

Description: ISM868/915, ISM2.4G

Series: Ceramic antenna

PART NUMBER: W3320

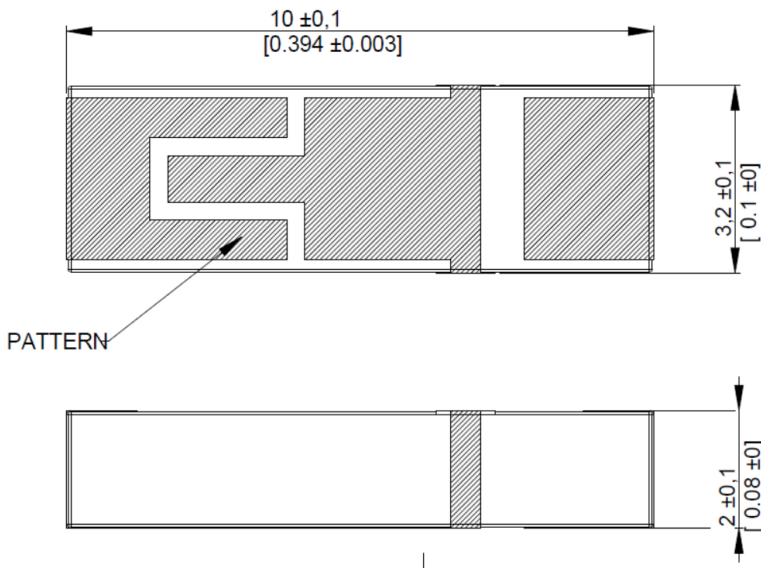


**Features:**

- 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

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Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



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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]

### ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85° C
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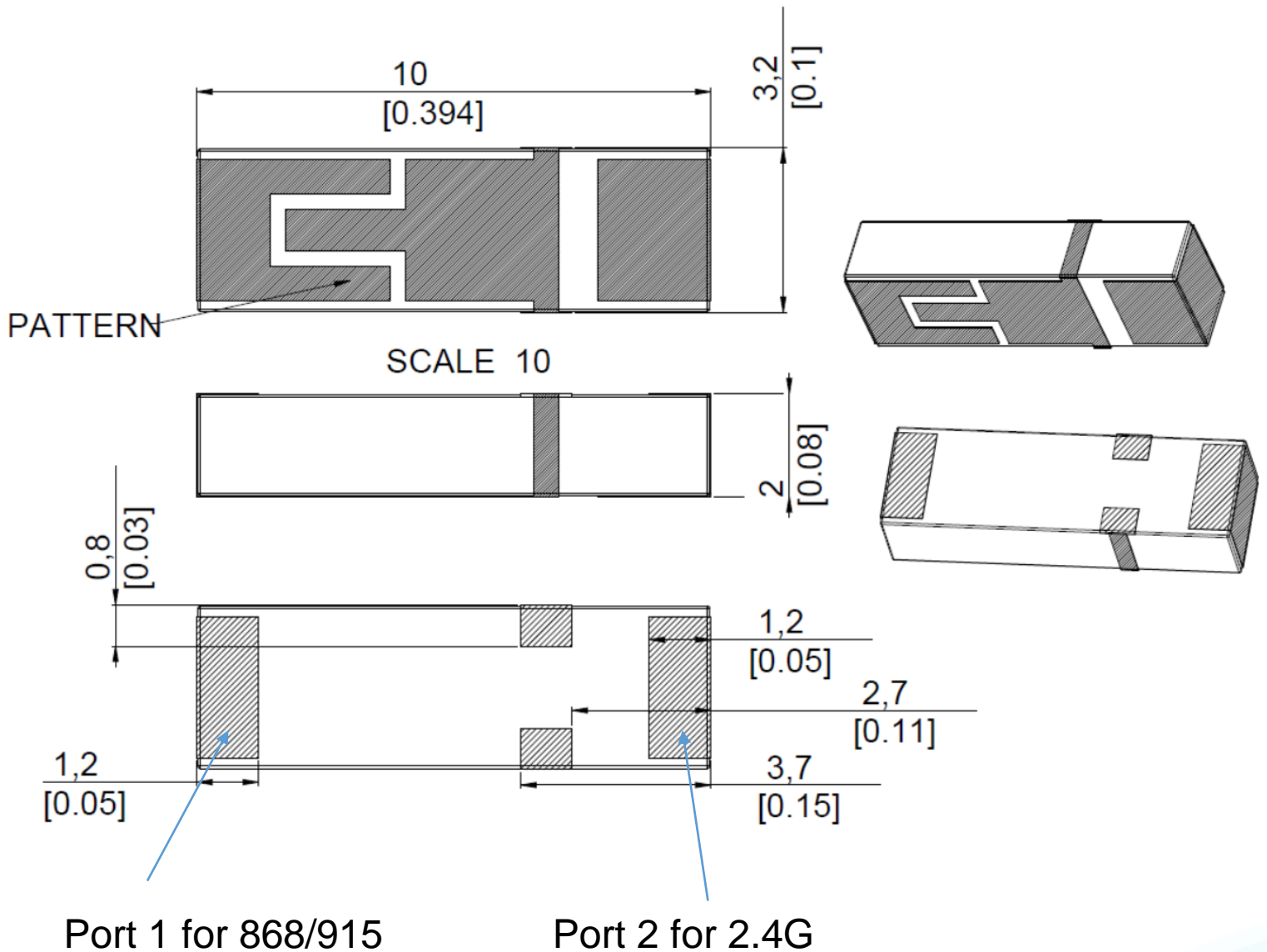
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MECHANICAL DRAWING



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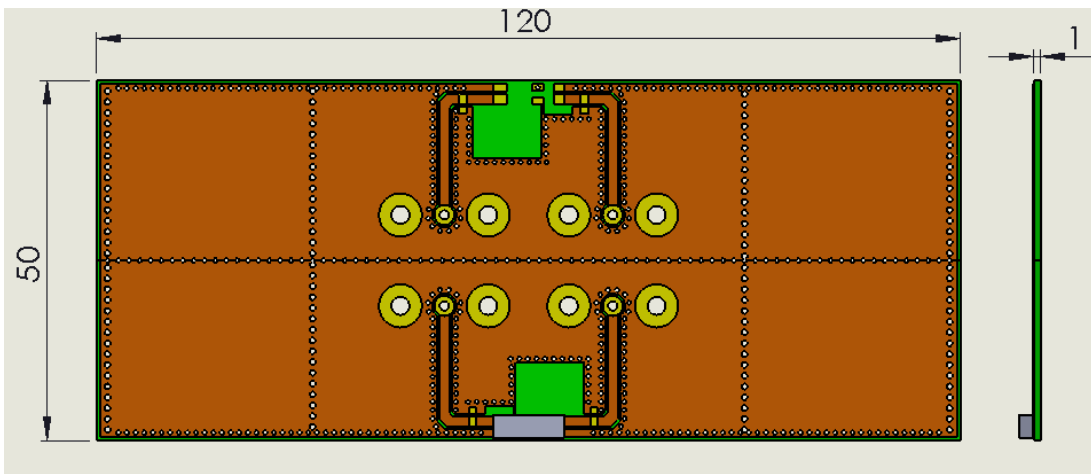
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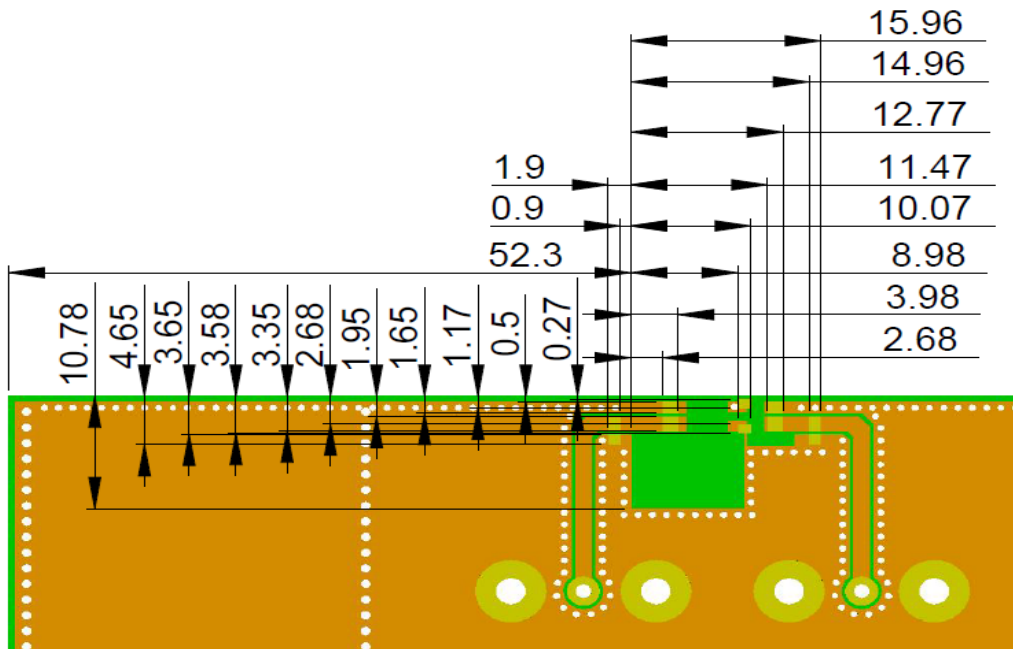
OTHER SPECIFICATIONS

PCB LAYOUT

1, PCB material, FR4, size, 120X50X1mm



2, Clearance area (Top)



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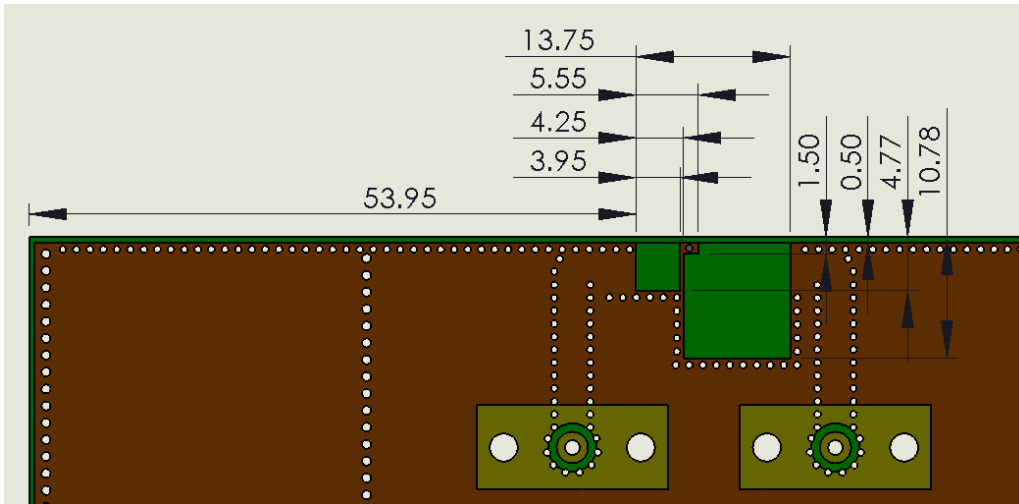
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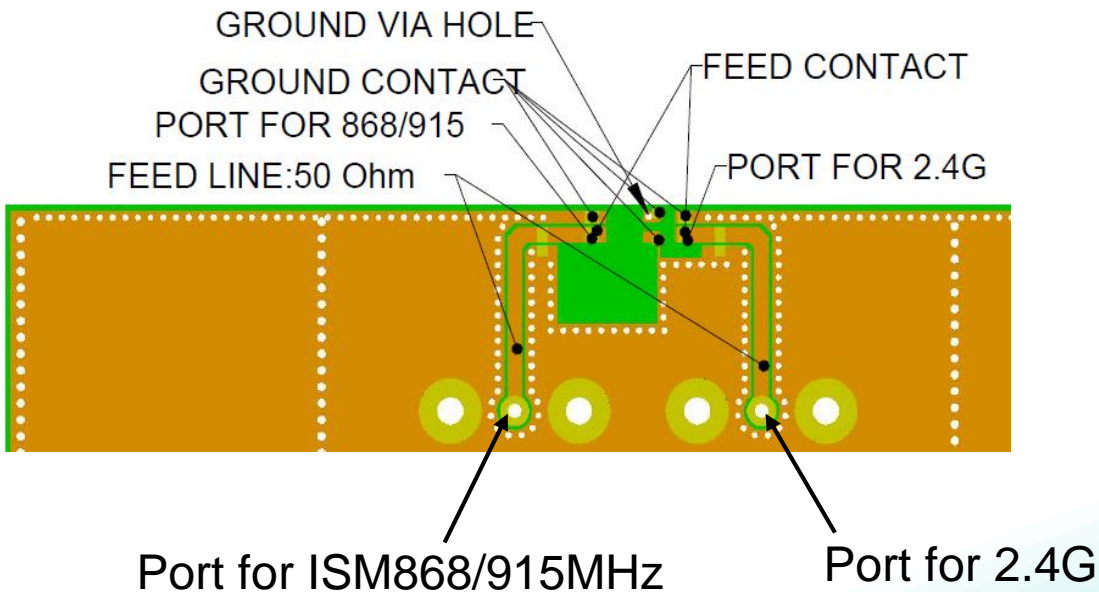
OTHER SPECIFICATIONS

PCB LAYOUT

3, Clearance area (Bottom)



4, PCB Features



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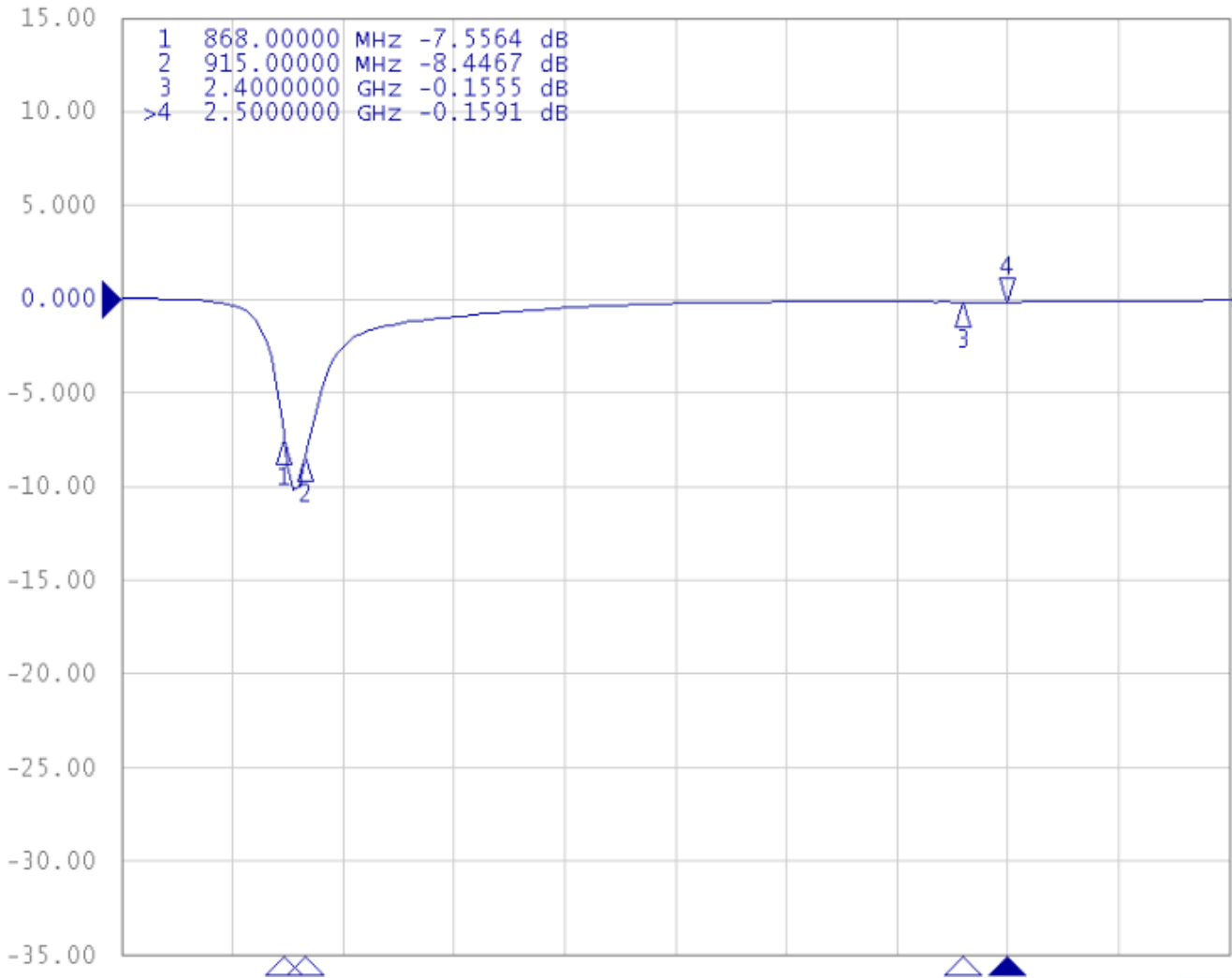
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CHARTS

Return Loss

ISM868/915MHz

Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 Smo]



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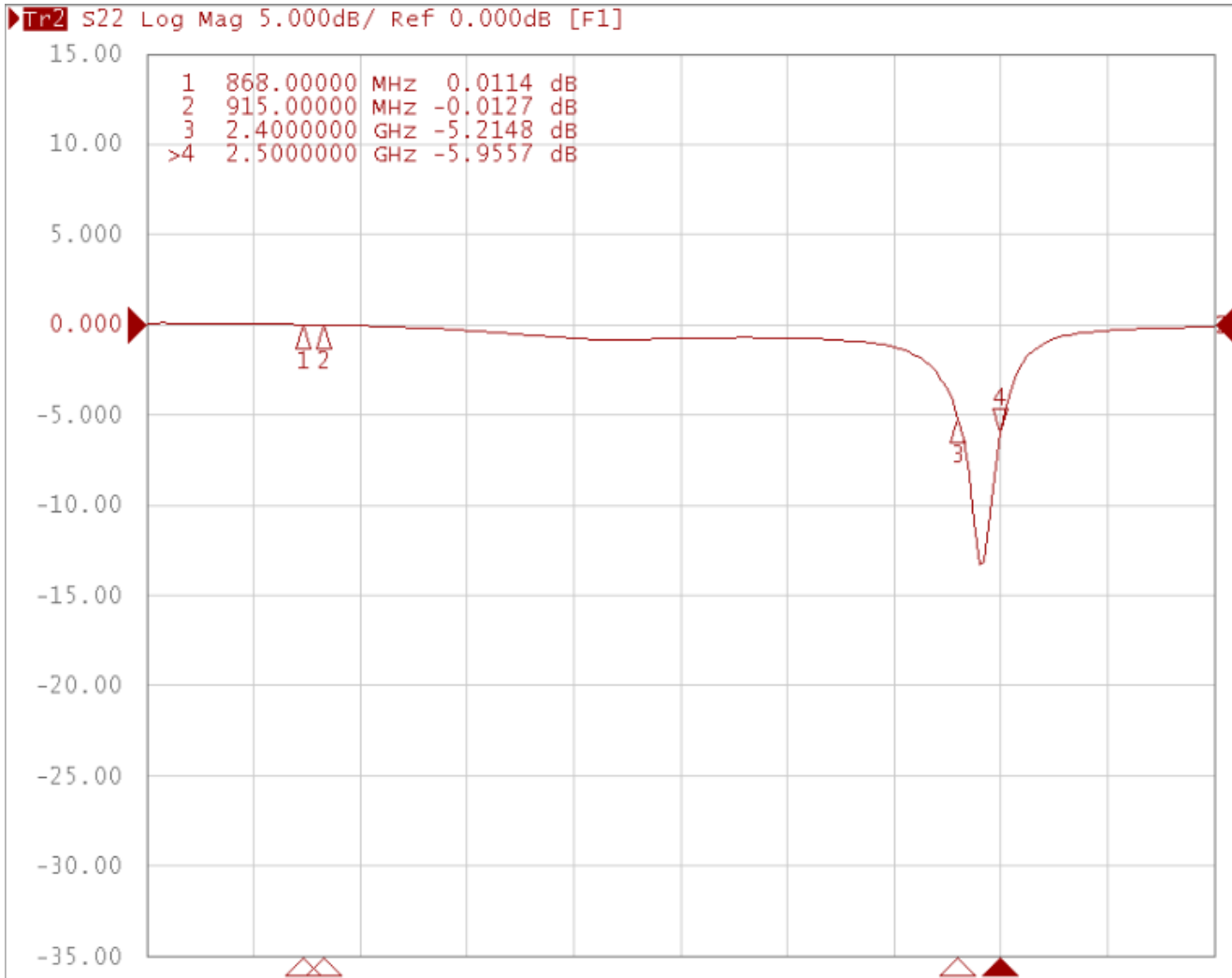
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CHARTS

Return Loss

ISM2.4G



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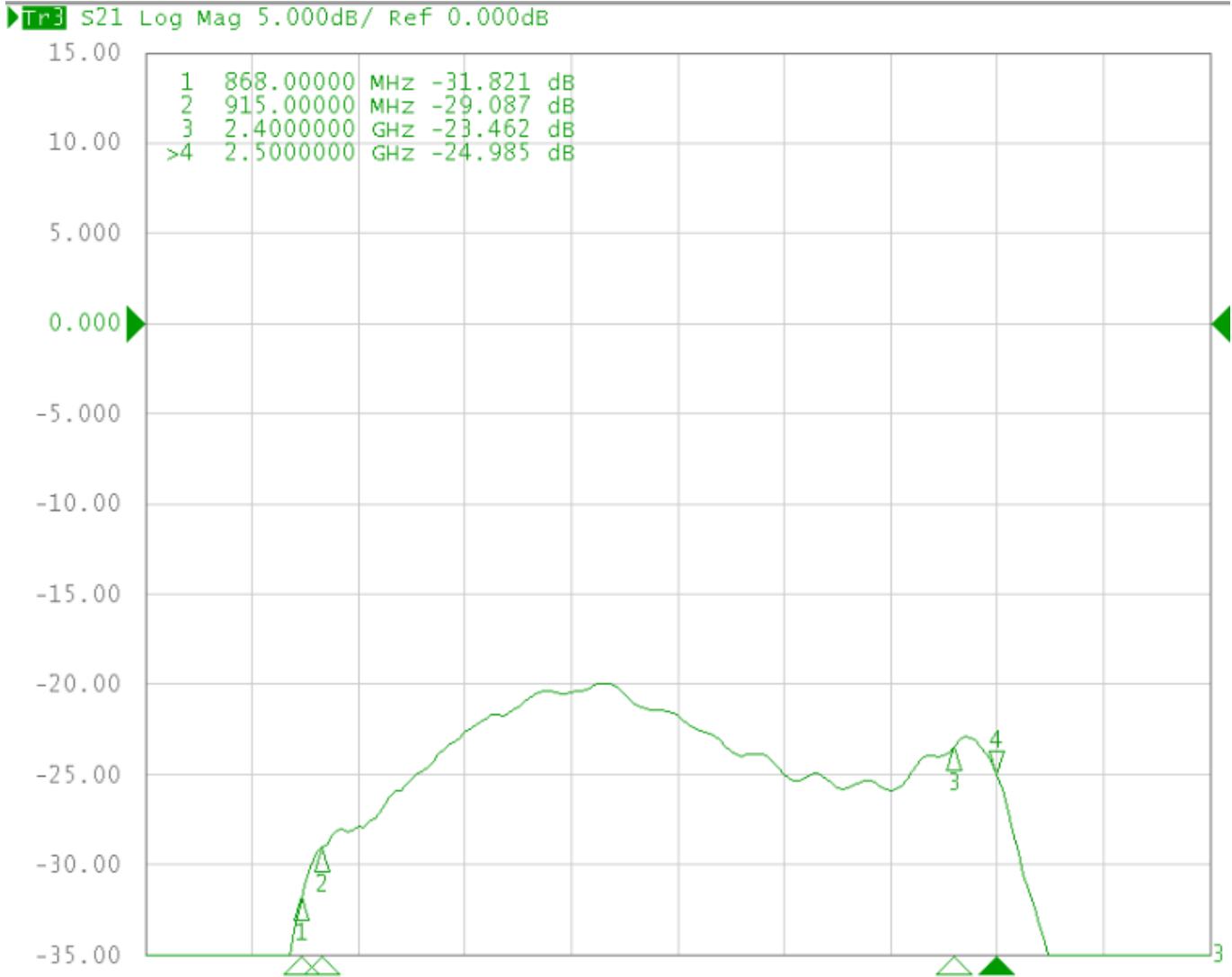
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CHARTS

Isolation



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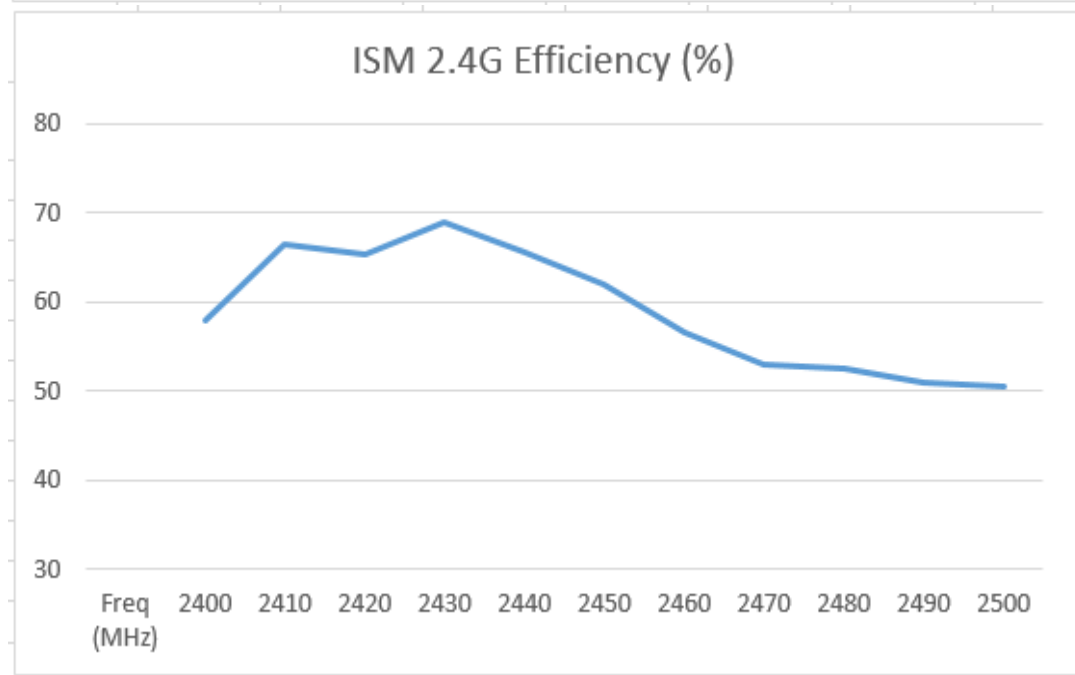
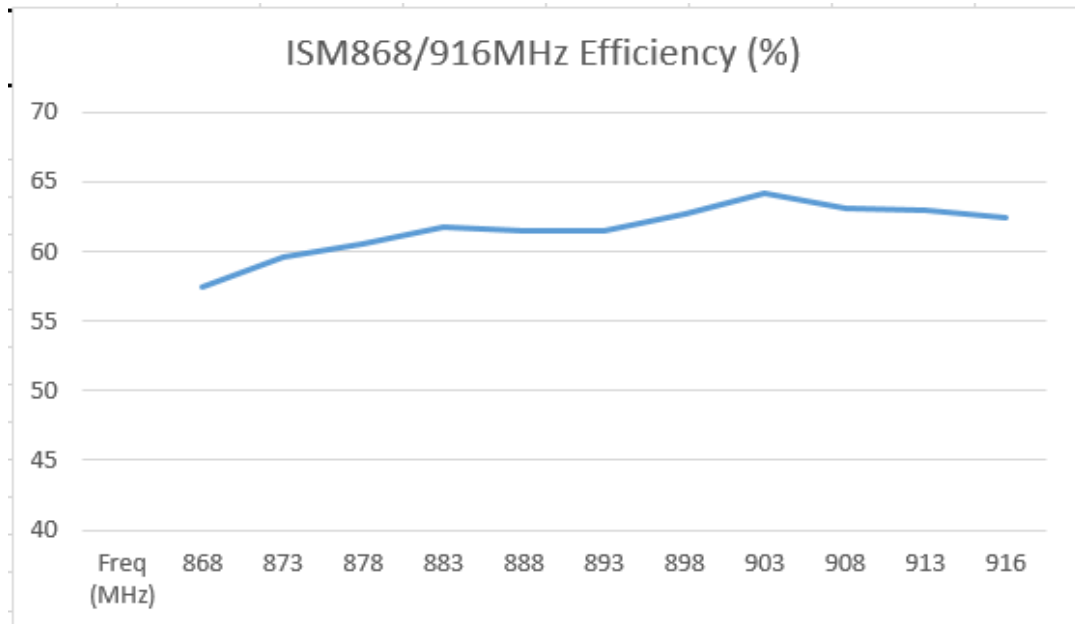
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CHARTS

Efficiency(%)



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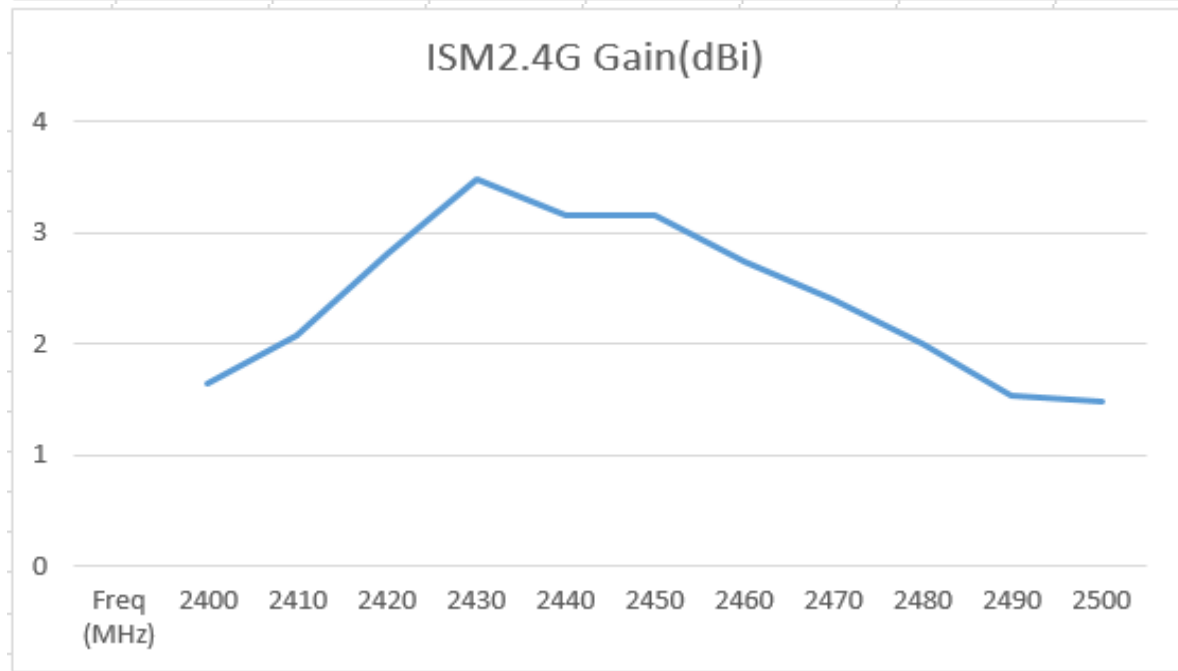
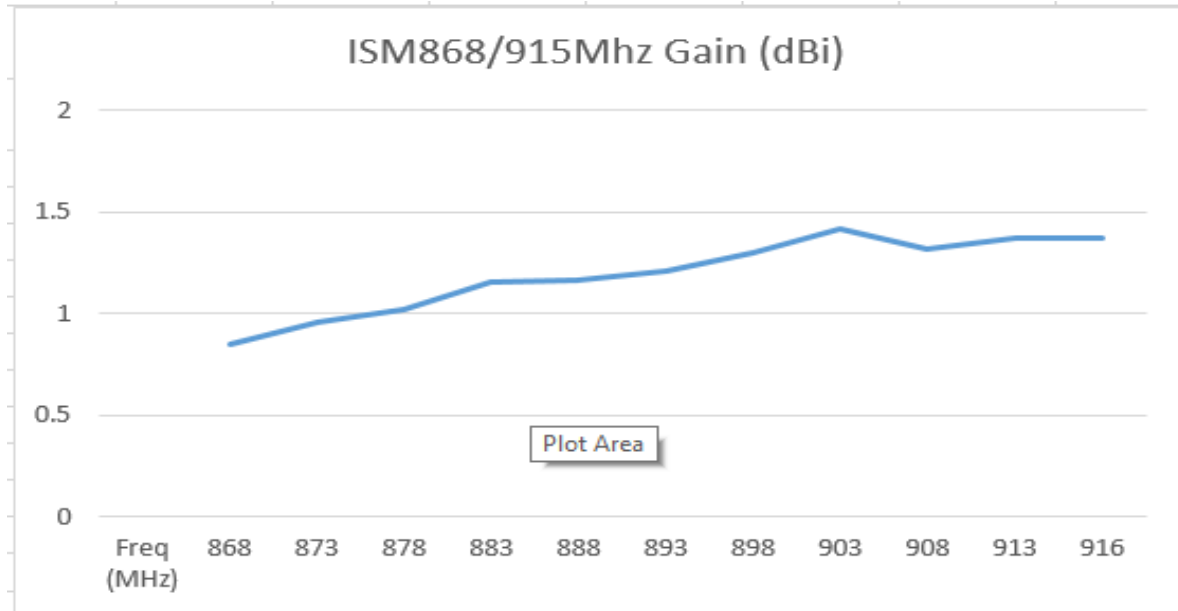
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**CHARTS**

Gain ( dBi )



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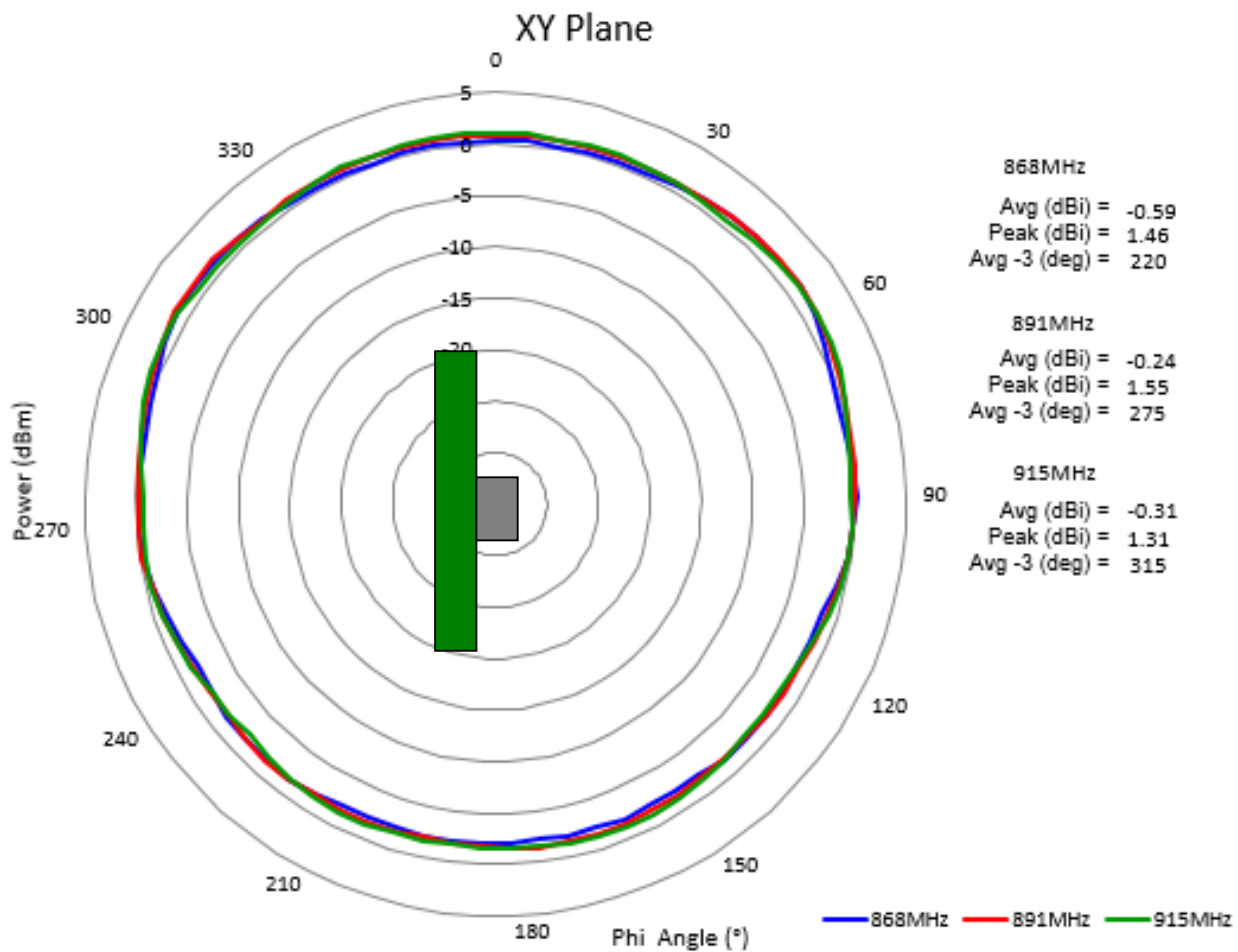
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CHARTS

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



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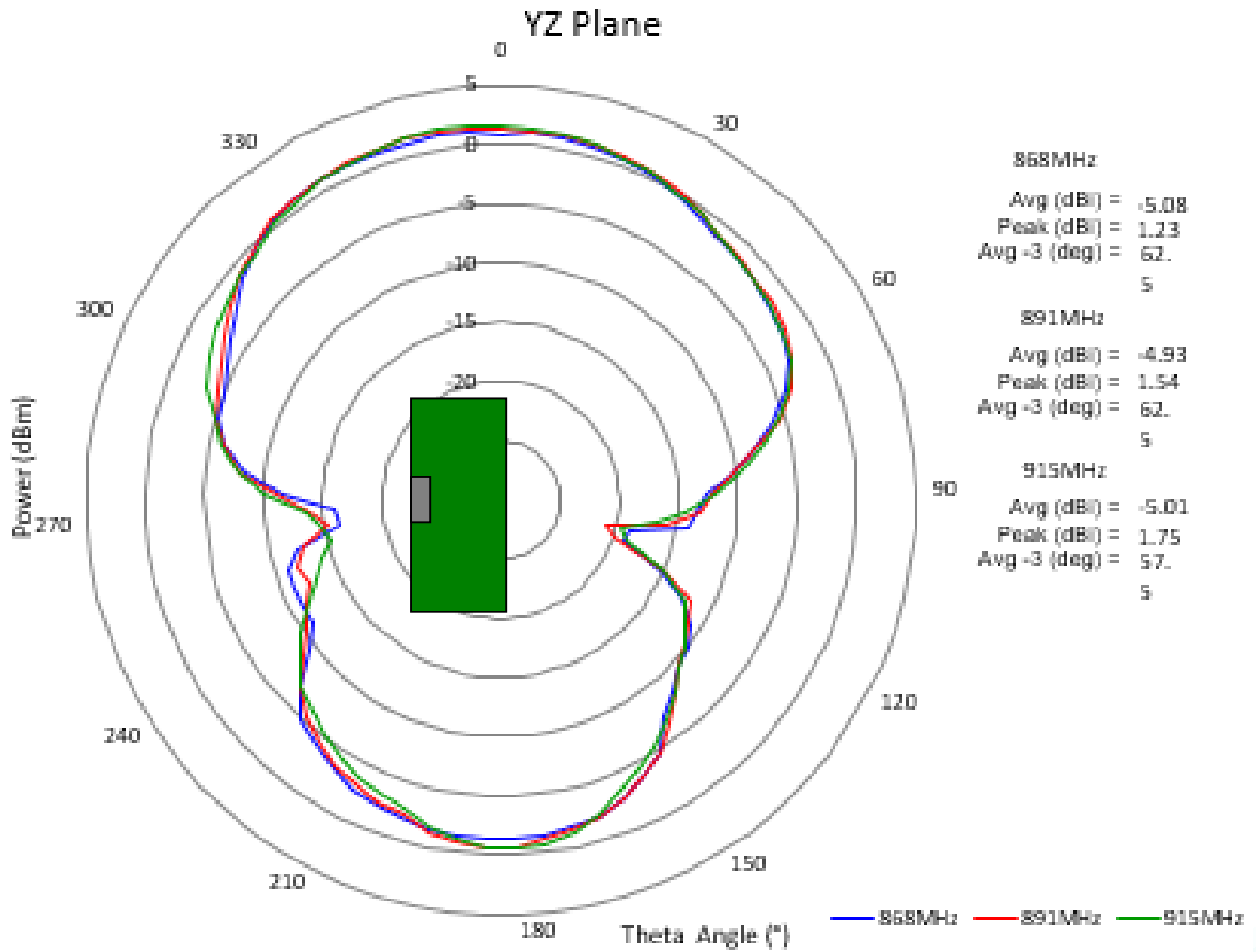
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CHARTS

ISM868/915MHz  
Y-Z plane



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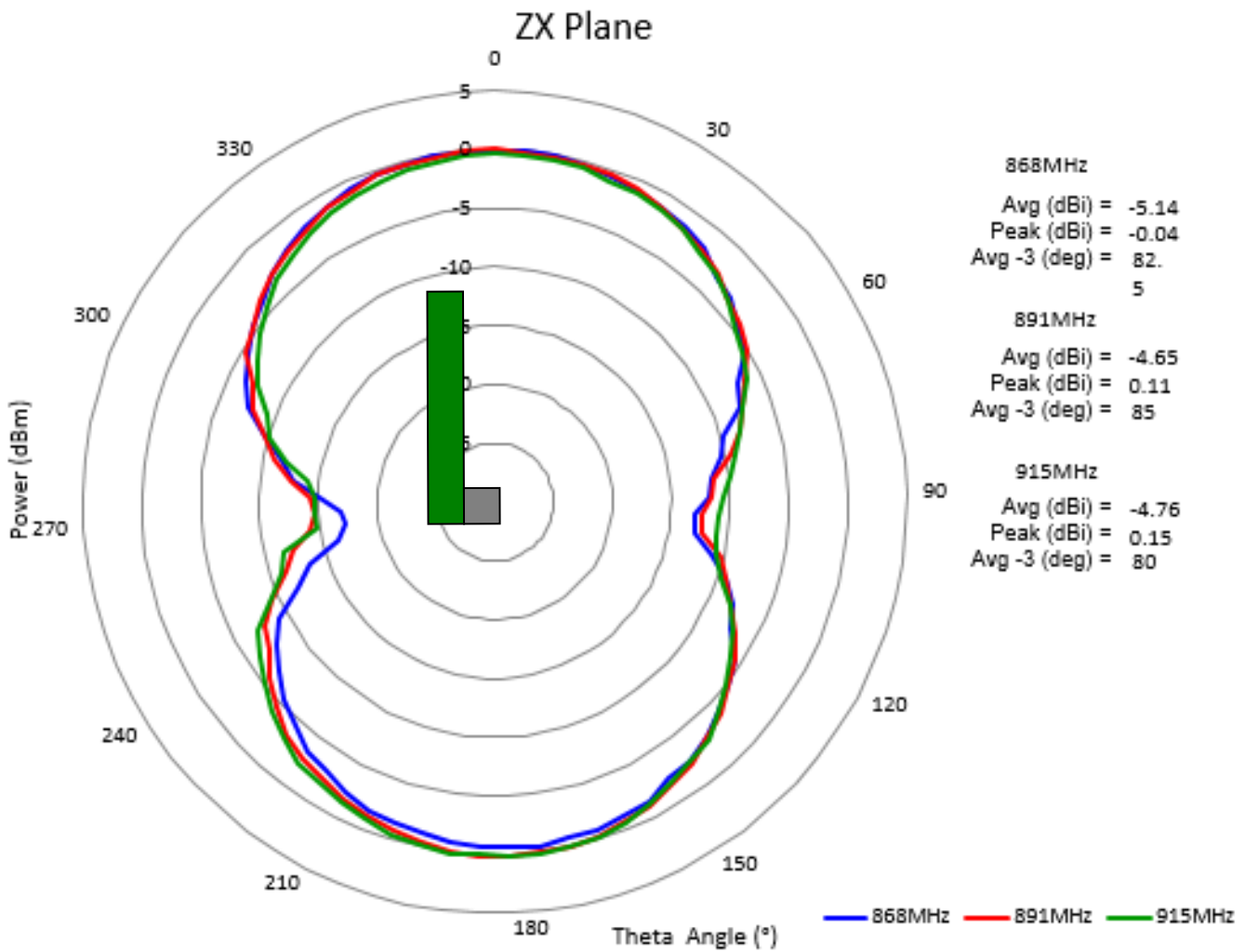
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CHARTS

ISM868/915MHz  
X-Z plane



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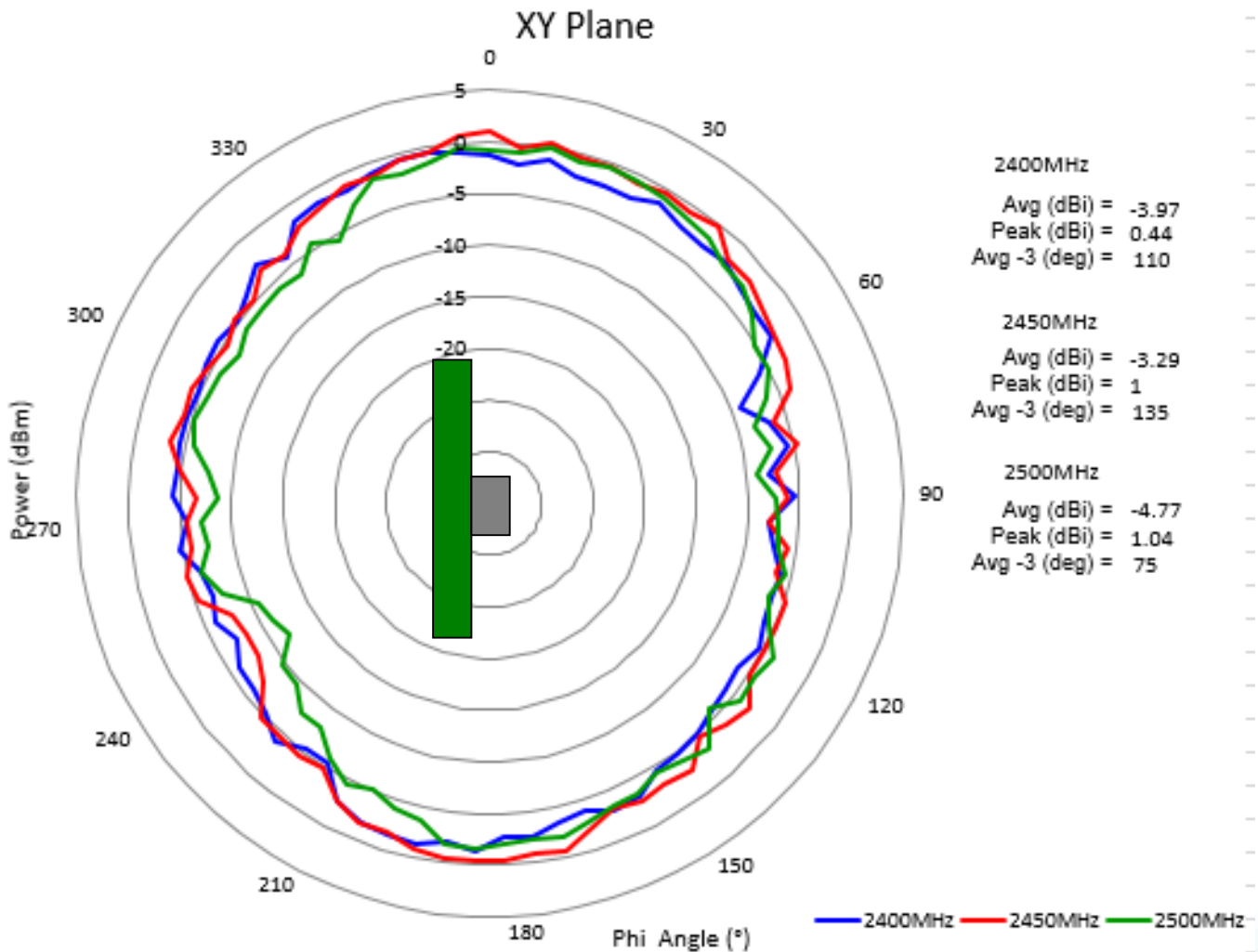
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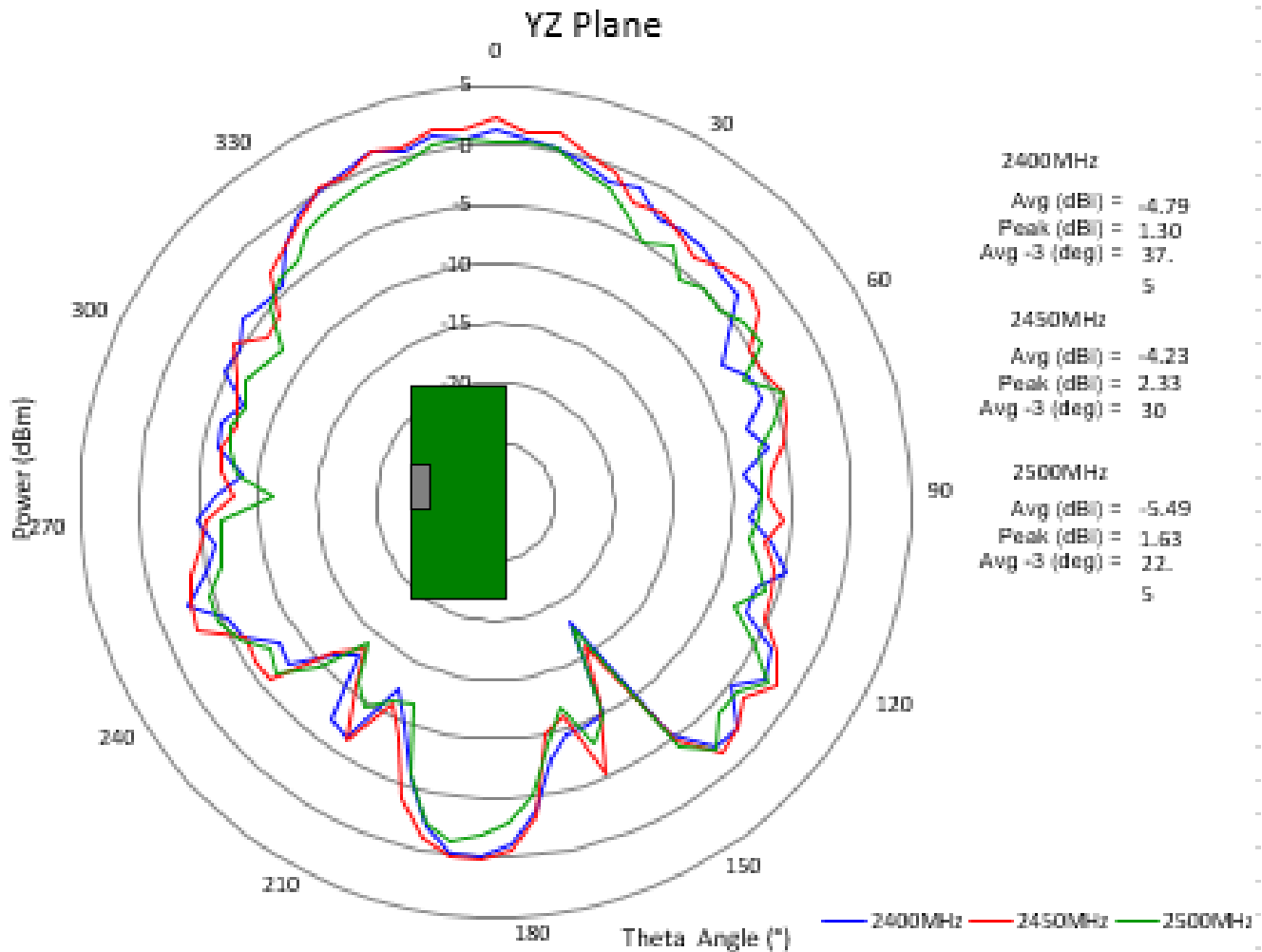
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ISM 2.4GHz  
Y-Z Plane



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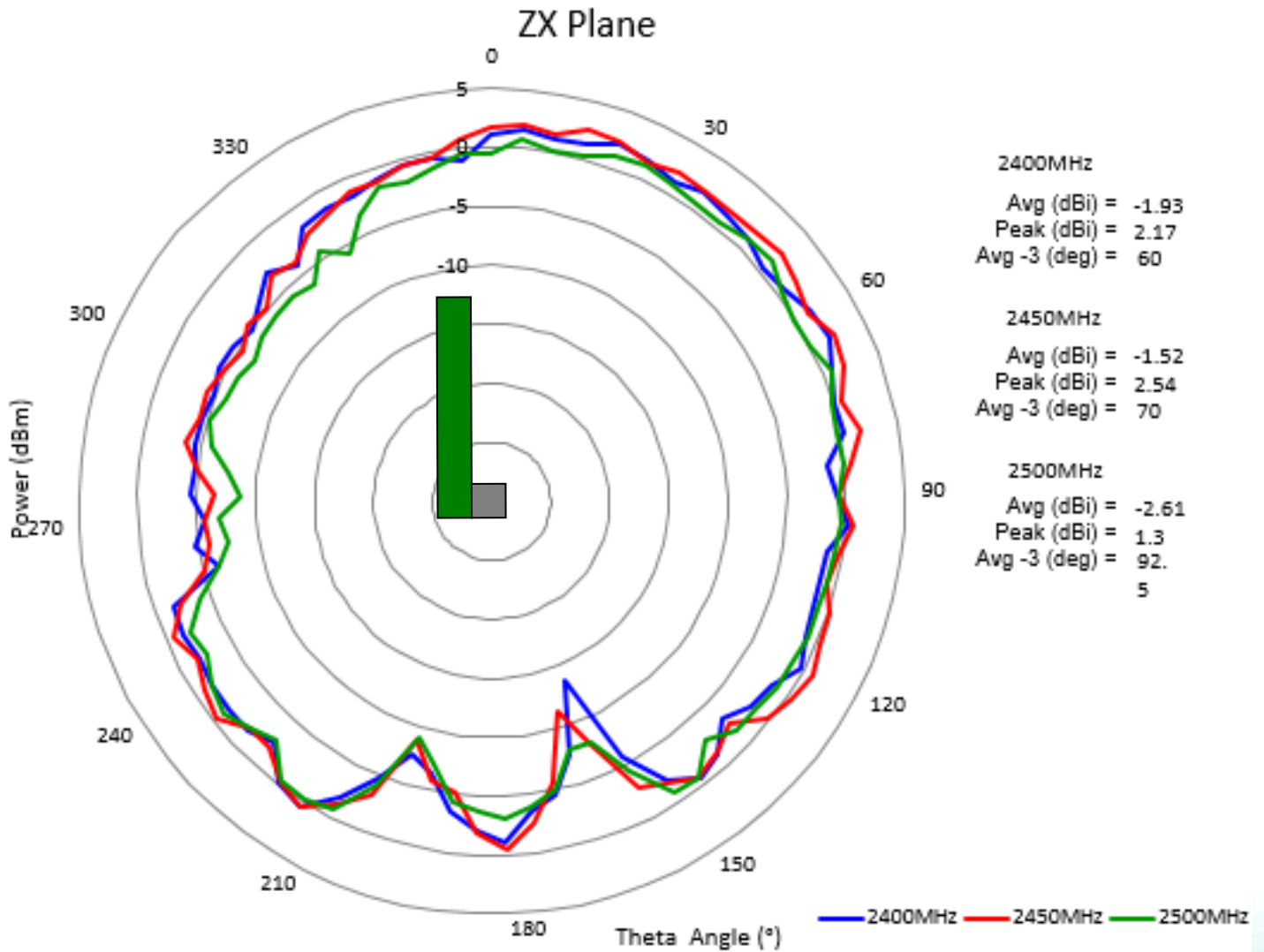
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## PACKAGING

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



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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.