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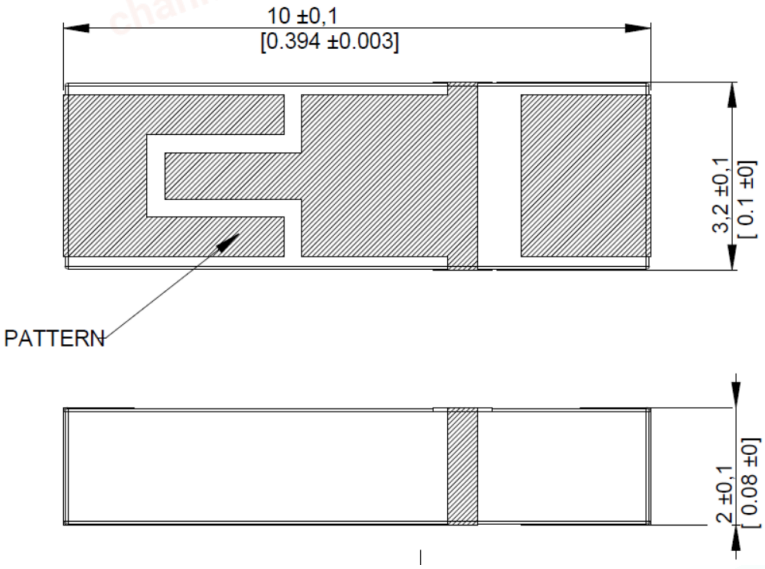
TECHNICAL DATA SHEET

Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320





Features:

- 3 in1 –combo antenna
  - Port 1: 868/915MHz
  - Port 2: 2.4GHz
- Compact size 3.2x10x2mm
- SMT mounting on PCB
- Tape & Reel packing
- High isolation between ports >20dB

Applications:

- ISM band radios
- 868MHz, 915MHz, 2.4GHz
- IoT, M2M, set top boxes, devices requiring small embedded multiband ISM antenna

All dimensions are in mm / inches

Issue: 2049

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Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
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Jiangsu Province, Suzhou 215009 PR China
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TECHNICAL DATA SHEET

Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

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ELECTRICAL SPECIFICATIONS

Frequency	ISM868/915MHz, ISM2.4GHz
Nominal Impedance	50Ω
Return Loss	<-7dB @868/915MHz
	<-5dB@2.4
Gain	1dBi +/- 1 dB@868/915MHz
	3dBi +/- 1 dB@2.4GHz
Radiation Pattern	Omni
Polarization:	Vertical
Power withstanding	2W

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MECHANICAL SPECIFICATIONS

Weight	0.3	g
Overall Length	10[0.39]	MM[INCHES]
Over all width	3.2[0.12]	MM[INCHES]
Over all thickness	2[0.08]	MM[INCHES]
MSL Level		1

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85° C

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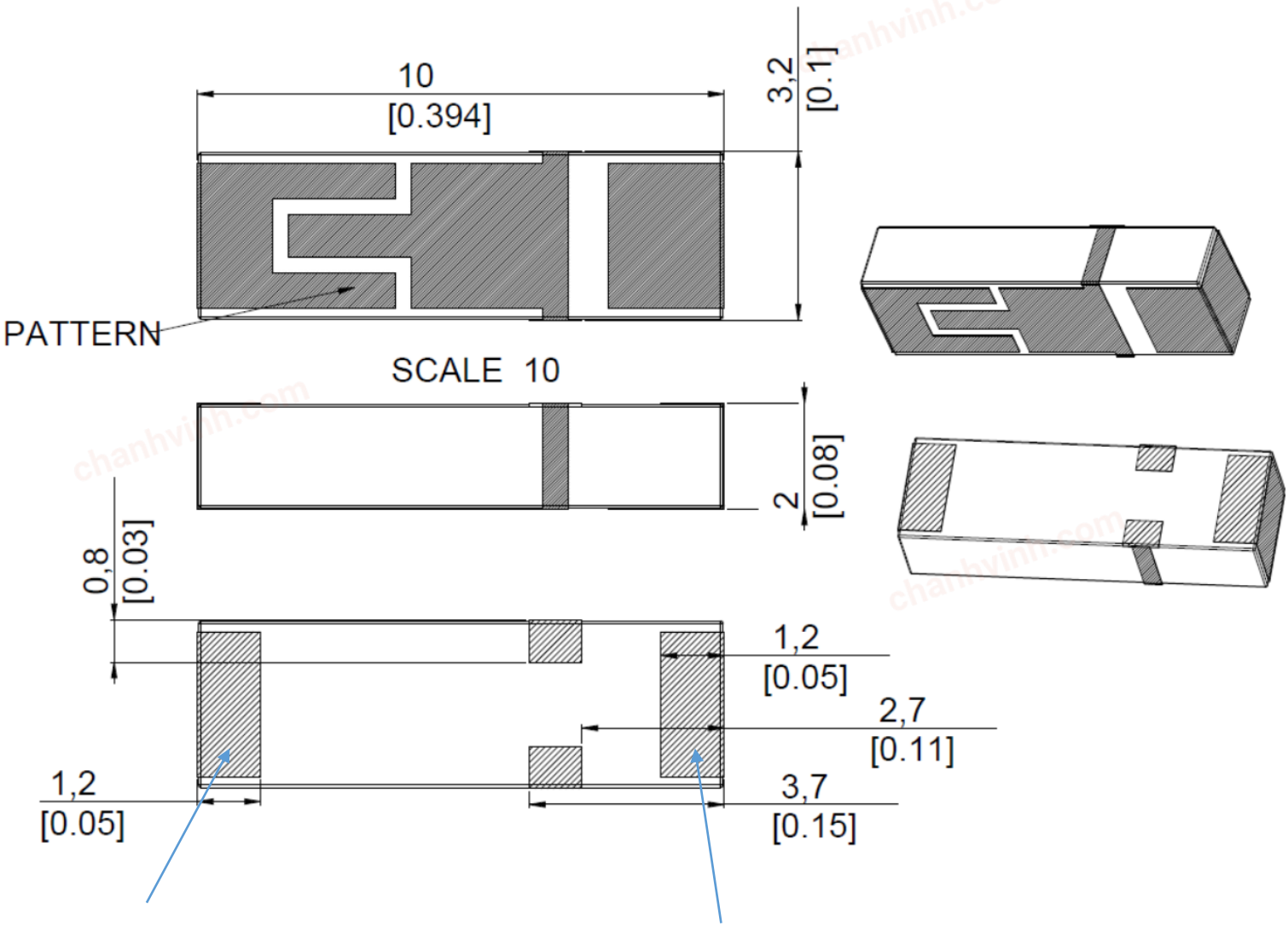
TECHNICAL DATA SHEET

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MECHANICAL DRAWING



Port 1 for 868/915

Port 2 for 2.4G

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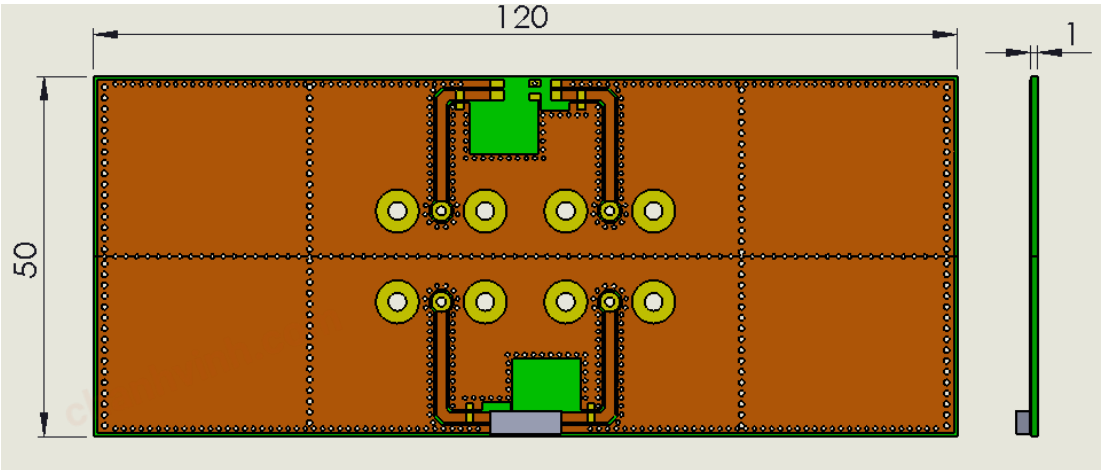
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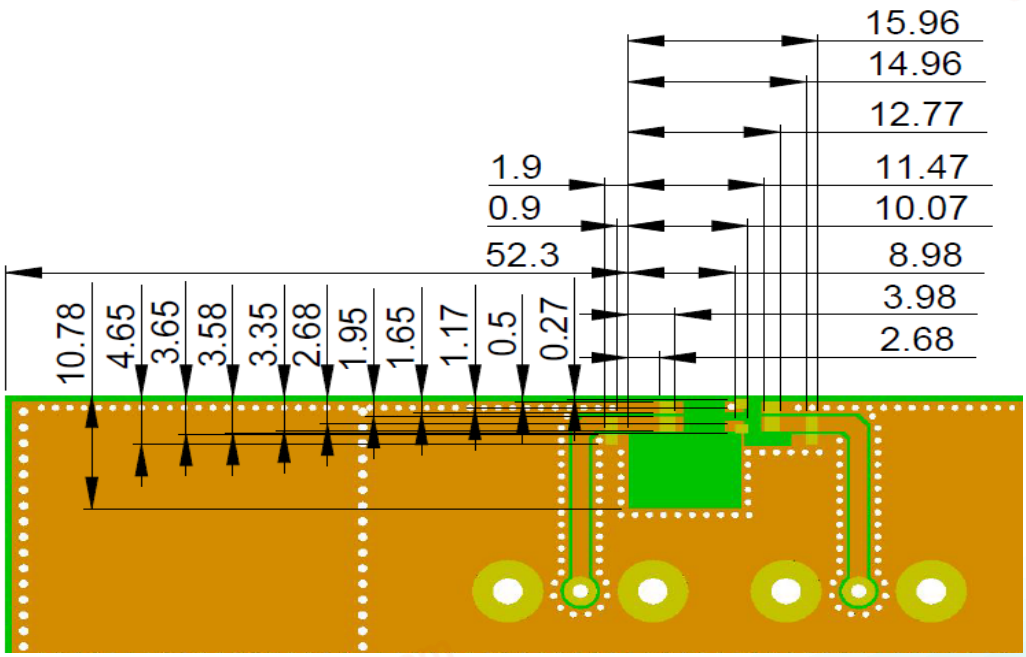
OTHER SPECIFICATIONS

PCB LAYOUT

1, PCB material, FR4, size, 120X50X1mm



2, Clearance area (Top)



Issue: 2049

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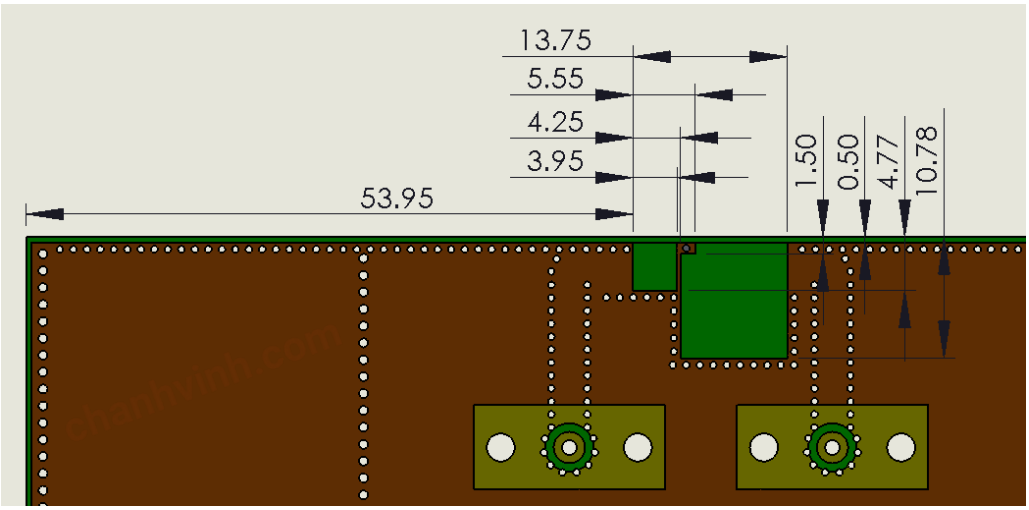
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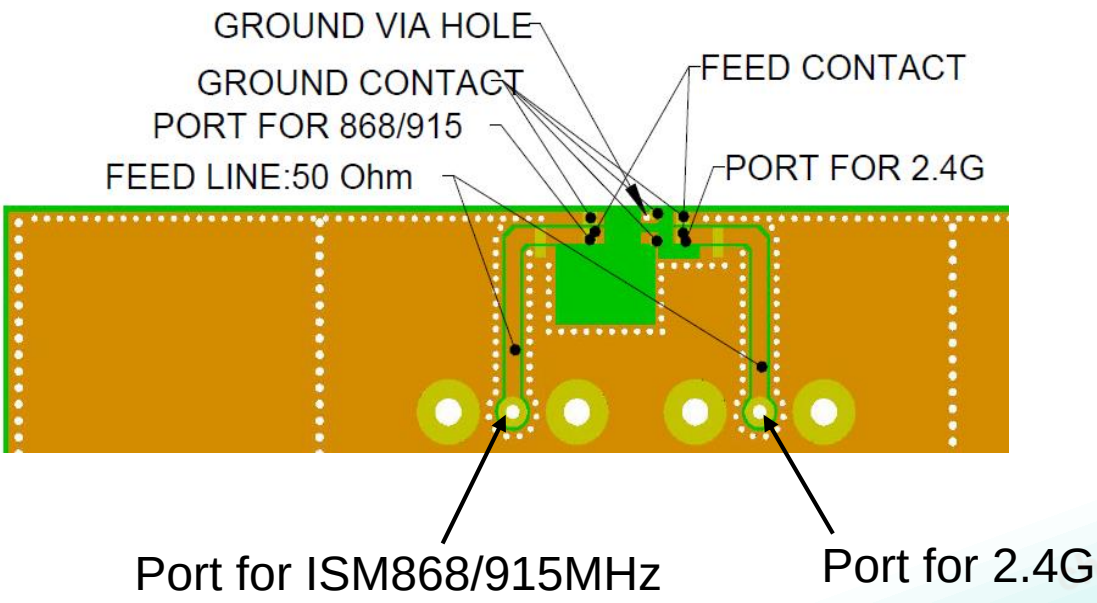
OTHER SPECIFICATIONS

PCB LAYOUT

3, Clearance area (Bottom)



4, PCB Features



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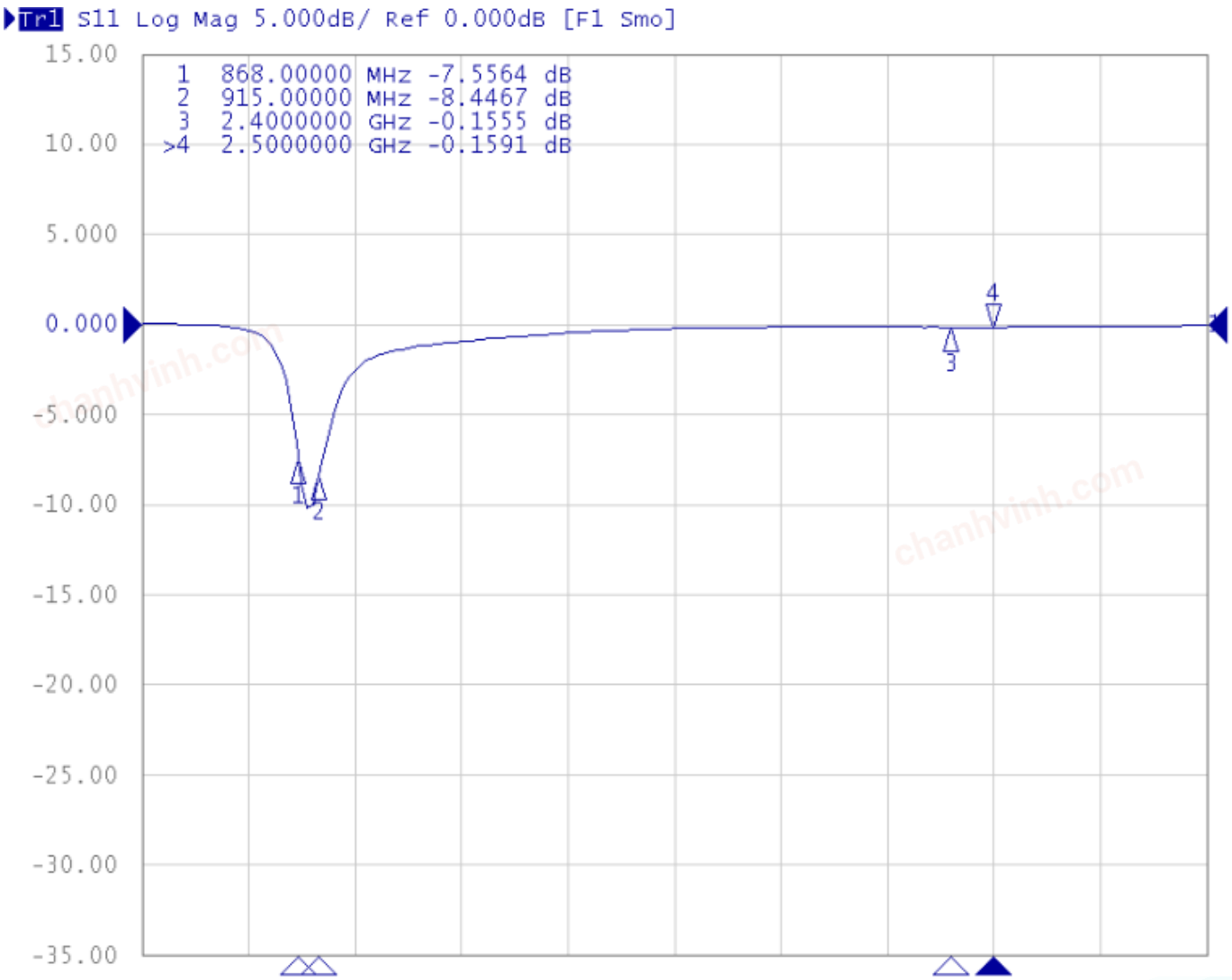
Series: Ceramic antenna

PART NUMBER: W3320

CHARTS

Return Loss

ISM868/915MHz



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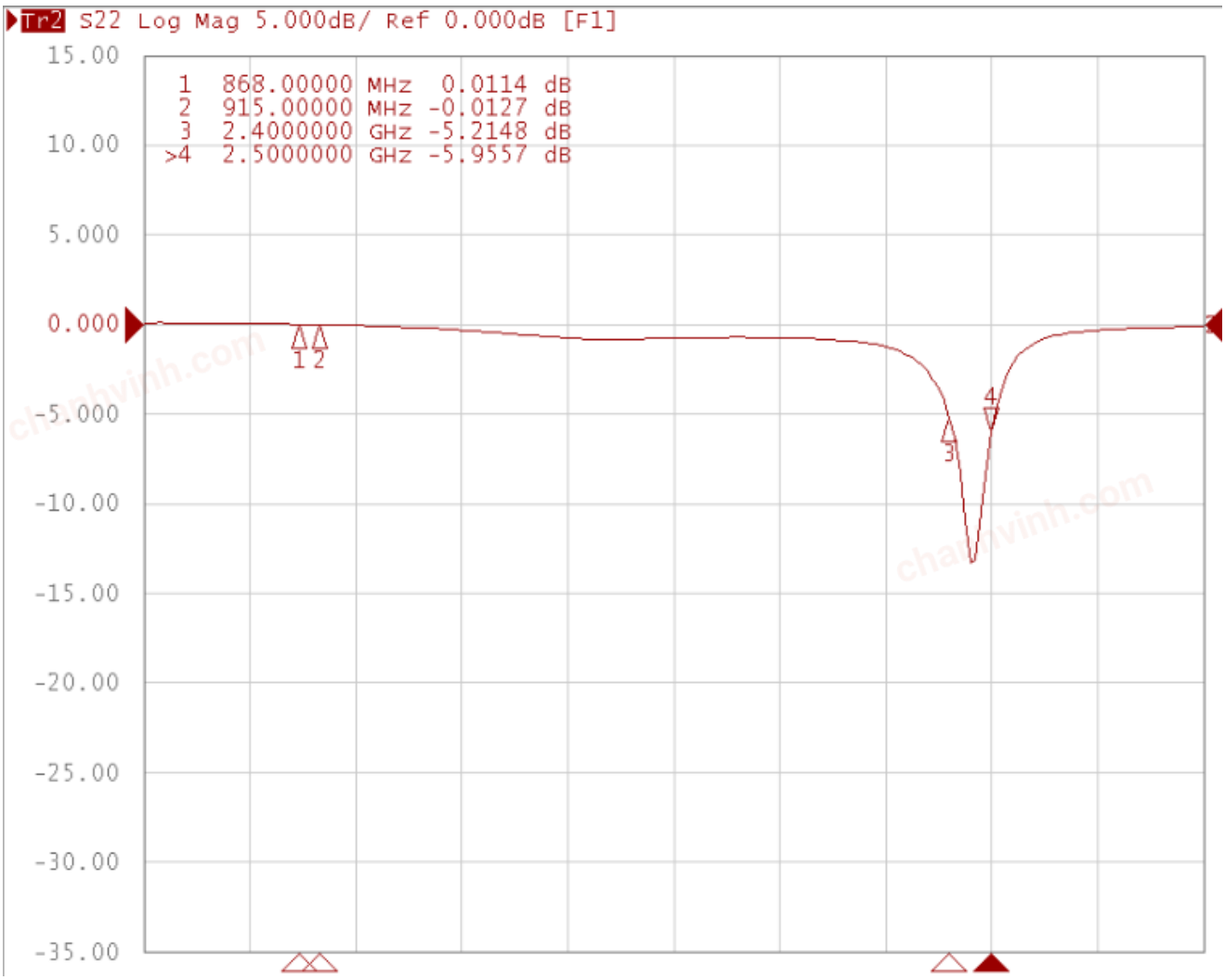
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CHARTS

Return Loss

ISM2.4G



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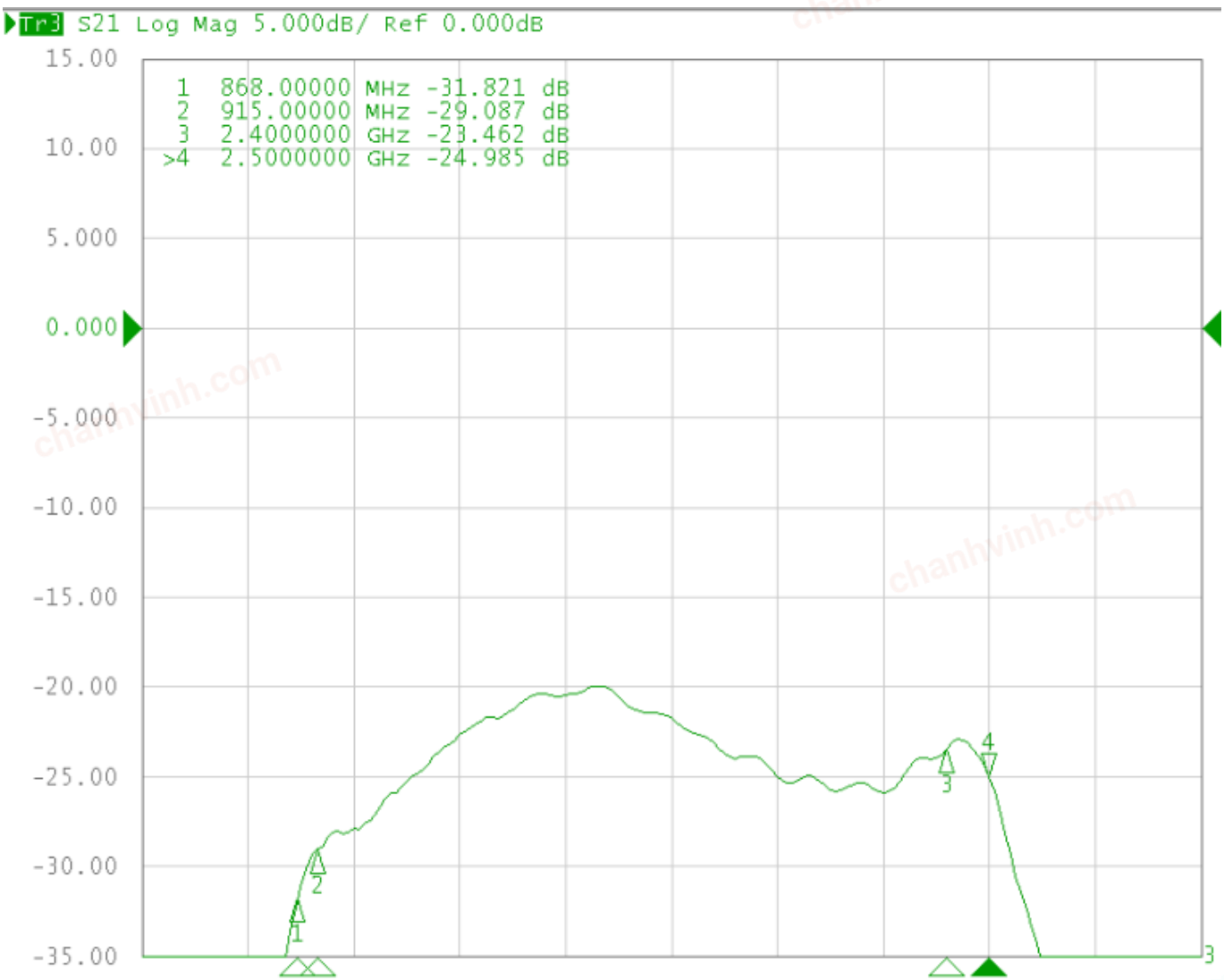
Description: ISM868/915, ISM2.4G

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PART NUMBER: W3320

CHARTS

Isolation



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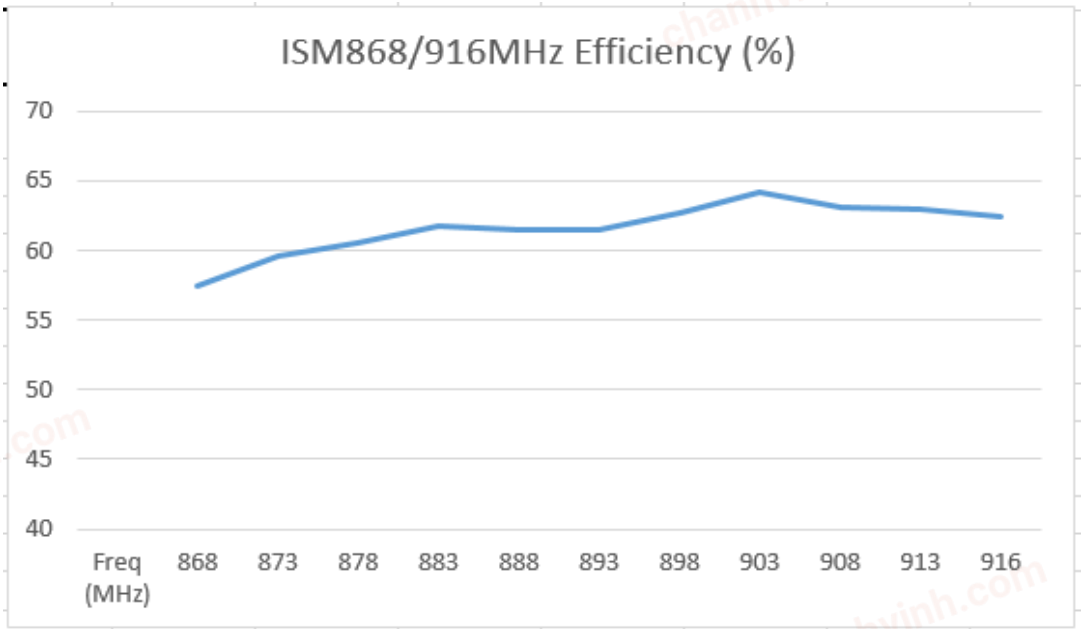
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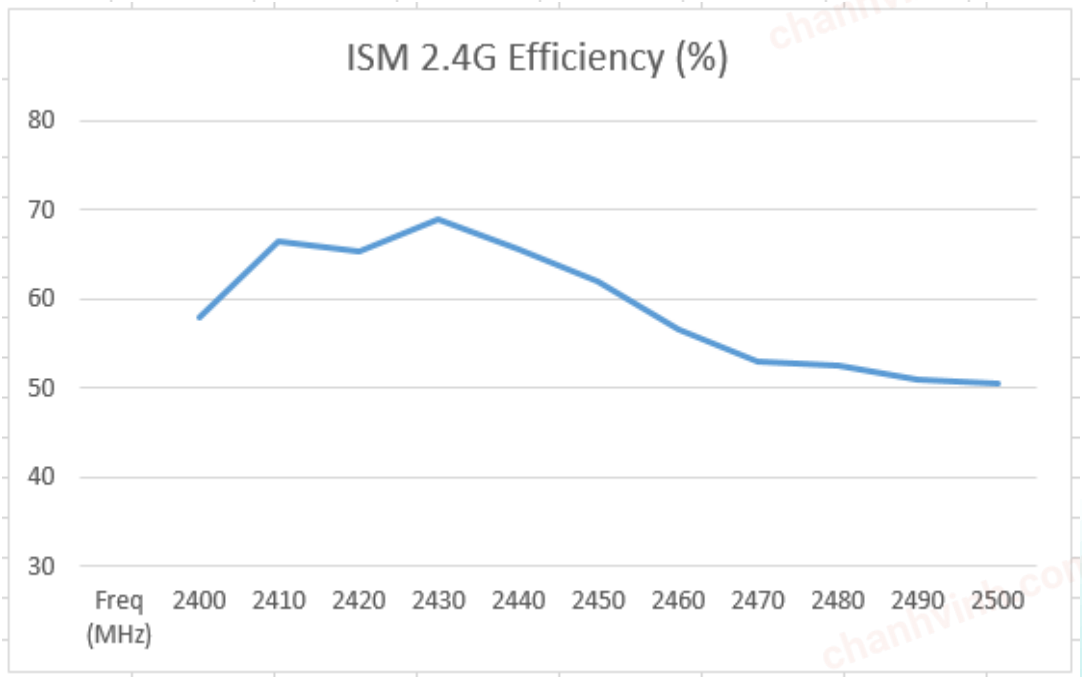
Series: Ceramic antenna

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CHARTS

Efficiency(%)





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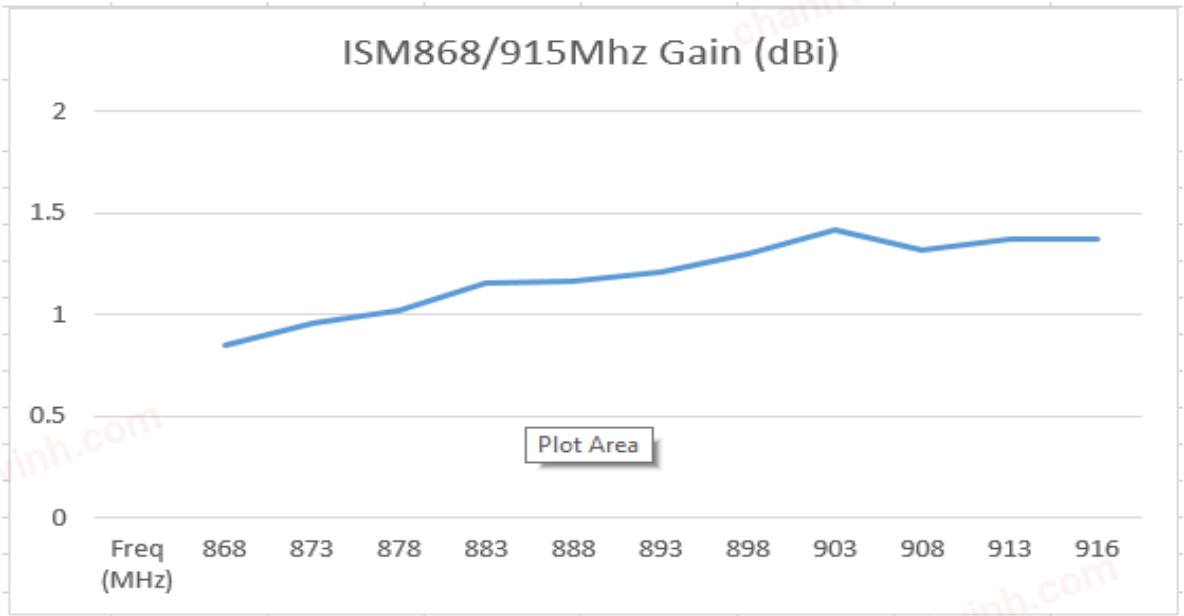
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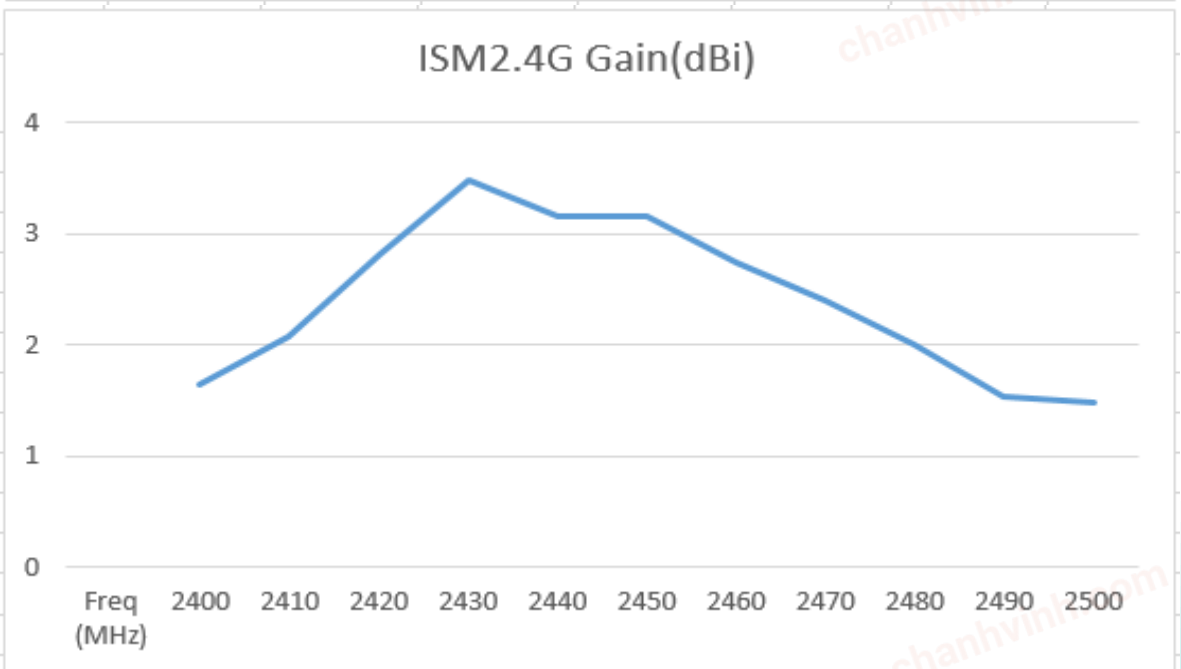
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CHARTS

Gain (dBi)





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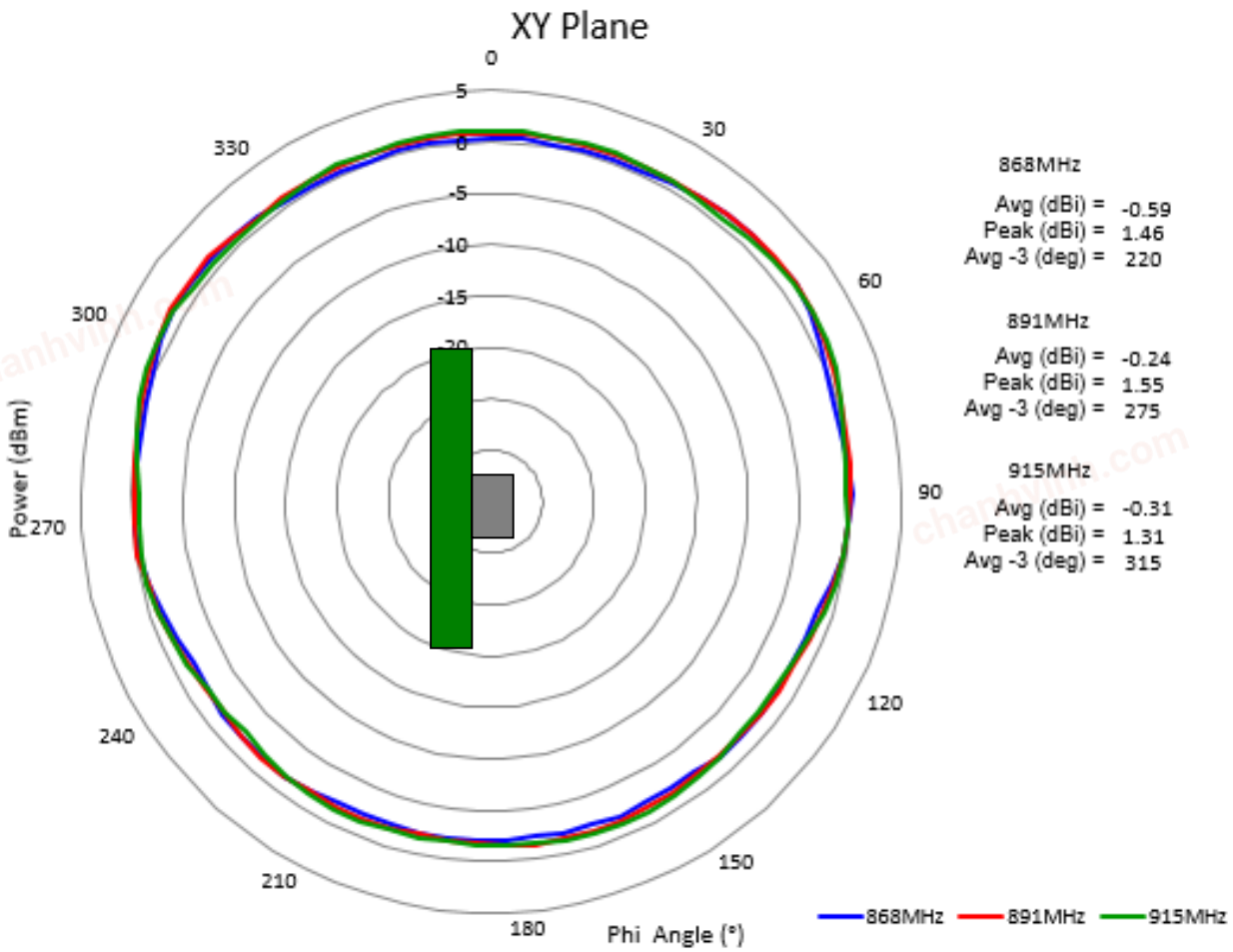
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CHARTS

Typical free space radiation pattern
ISM868/915MHz
X-Y plane



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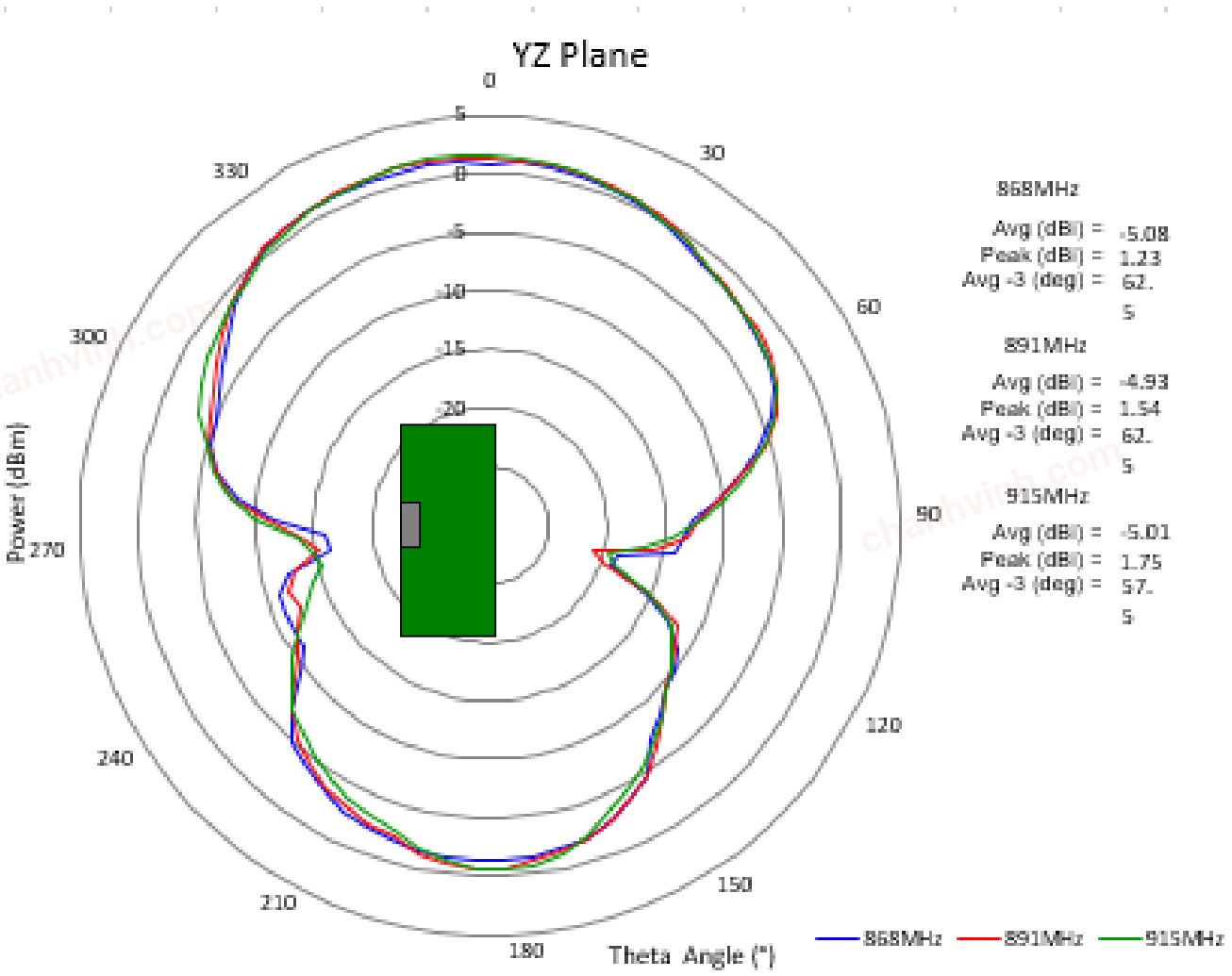
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CHARTS

ISM868/915MHz
Y-Z plane



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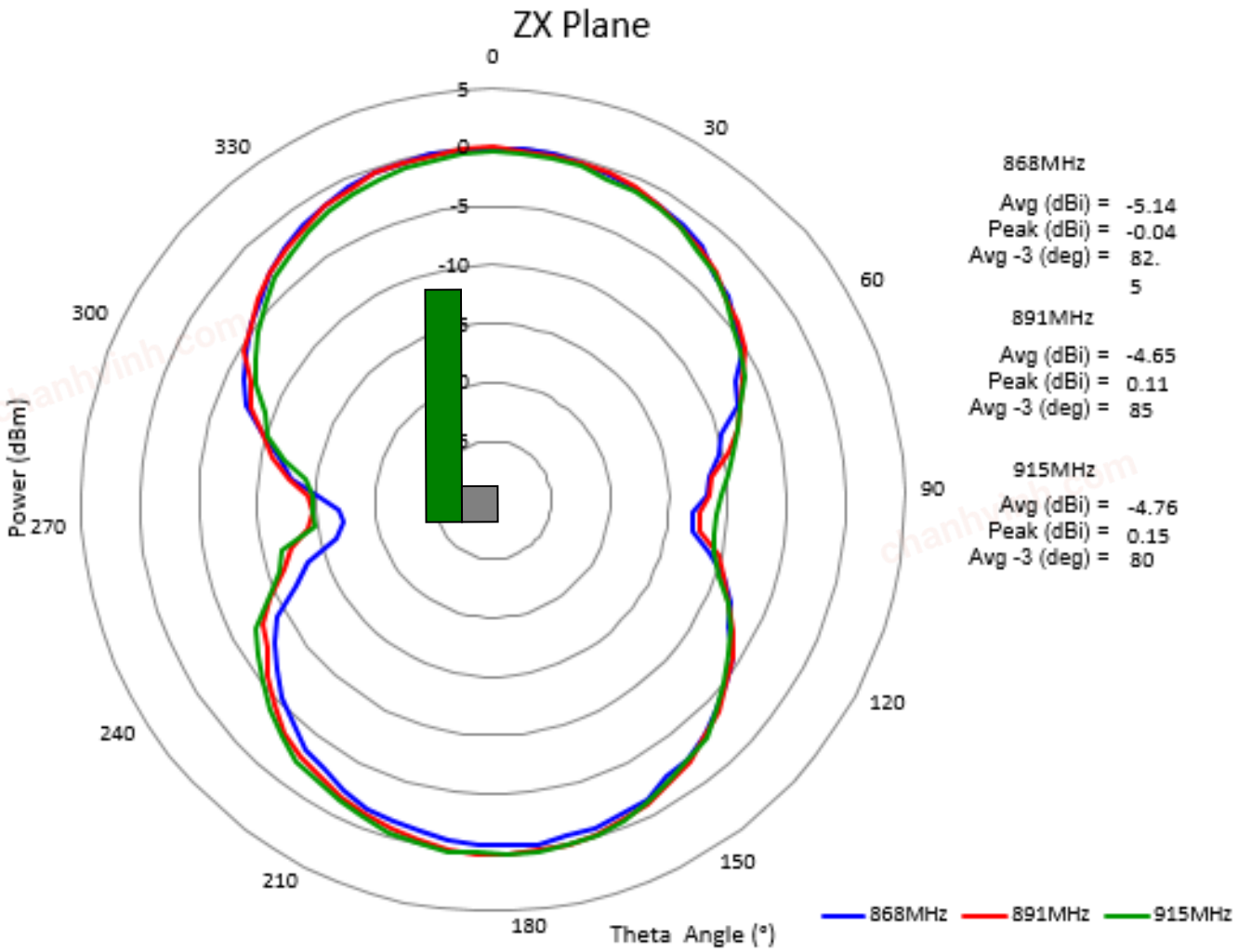
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CHARTS

ISM868/915MHz
X-Z plane



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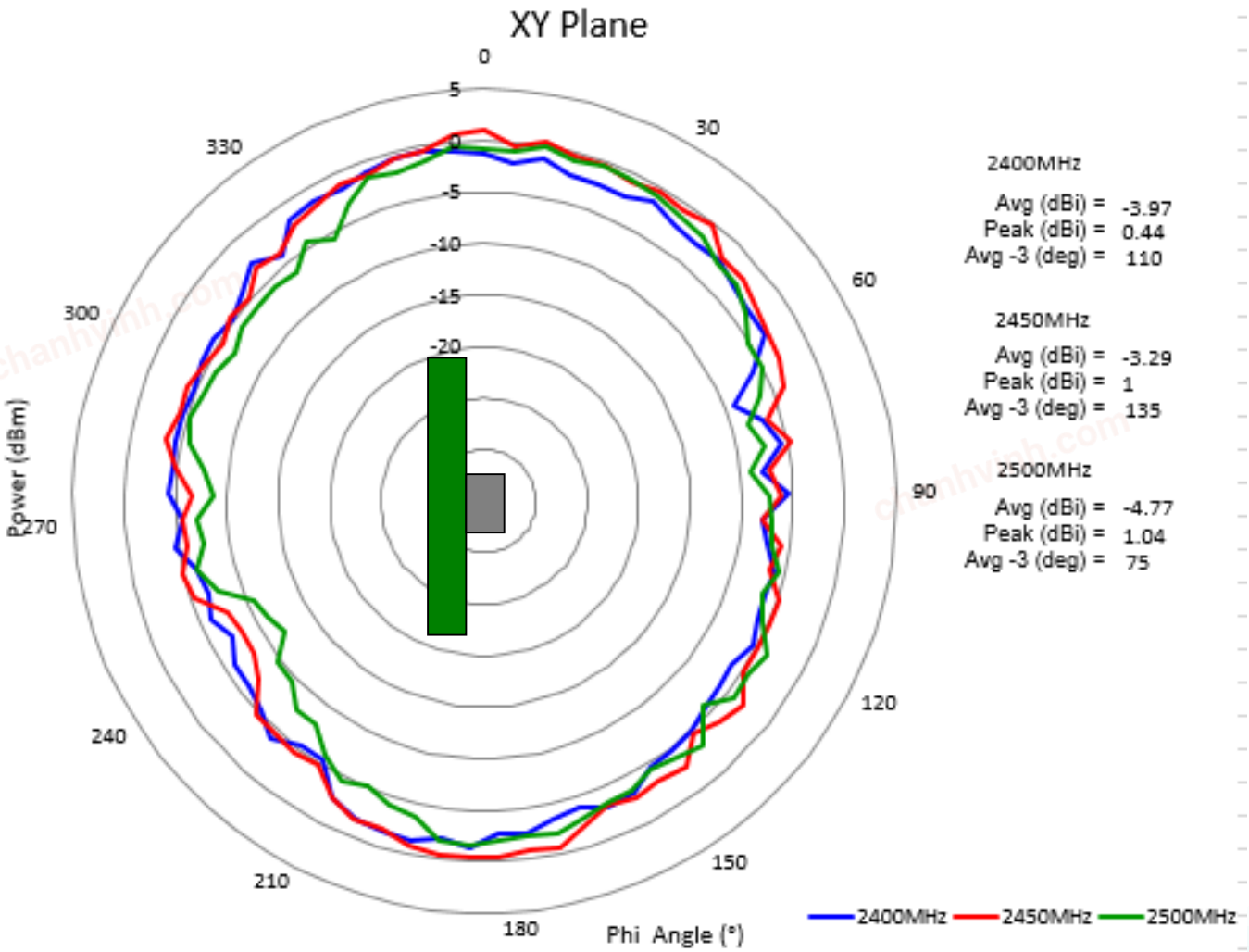
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CHARTS

Typical free space radiation pattern
ISM2.4GHz
X-Y plane



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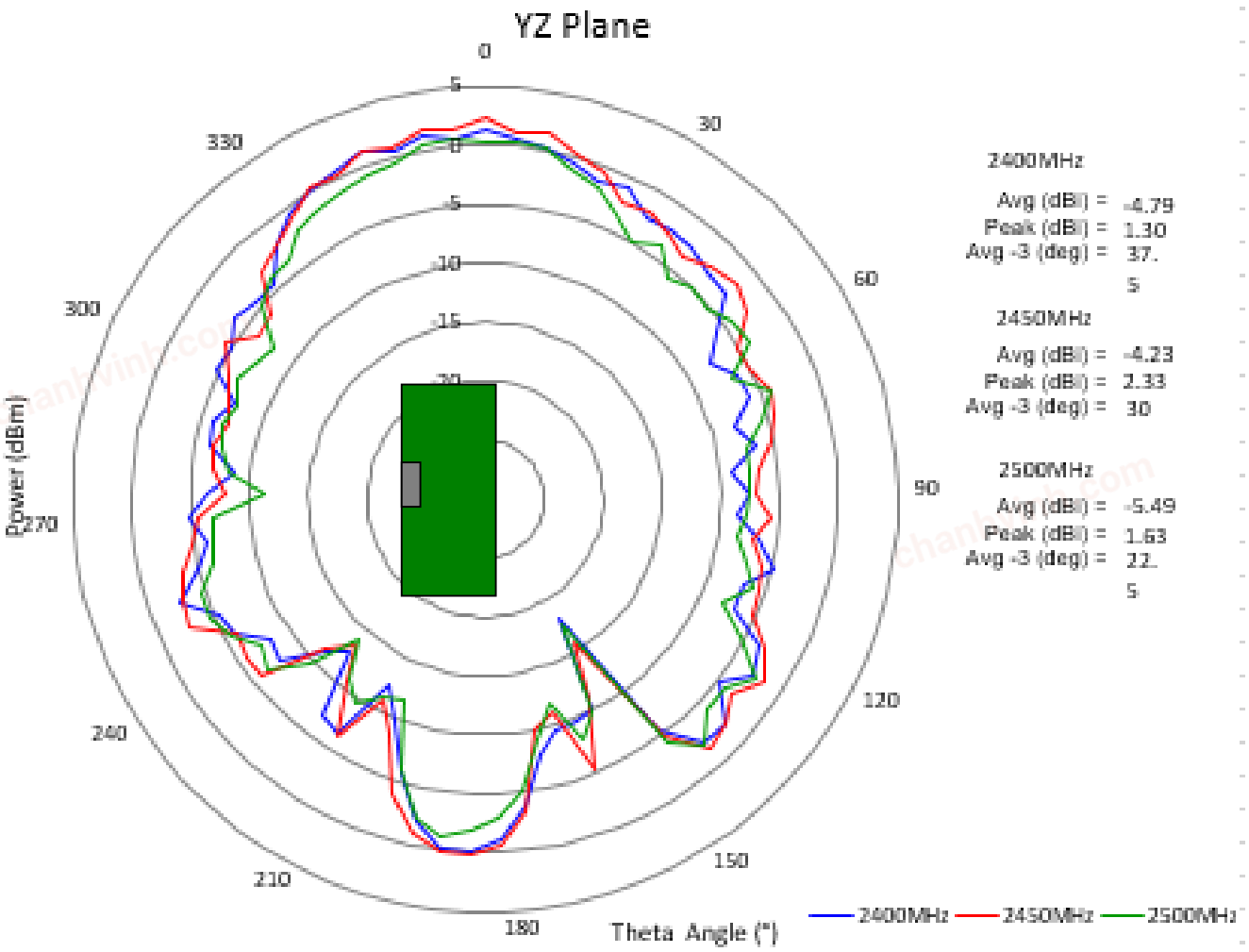
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CHARTS

ISM 2.4GHz
Y-Z Plane



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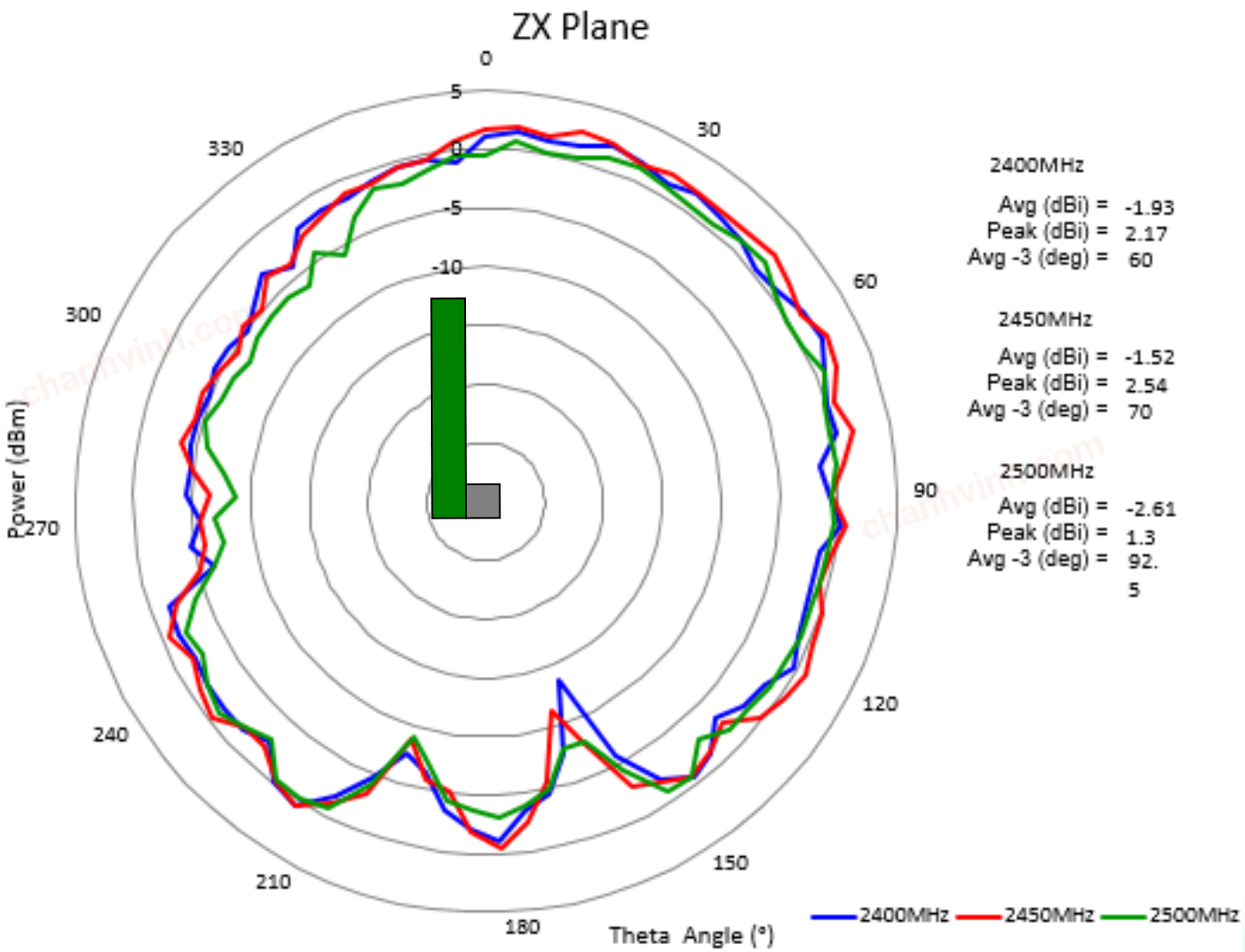
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X-Z Plane



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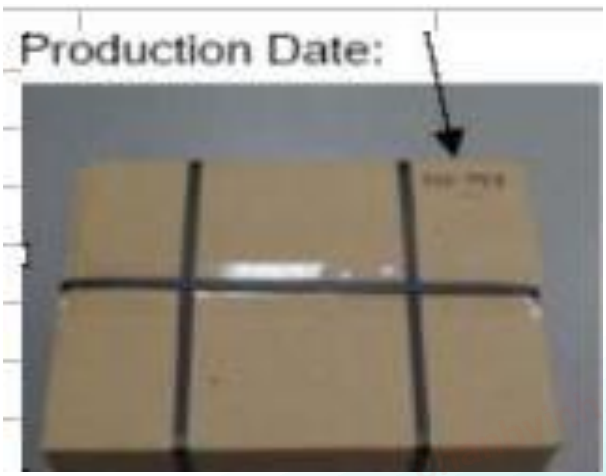
PACKAGING

Taping package
1000PCS/Reel
3000PCS/Small box
6000PCS/Carton box









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