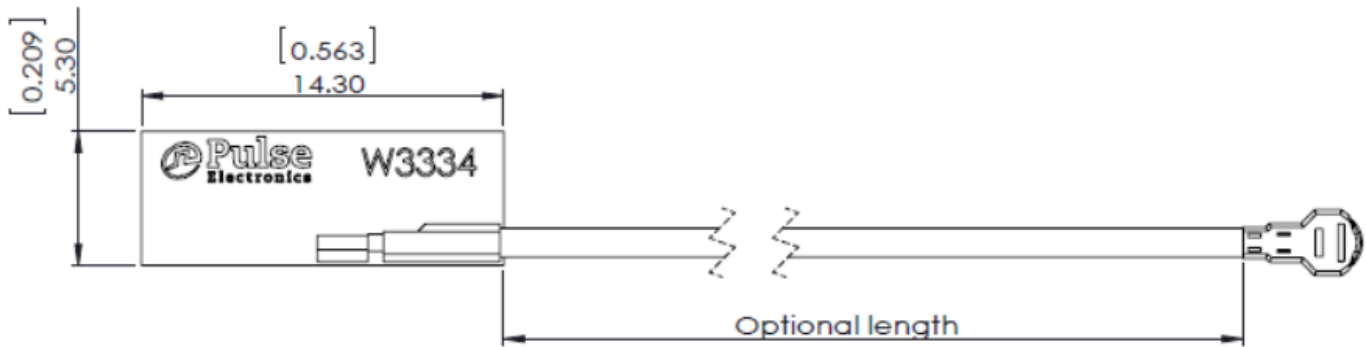
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Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXX

MECHANICAL DRAWING



Preliminary

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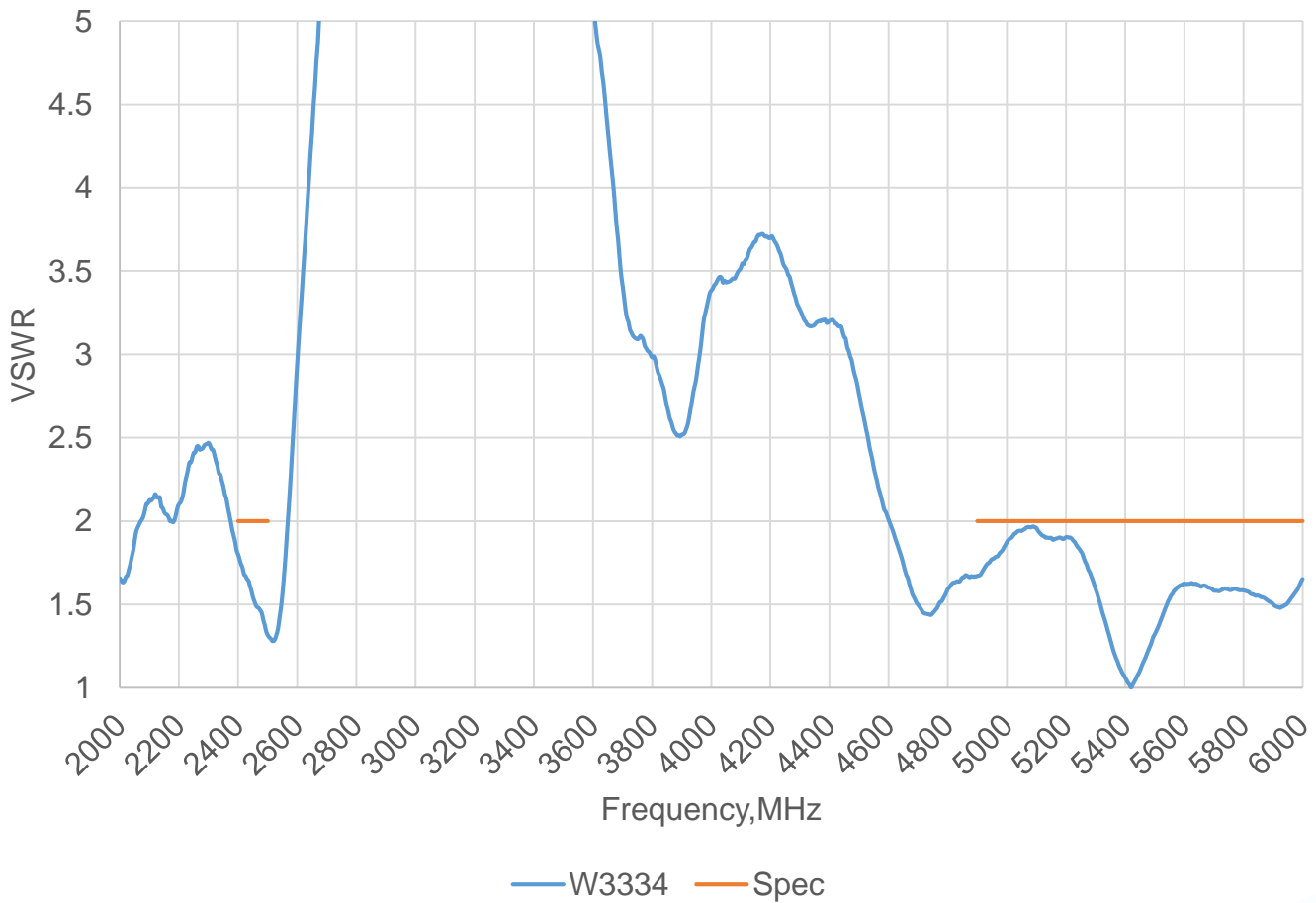
Series: Internal Antenna

PART NUMBER: W3334XXXXX

CHARTS

VSWR

W3334 measured with polycarbonate plate



Preliminary

Issue: 1713P

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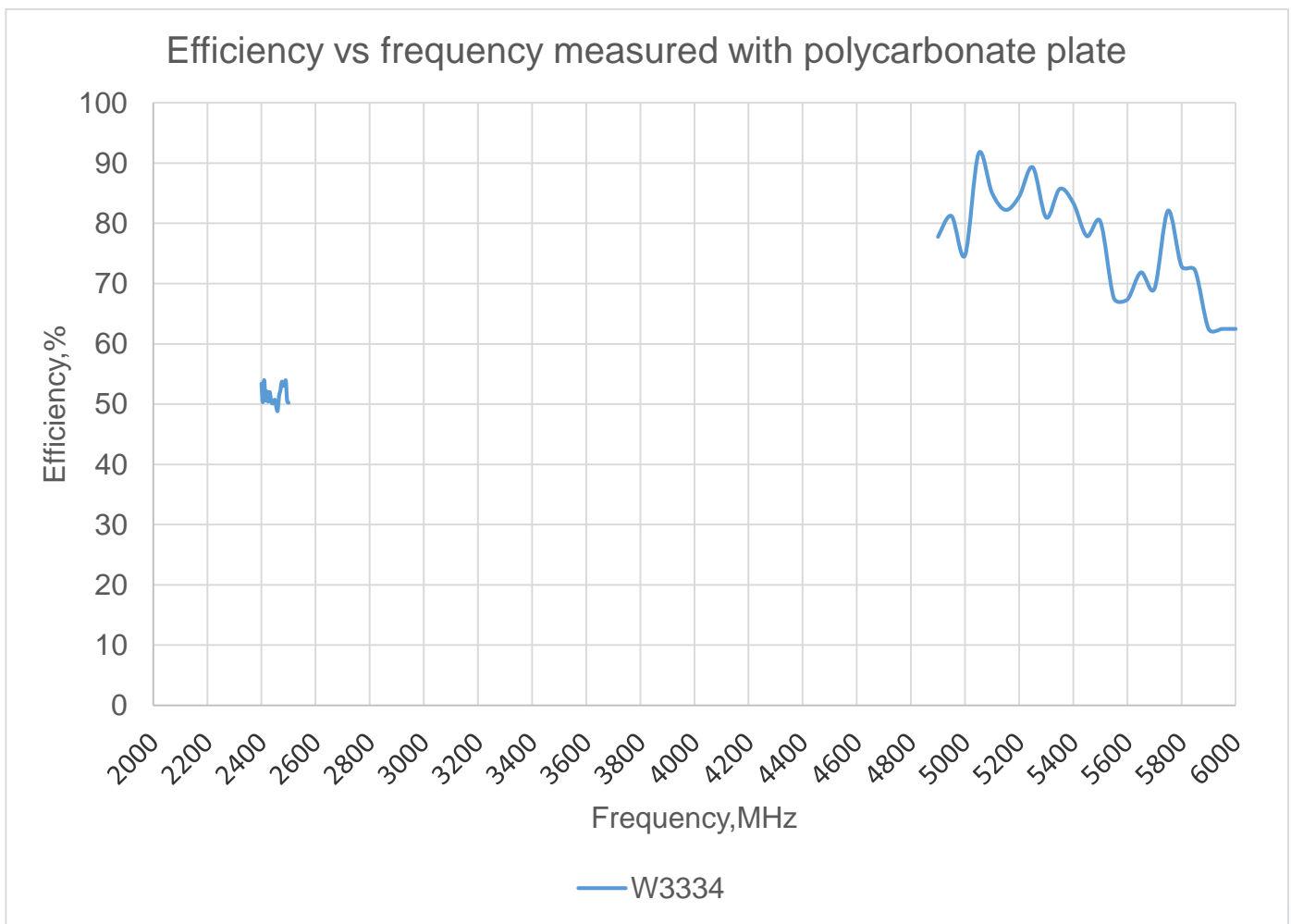
Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXX

CHARTS

Efficiency



Preliminary

Issue: 1713P

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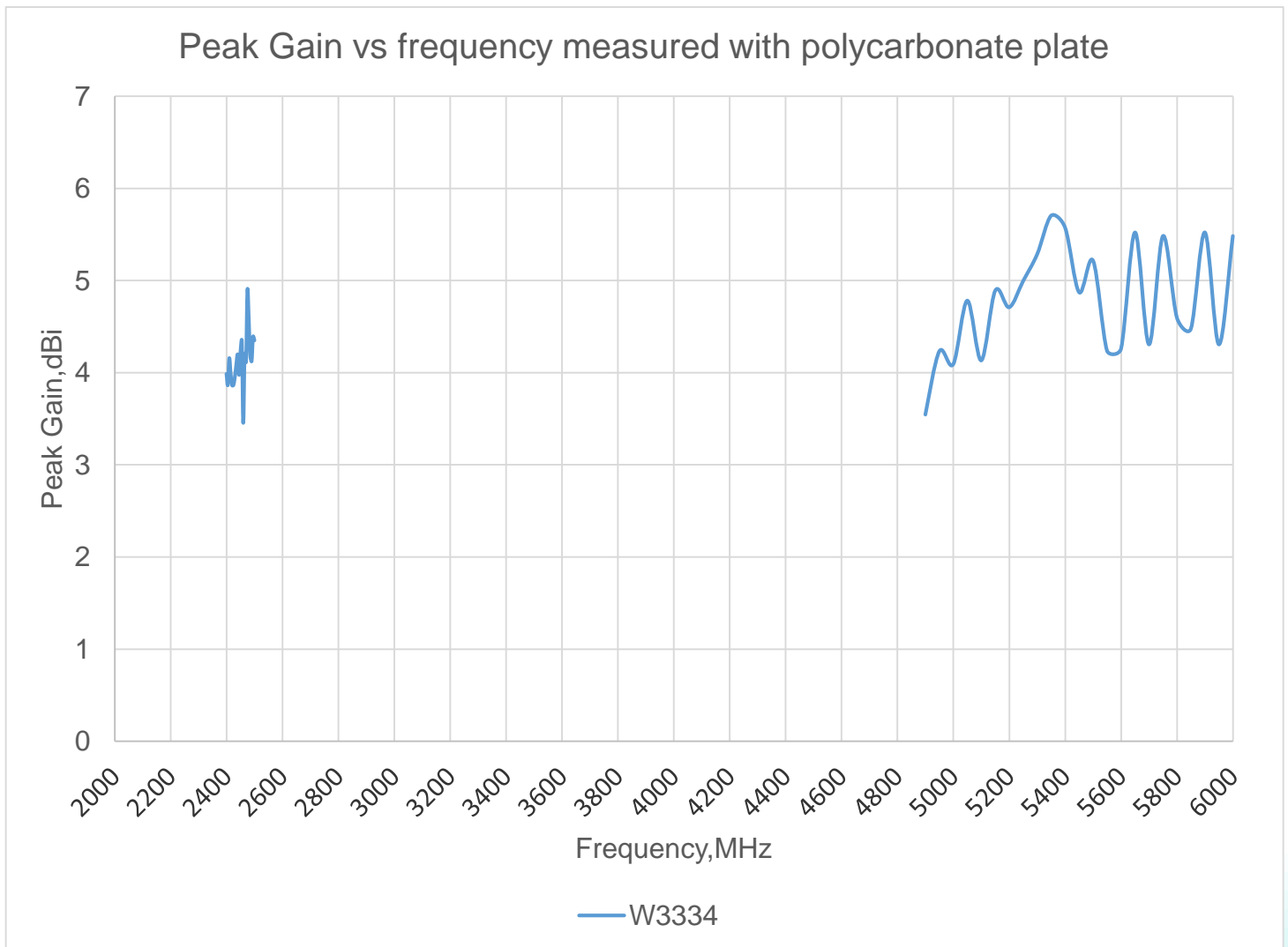
Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXX

CHARTS

Peak Gain



Issue: 1713P

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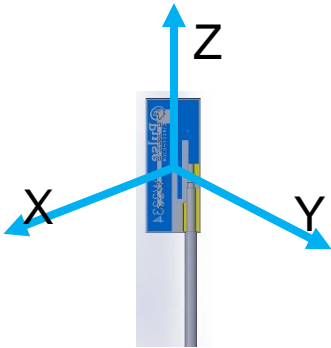
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Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

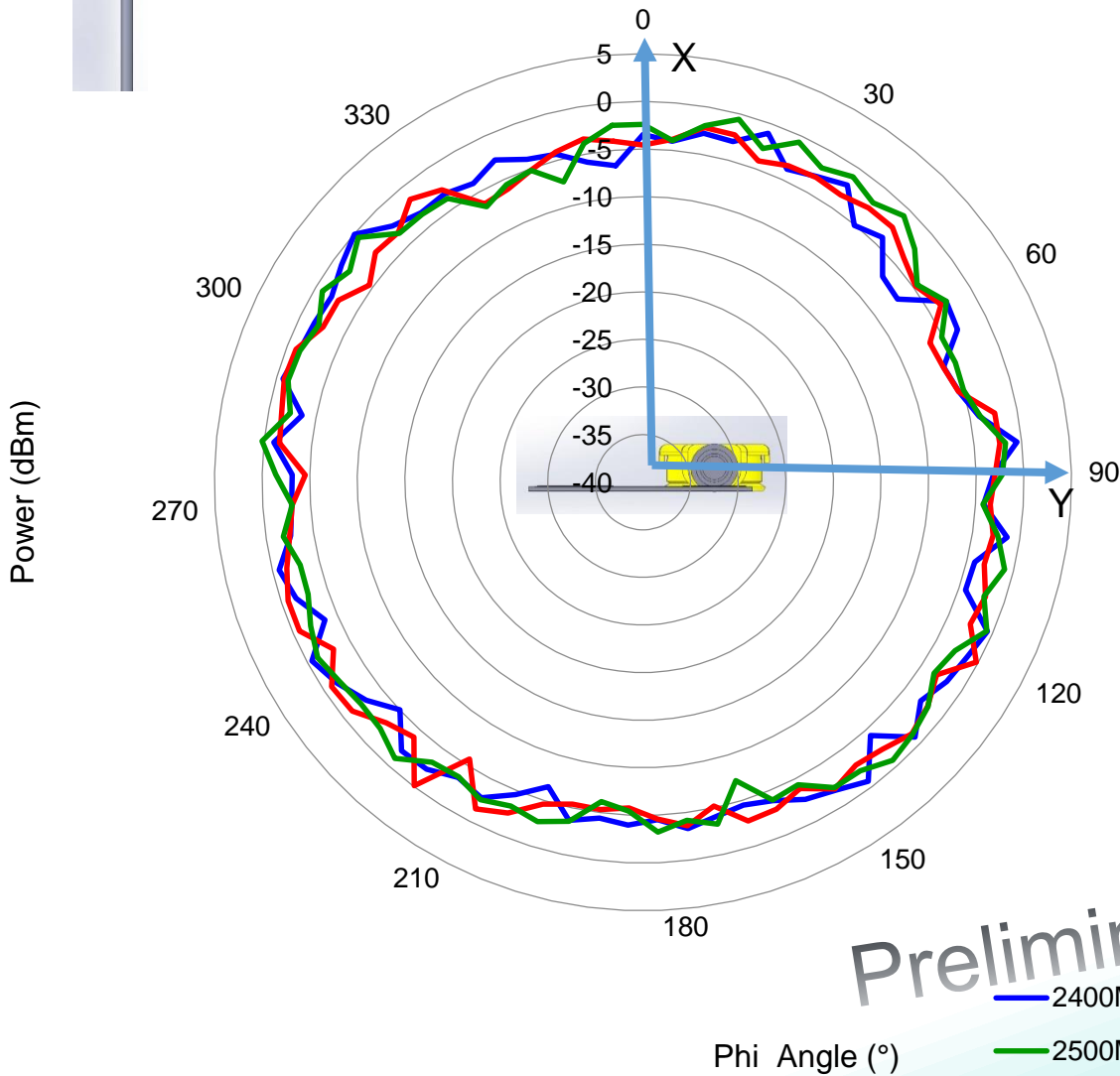
PART NUMBER: W3334XXXXX

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

Preliminary

— 2400MHz — 2450MHz — 2500MHz

Issue: 1713P

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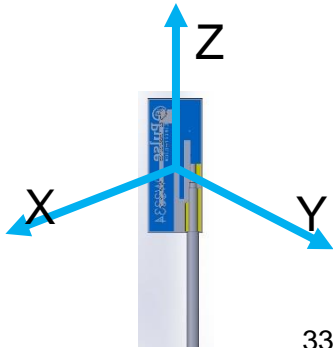


Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

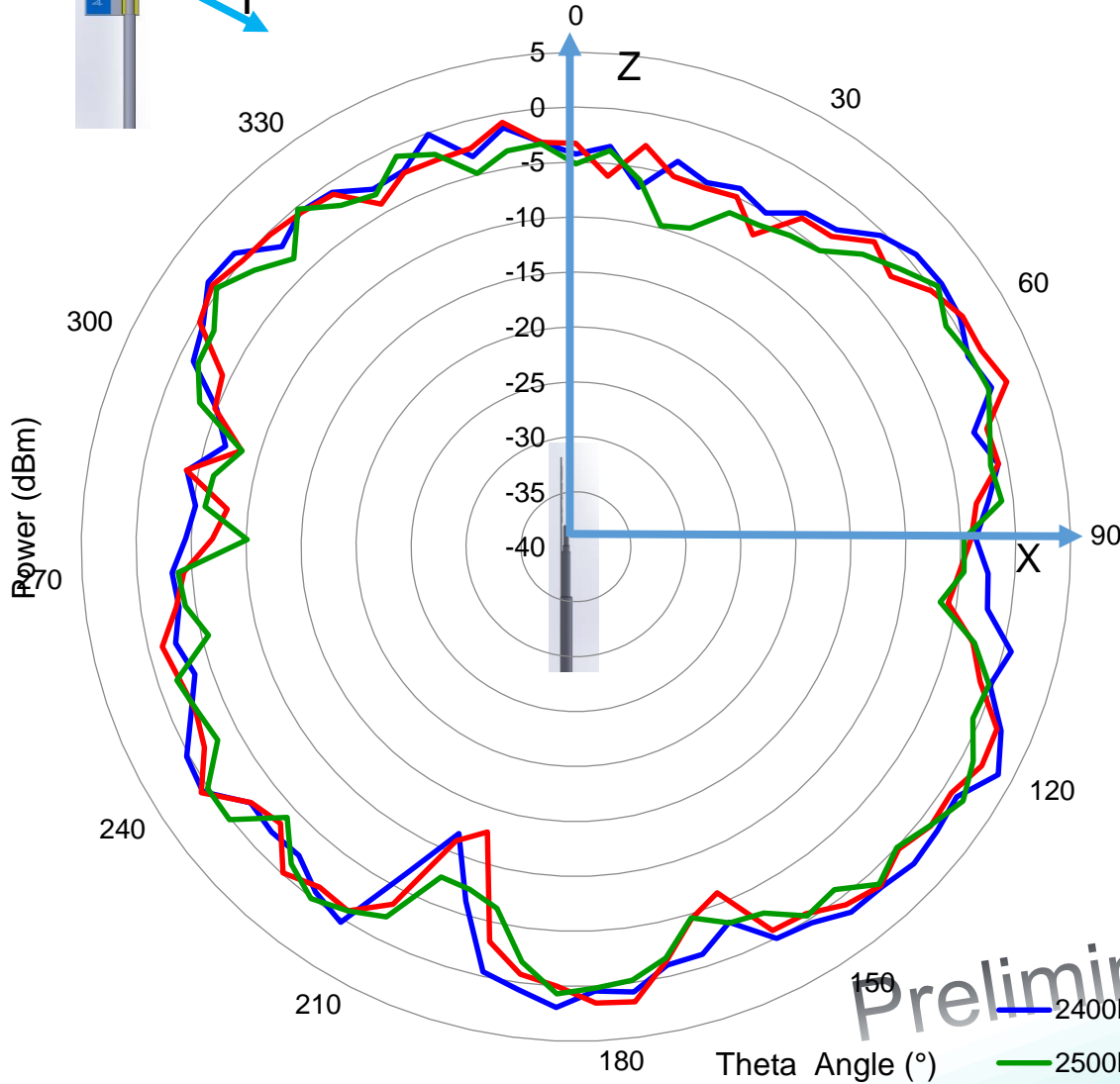
PART NUMBER: W3334XXXXX

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

Preliminary

— 2400MHz — 2450MHz — 2500MHz

Issue: 1713P

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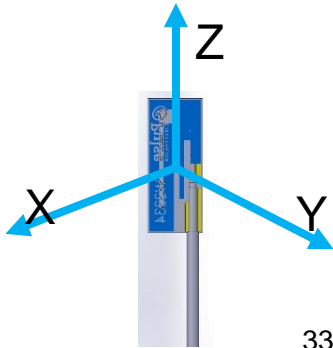


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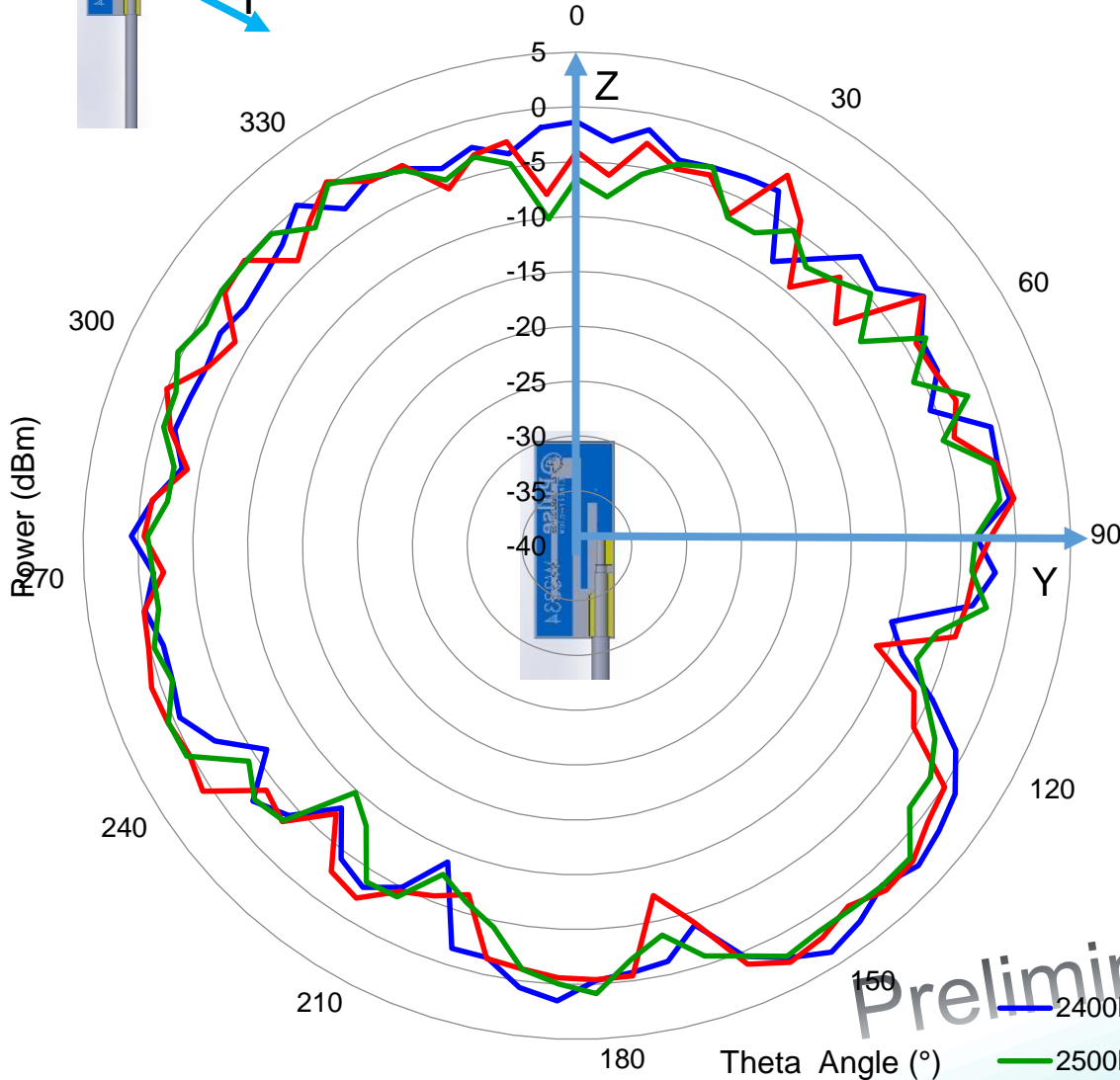
PART NUMBER: W3334XXXXX

CHARTS



Gain Plots

YZ Plane



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

Preliminary
 — 2400MHz — 2450MHz
 — 2500MHz

Issue: 1713P

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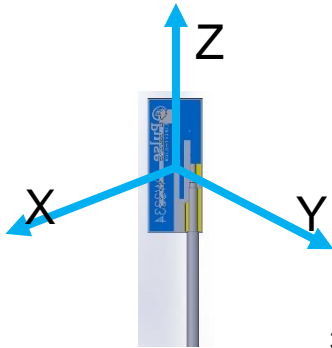
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Series: Internal Antenna

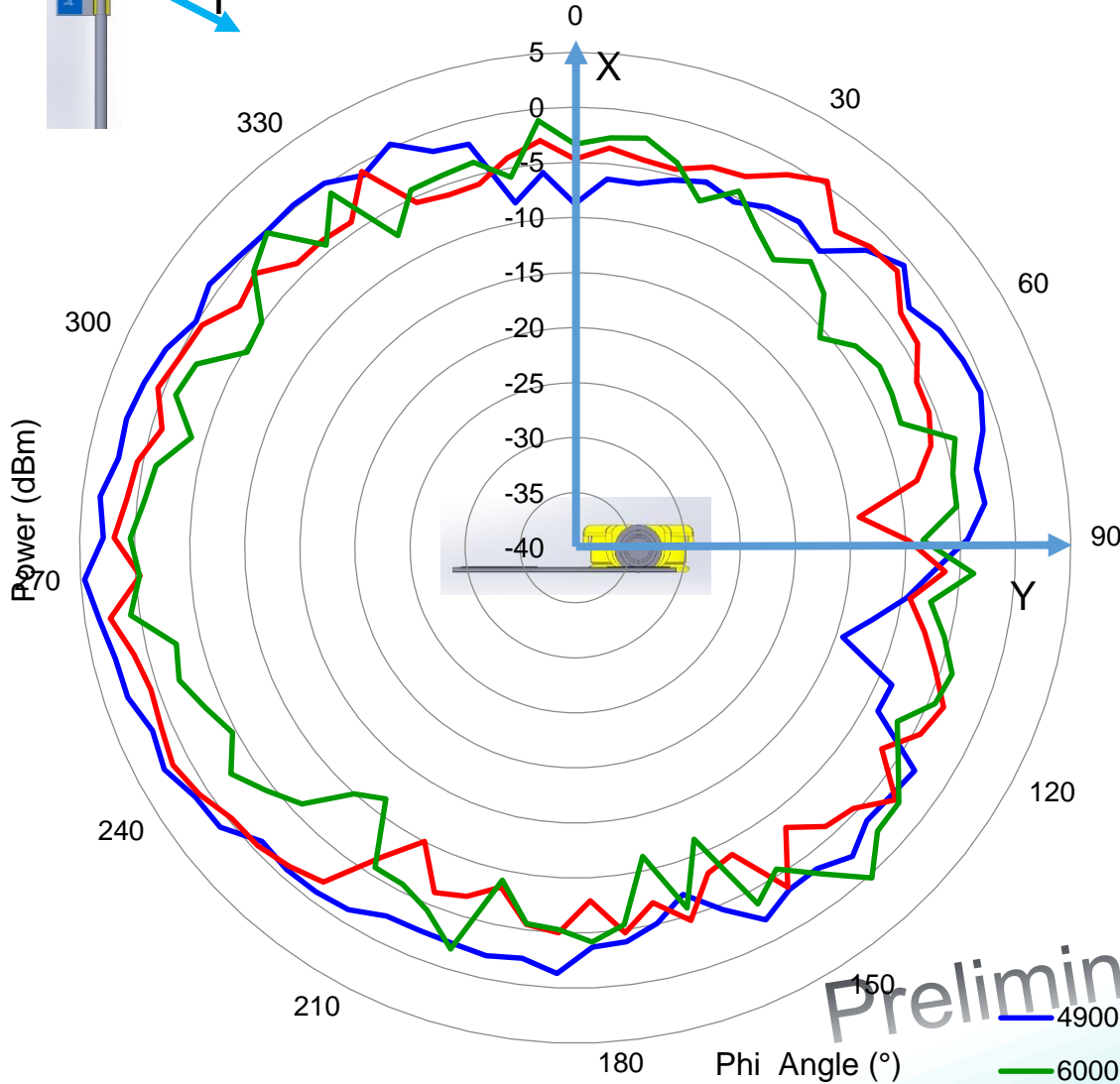
PART NUMBER: W3334XXXXX

CHARTS



Gain Plots

XY Plane



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

Preliminary

— 4900MHz — 5400MHz — 6000MHz

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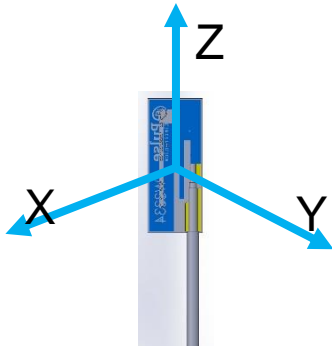


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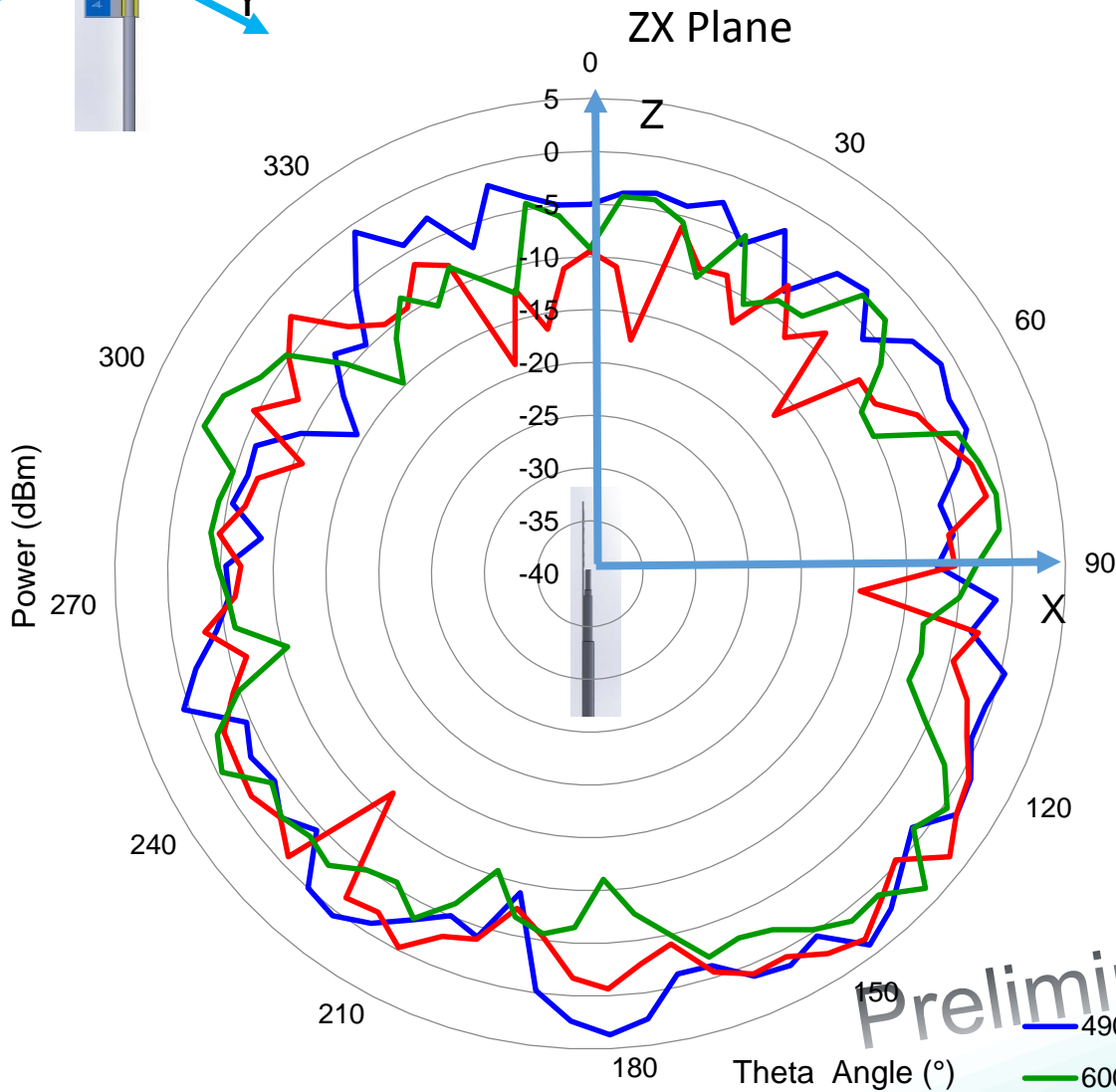
Series: Internal Antenna

PART NUMBER: W3334XXXXX

CHARTS



Gain Plots



Preliminary

— 4900MHz — 5400MHz — 6000MHz

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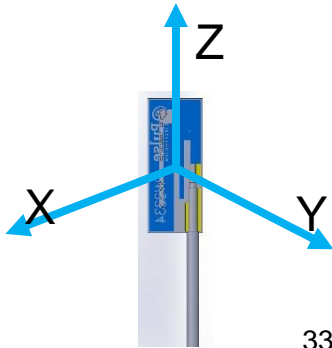


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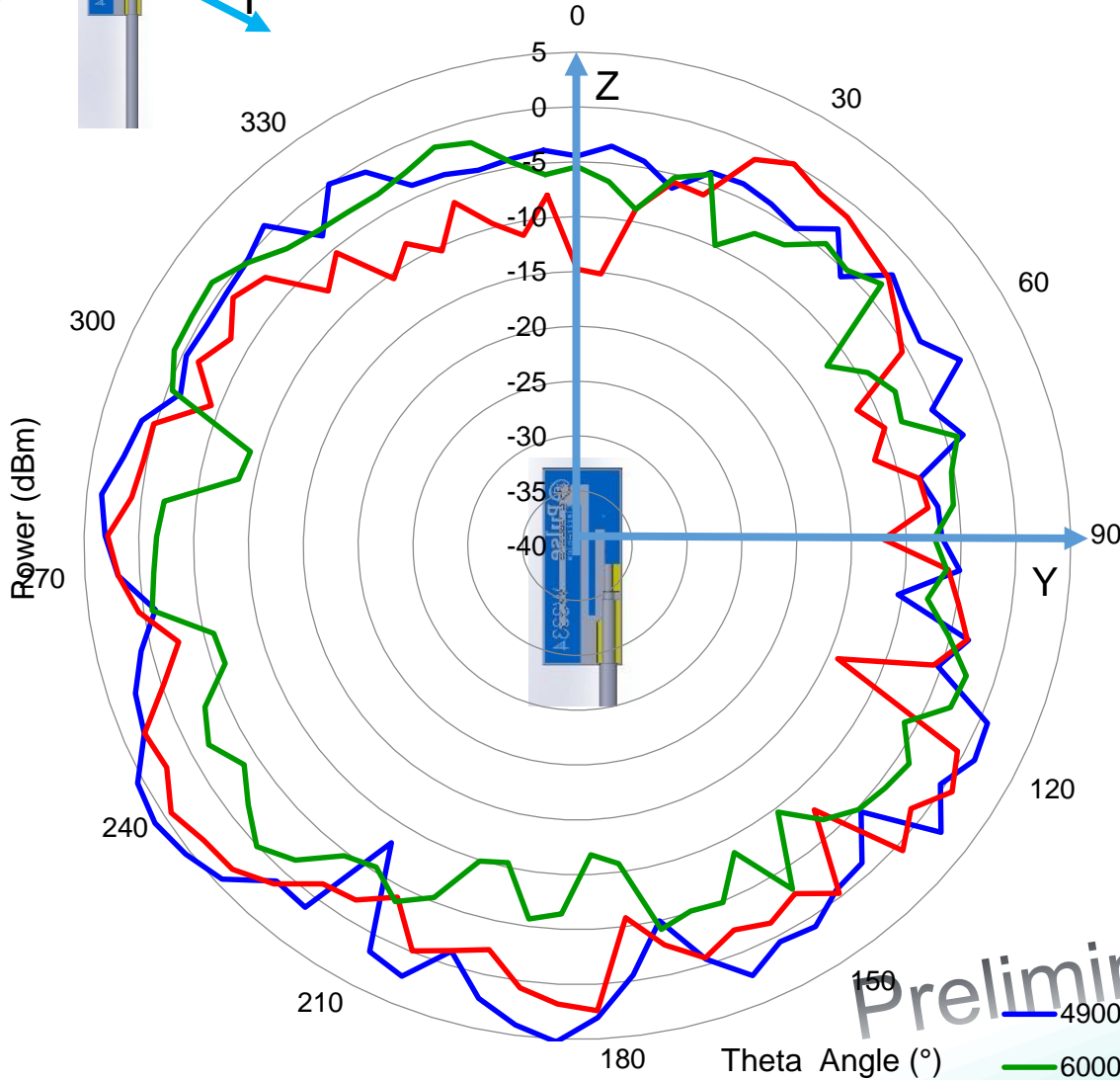
PART NUMBER: W3334XXXXX

CHARTS



Gain Plots

YZ Plane



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

Preliminary

— 4900MHz — 5400MHz
— 6000MHz

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Description: FPC Antenna 2.4/5.xGHz/DSRC

Series: Internal Antenna

PART NUMBER: W3334XXXXX

PACKAGING

5PCS/PE bag
20 PE bag/foam bag
12 foam bag/ carton box

Total 1200PCS/Carton box



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