



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Description: ISM868/915MHz, 2.4GHz Antenna

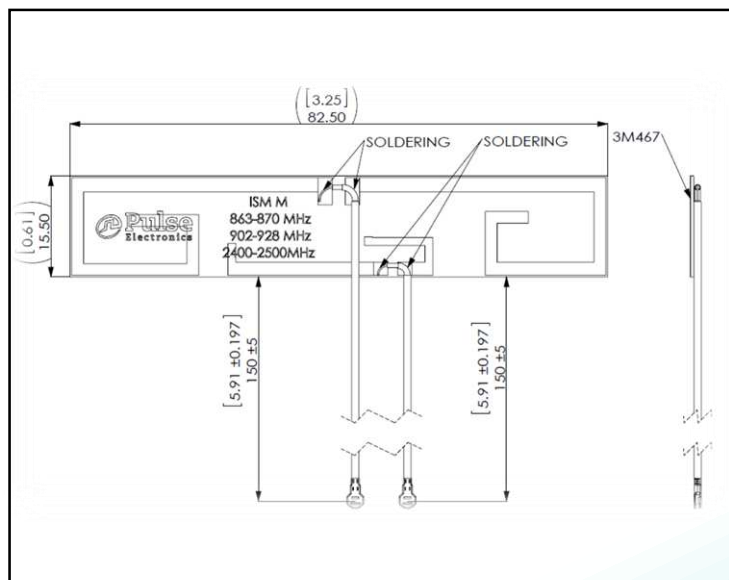
Series: Internal

PART NUMBER: W3332B0150



Features:

- Tri-band dual feed ISM antenna
- PCB radiator with two pigtail coax feeds (815/915MHz and 2.4GHz)
- Size 15.5x82.5x0.5mm
- U.FL compatible connectors



Applications:

- Devices using ISM band radios 868MHz, 915MHz, 2.4GHz
- Machine to Machine, IoT
- Data terminals and routers using ISM bands
- 2.4-2.5GHz band also applicable for Bluetooth, BLE Zigbee. WiFi

All dimensions are in mm / inches

Issue: 1649

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Tel: 86 512 6807 9998



Description: ISM868/915MHz, 2.4GHz Antenna

Series: Internal

PART NUMBER: W3332B0150

ELECTRICAL SPECIFICATIONS

Cable 1

Frequency	863-928	MHz
Nominal Impedance	50	Ω
Return loss(max)	-5	dB
Peak Gain	0.2	dBi
Average Efficiency	55	%

Cable 2

Frequency	2400-2500	MHz
Nominal Impedance	50	Ω
Return loss(max)	-10	dB
Peak Gain	4.1	dBi
Average Efficiency	64	%

Isolation between cable 1 and cable 2

@863-928MHz	-16	dB
@2400-2500MHz	-11	dB

Description: ISM868/915MHz, 2.4GHz Antenna**Series:** Internal**PART NUMBER:** W3332B0150

MECHANICAL SPECIFICATIONS

PCB material	FR4
PCB thickness	0.5 mm
Adhesive	3M467
Cable type	OD 1.13mm coax
Cable length	150 mm
Connector	U.FL compatible

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C
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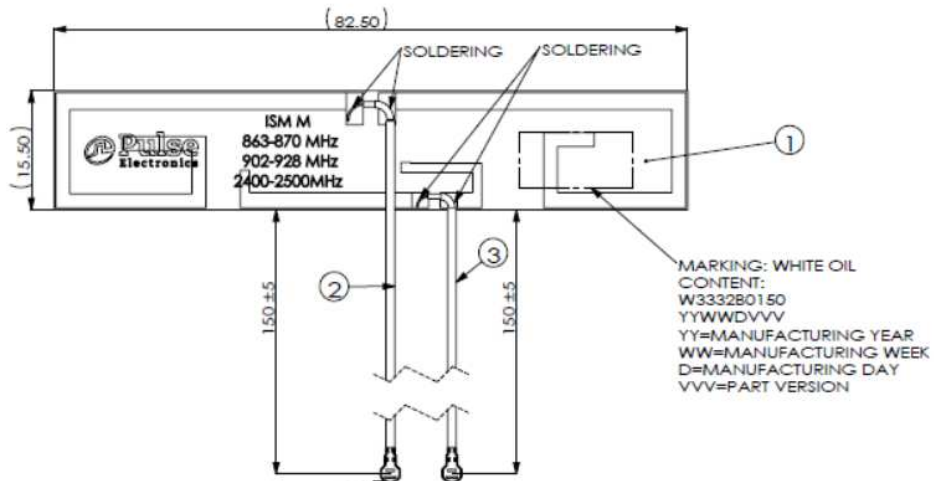
Series: Internal

PART NUMBER: W3332B0150

MECHANICAL DRAWING

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ITEM	P/N	DESCRIPTION	QUANTITY	NOTE
1	025-6139.001	PCB WITH 3M467 ADHESIVE	1	
2	055-2240.001	CABLE 1	1	
3	055-2241.001	CABLE 2	1	



NOTES:

1. RoHS COMPLIANT.
2. NORMAL IMPEDANCE 50Ω.
3. CABLE1: 863-928 MHz, RETURN LOSS (MAX.)-5dB, PEAK GAIN:0.2dBi,AVERAGE EFFICIENCY:55%
CABLE2:2400-2500MHz,ETURN LOSS (MAX.)-10dB, PEAK GAIN:4.1dBi,AVERAGE EFFICIENCY:64%
4. ISOLATION BETWEEN CABLE 1 AND CABLE 2:
@863-928MHz, -16dB
@2400-2500MHz, -11dB
5. ANTENNA MOUNTING METHOD: ADHESIVE
5. VISUAL QUALITY PER PULSE PQ5.030.000 CLASS III

BOTH CONNECTOR FACE DOWN

Mod	Explanation
01	COPY FROM W3332 REV12 AND FIRST RELEASE

 Pulse Finland Oy Automaatite 1 90440 Oulunsalo, Finland Tel: +358 207 935 500 Fax: +358 207 935 501 www.pulseelectronics.com/antennas	 Sheet number: 1/1 General Tolerance: Customer number:						
	Scale: 2:1 (A3) Drawn: WinZhu Chkd: Apprd:	Customer number: 20160905 Part Version: P01 Document Version: 01					
Product(s): W3332B0150 Item Name: W3332B0150 ASSEMBLY	Document number: W3332B0150 Part Version: P01 Document Version: 01						
	<table border="1"> <tr> <td>01</td> <td>05-Sep-16</td> <td>WinZhu</td> </tr> <tr> <td>Mod</td> <td>Date</td> <td>Name</td> </tr> </table>	01	05-Sep-16	WinZhu	Mod	Date	Name
01	05-Sep-16	WinZhu					
Mod	Date	Name					

Issue: 1649

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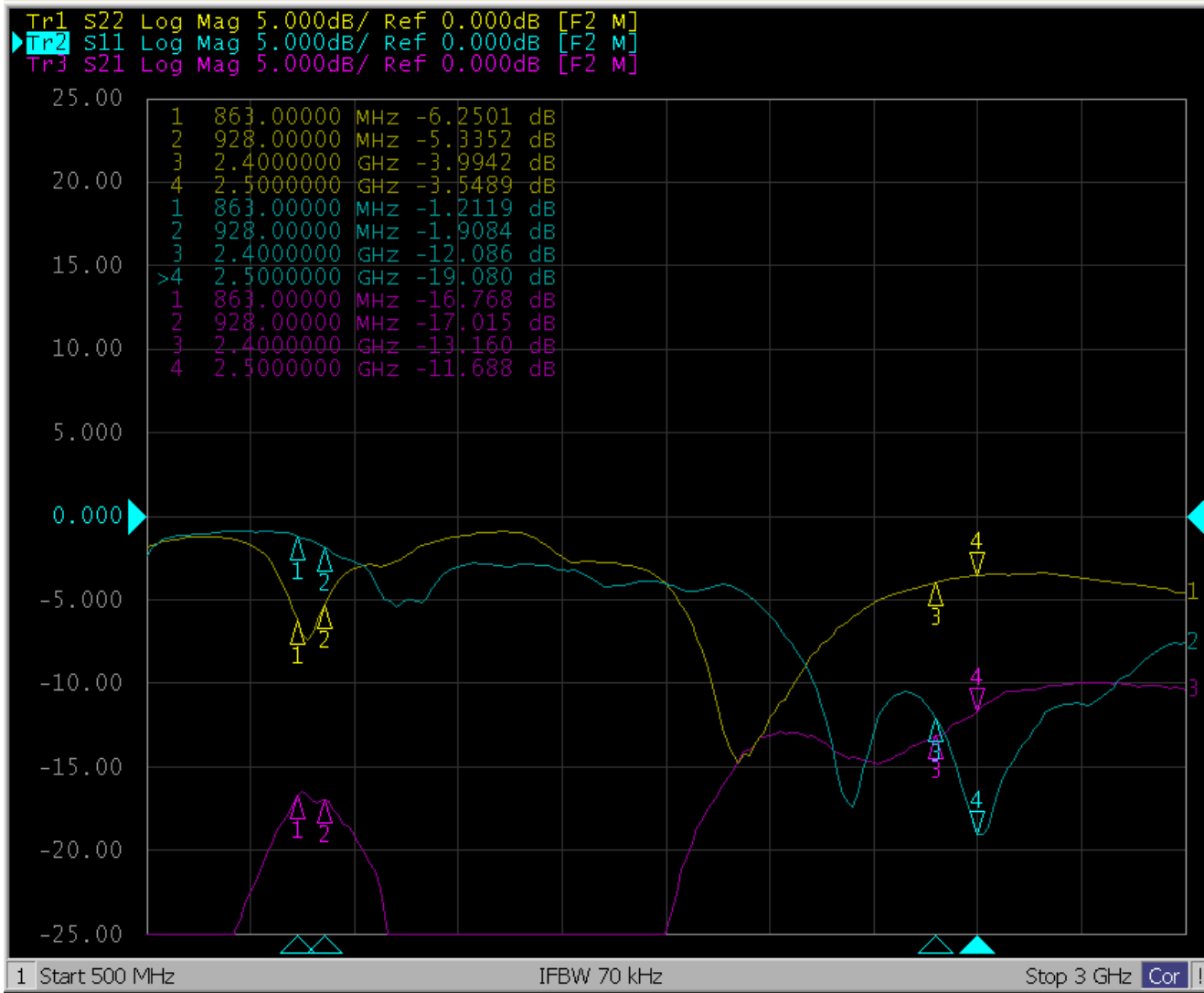
Description: ISM868/915MHz, 2.4GHz Antenna

Series: Internal

PART NUMBER: W3332B0150

CHARTS

Return loss



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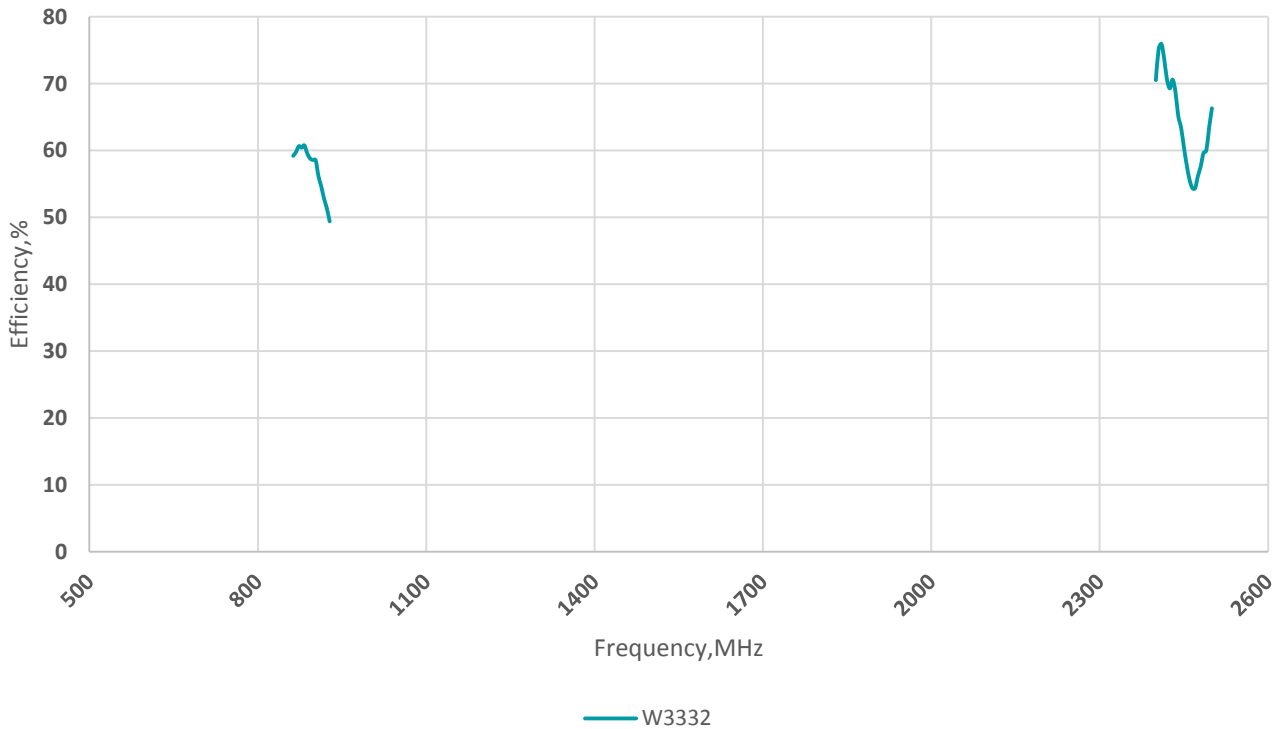
Series: Internal

PART NUMBER: W3332B0150

CHARTS

Efficiency

Efficiency vs Frequency measured in free space
W3332 measured in PSU



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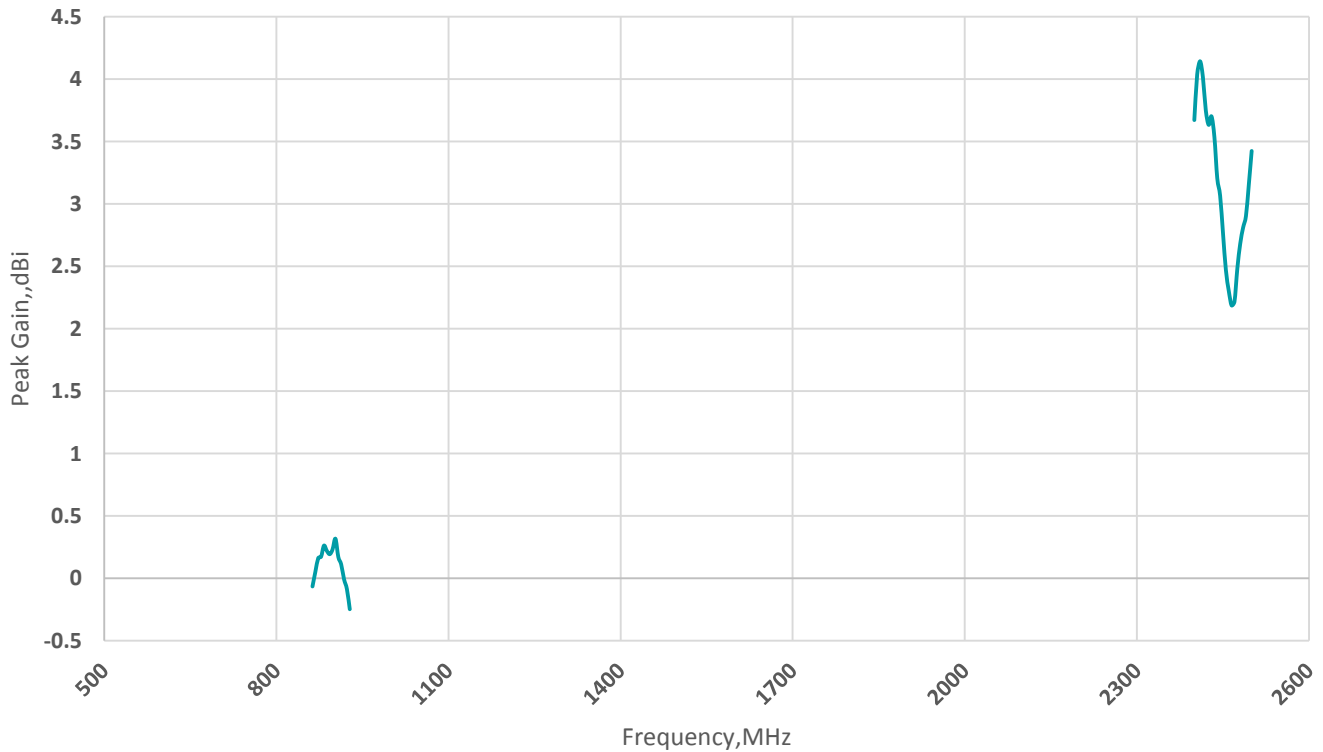
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CHARTS

Peak Gain

Peak Gain vs Frequency measured in free space
W3332 measured in PSU



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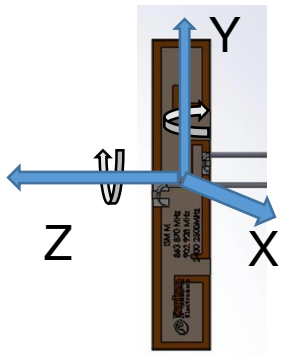
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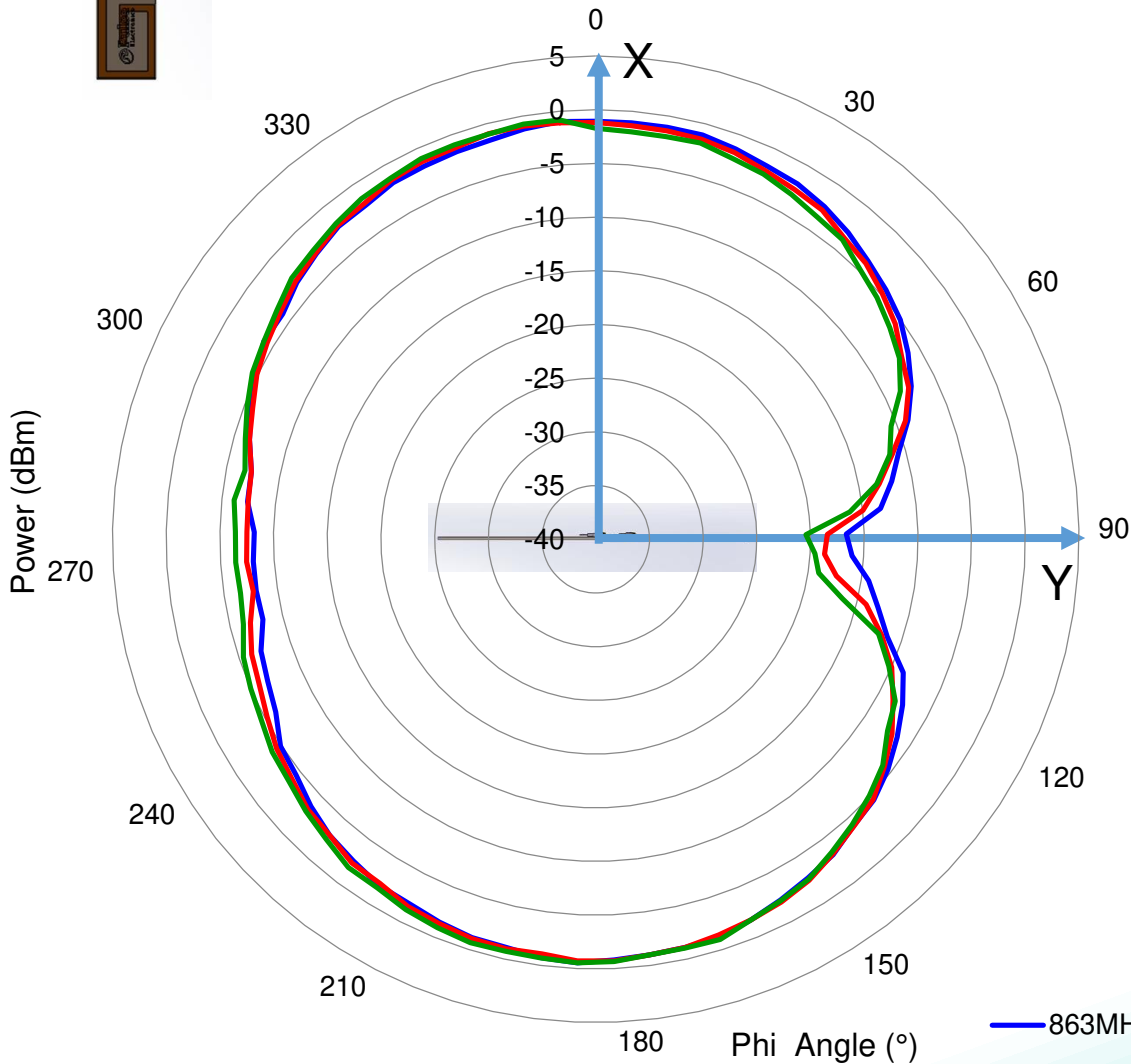
PART NUMBER: W3332B0150

CHARTS



Radiation Pattern
863-928MHz

XY Plane



863MHz
Avg (dBi) = -4.71
Peak (dBi) = -0.52
Avg -3 (deg) = 175
902MHz
Avg (dBi) = -4.88
Peak (dBi) = -0.7
Avg -3 (deg) = 180
928MHz
Avg (dBi) = -4.91
Peak (dBi) = -0.52
Avg -3 (deg) = 175

— 863MHz — 902MHz — 928MHz

Issue: 1649

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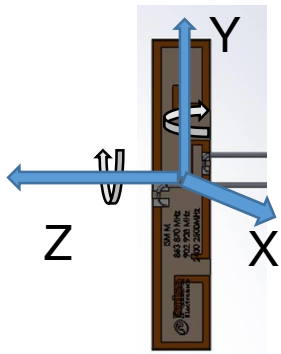
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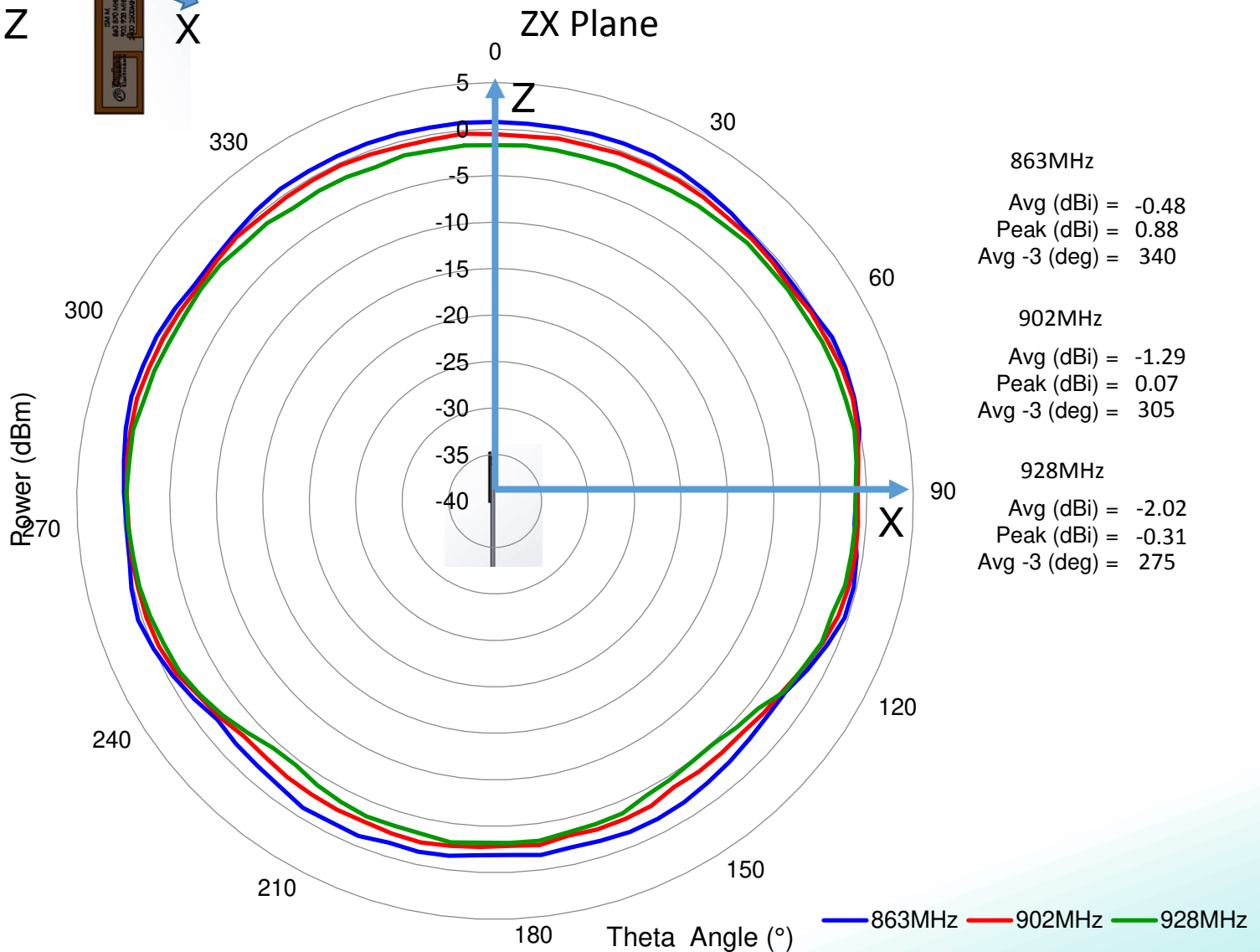
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CHARTS



Radiation Pattern
863-928MHz



Issue: 1649

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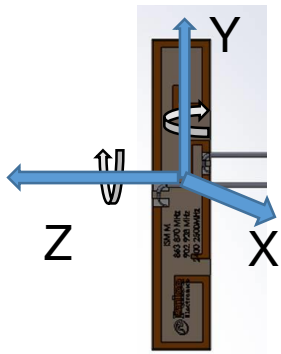


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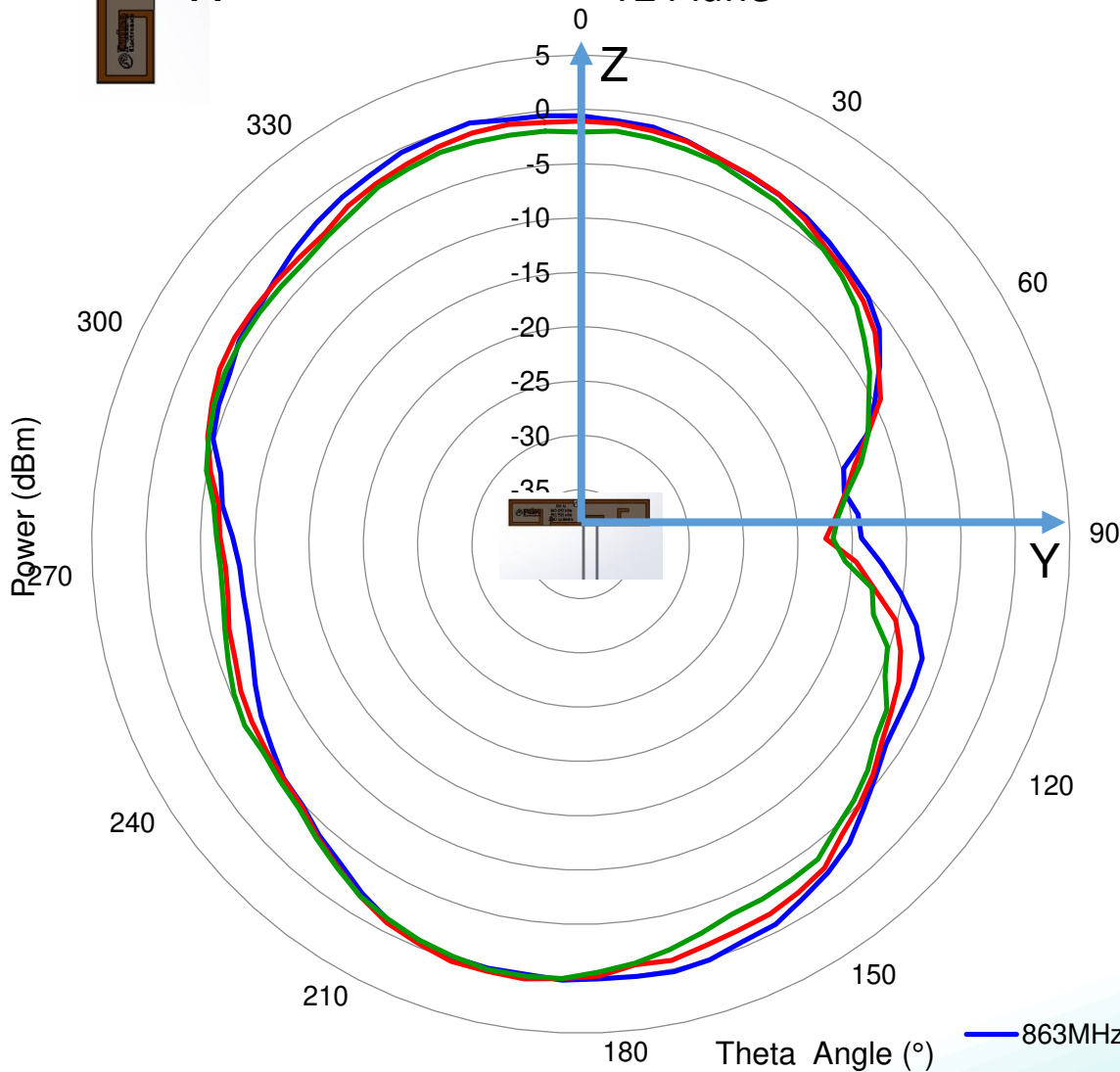
PART NUMBER: W3332B0150

CHARTS



Radiation Pattern
863-928MHz

YZ Plane



863MHz
Avg (dBi) = -4.40
Peak (dBi) = 0.25
Avg -3 (deg) = 145
902MHz
Avg (dBi) = -4.66
Peak (dBi) = 0.33
Avg -3 (deg) = 130
928MHz
Avg (dBi) = -5.08
Peak (dBi) = 0.08
Avg -3 (deg) = 110

— 863MHz — 902MHz — 928MHz

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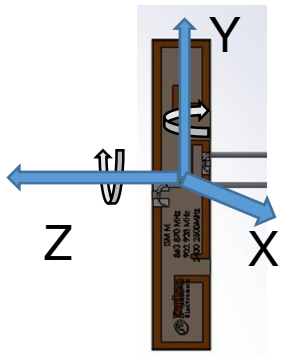
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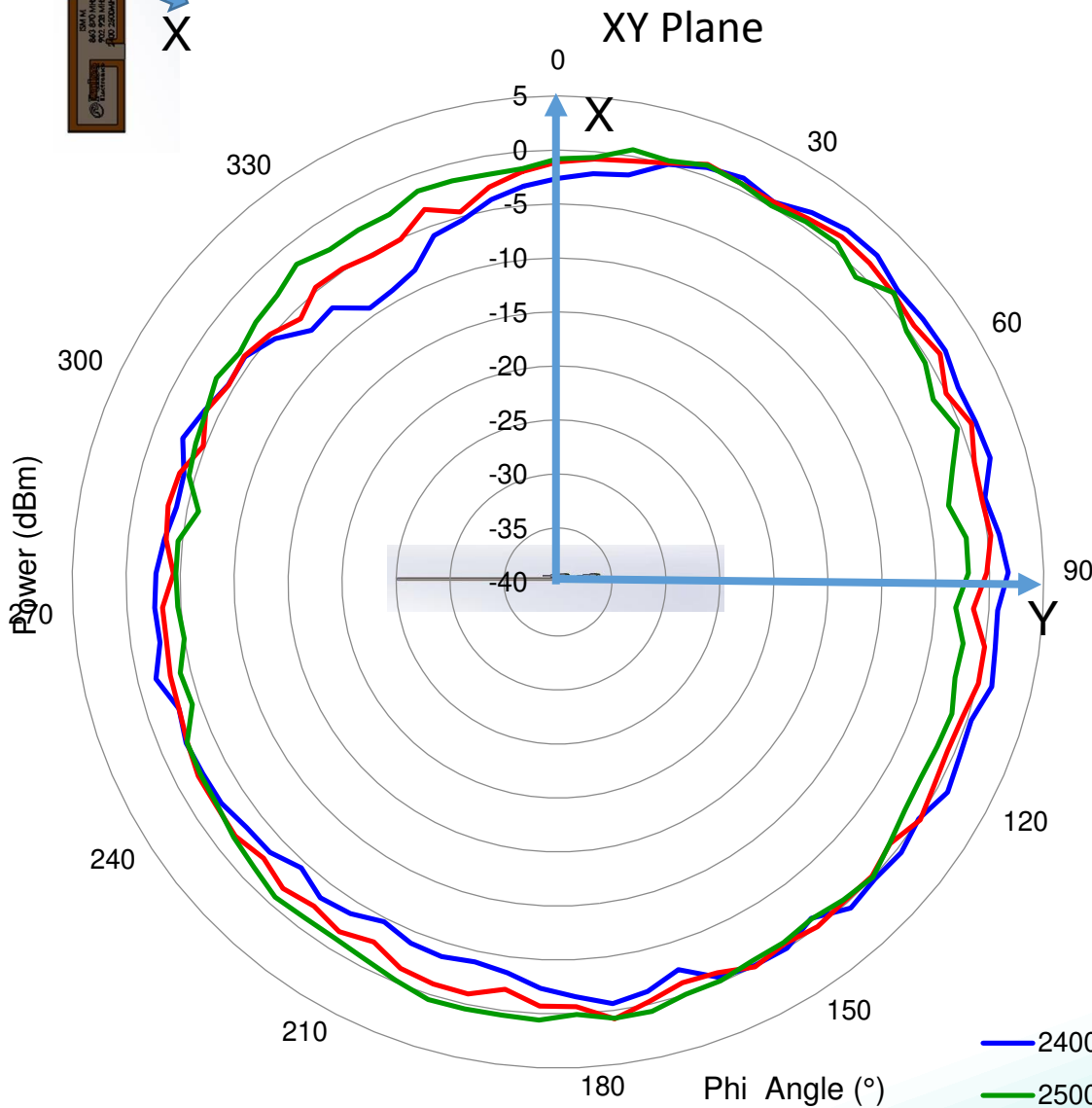
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PART NUMBER: W3332B0150

CHARTS



Radiation Pattern
2400-2500MHz



2400MHz
Avg (dBi) = -1.91
Peak (dBi) = 2.27
Avg -3 (deg) = 145
2450MHz
Avg (dBi) = -1.54
Peak (dBi) = 1.39
Avg -3 (deg) = 185
2500MHz
Avg (dBi) = -1.52
Peak (dBi) = 1.06
Avg -3 (deg) = 225

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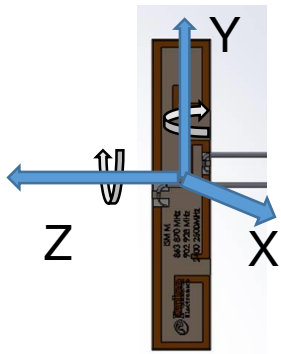
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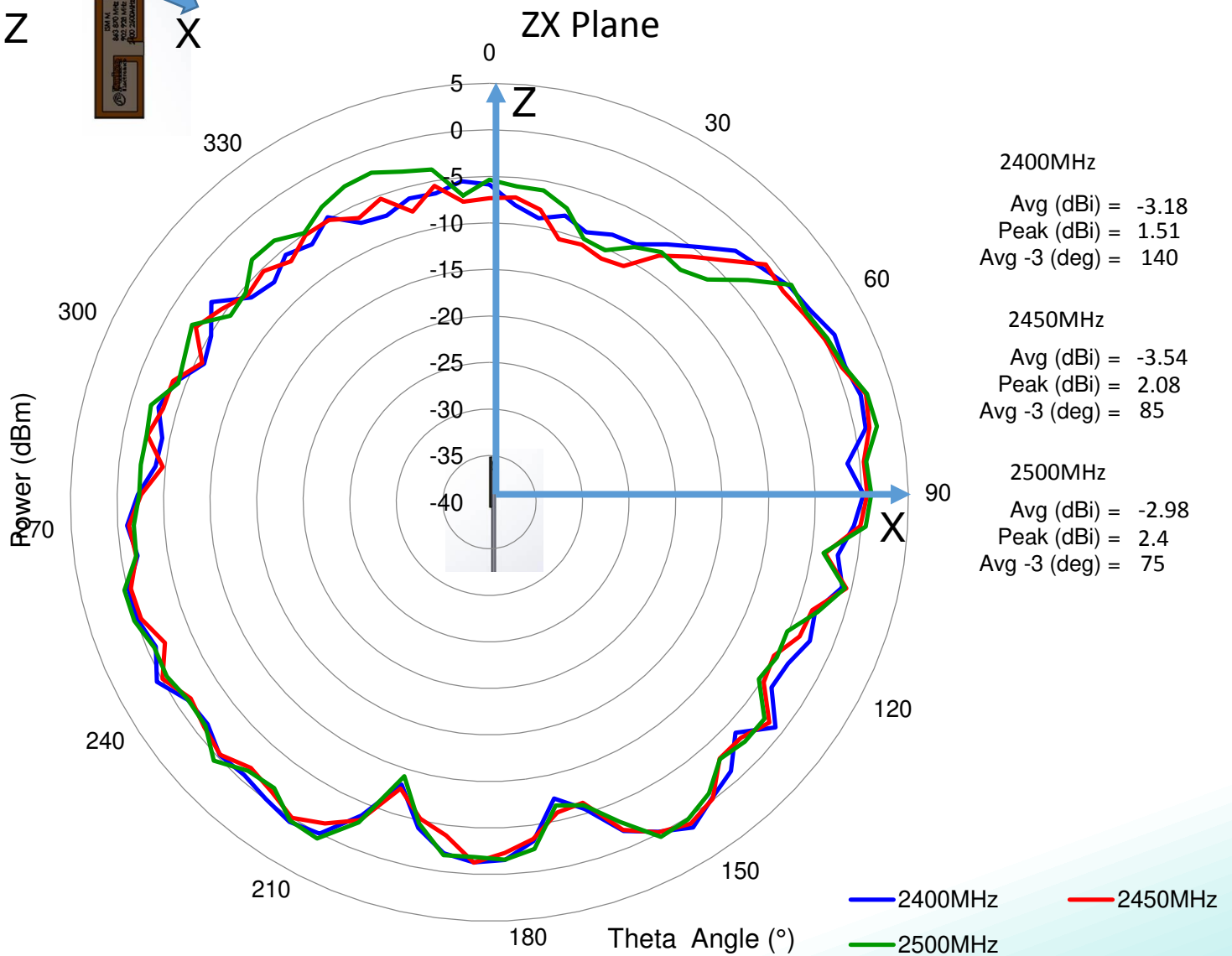
Series: Internal

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CHARTS



Radiation Pattern
2400-2500MHz



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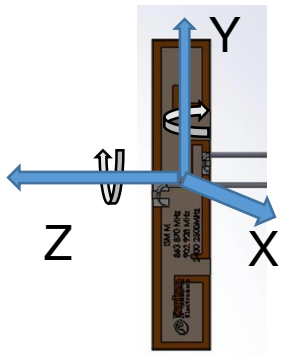
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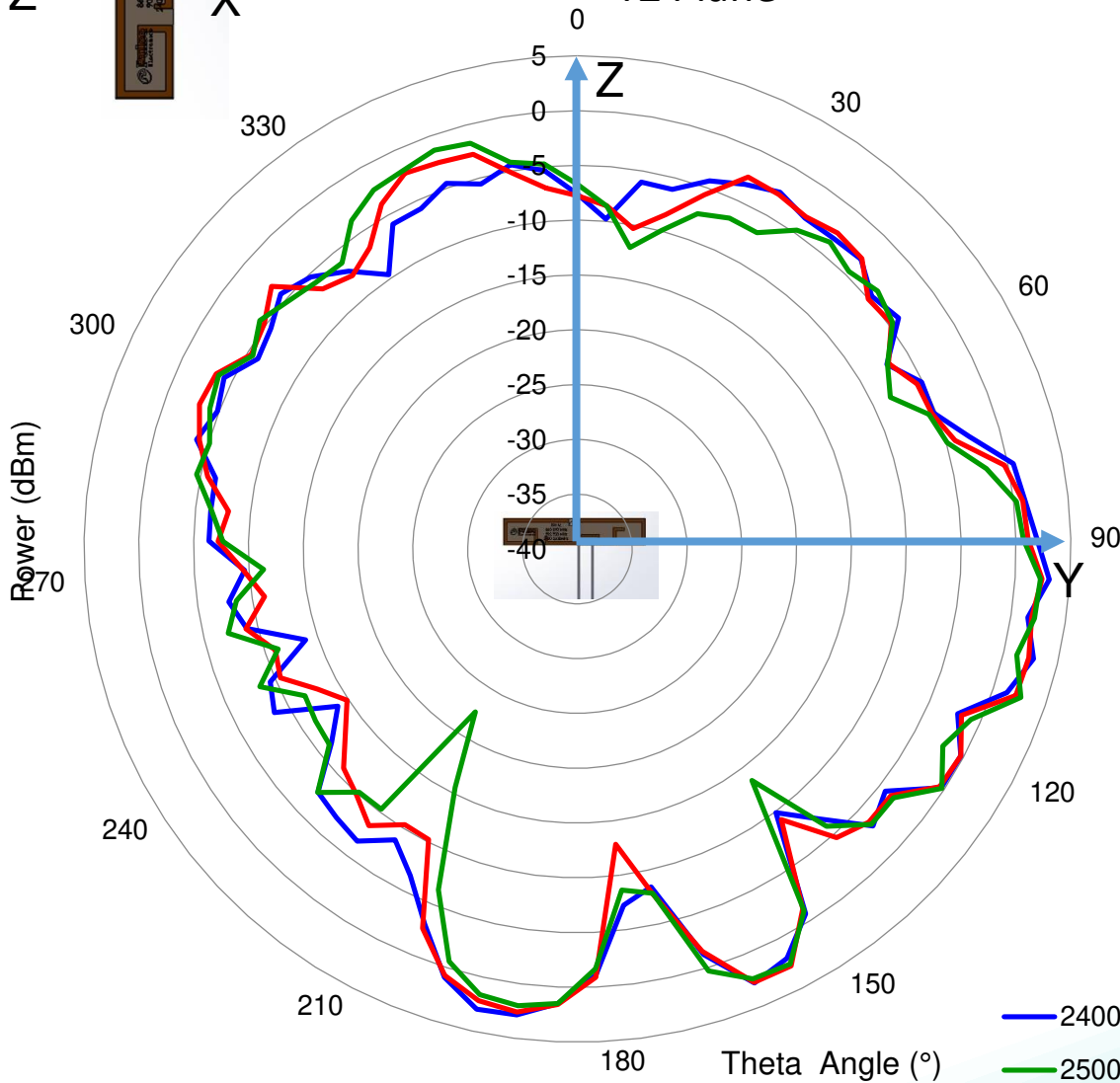
PART NUMBER: W3332B0150

CHARTS



Radiation Pattern
2400-2500MHz

YZ Plane



2400MHz	Avg (dBi) = -4.48
	Peak (dBi) = 3.12
	Avg -3 (deg) = 60
2450MHz	Avg (dBi) = -4.77
	Peak (dBi) = 2.73
	Avg -3 (deg) = 60
2500MHz	Avg (dBi) = -5.09
	Peak (dBi) = 2.65
	Avg -3 (deg) = 60

— 2400MHz — 2450MHz
— 2500MHz

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Description: ISM868/915MHz, 2.4GHz Antenna

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PACKAGING

10PCS/PE bag

1000PCS/box



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