

**Description:** ISM868/915MHz, 2.4GHz Ant

**Series:** PCB Embedded

**PART NUMBER:** W3333

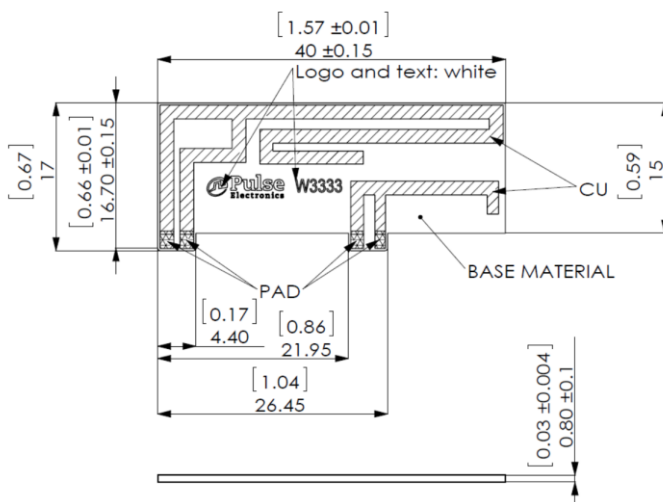


## Features:

- Small clearance needed (about 4mm)
- Test PCB size 118.5\*102mm
- High efficiency
- Small compact form factor
- Low profile
- Multi-band (ISM and 2.4 GHz)
- Board Mountable
- 2 connection points
- Lead free materials
- RoHS Compliant Product

## Applications:

- Data transmission for IoT applications
- High speed data terminals
- Routers using ISM frequencies
- ISM and WiFi dual applications
- Hot Spots
- Radio modules
- WiFi / BLE / Zigbee



All dimensions are in mm / inches

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For more information:

Pulse Worldwide Headquarters  
12220 World Trade Drive  
San Diego, CA 92128  
USA  
Tel: 1-858-674-8100

Pulse/Larsen Antennas  
3611 NE 112<sup>th</sup> Ave  
Vancouver, WA 98682  
USA  
Tel: 1-360-944-7551

Europe Headquarters  
Pulse GmbH & Co, KG  
Zeppelinstrasse 15  
Herrenberg, Germany  
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg, 4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



**Description:** ISM868/915MHz, 2.4GHz Ant**Series:** PCB Embedded**PART NUMBER:** W3333**ELECTRICAL SPECIFICATIONS**

Frequency port1	863-928MHz
Frequency port2	2400-2500MHz
Nominal Impedance	50Ω
Return Loss	-8dB max@ISM868/915MHz -12dB max@ISM2.4GHz
Isolation port1&port2	-15dB
Average efficiency	75%@ISM868/915MHz 75%@ISM2.4GHz
Gain	2.5 +/- 1dBi@ISM868/915MHz 4+/- 1dBi@ISM2.4GHz
Radiation Pattern	Omni
Polarization:	linear
Power withstanding	3W

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### MECHANICAL SPECIFICATIONS

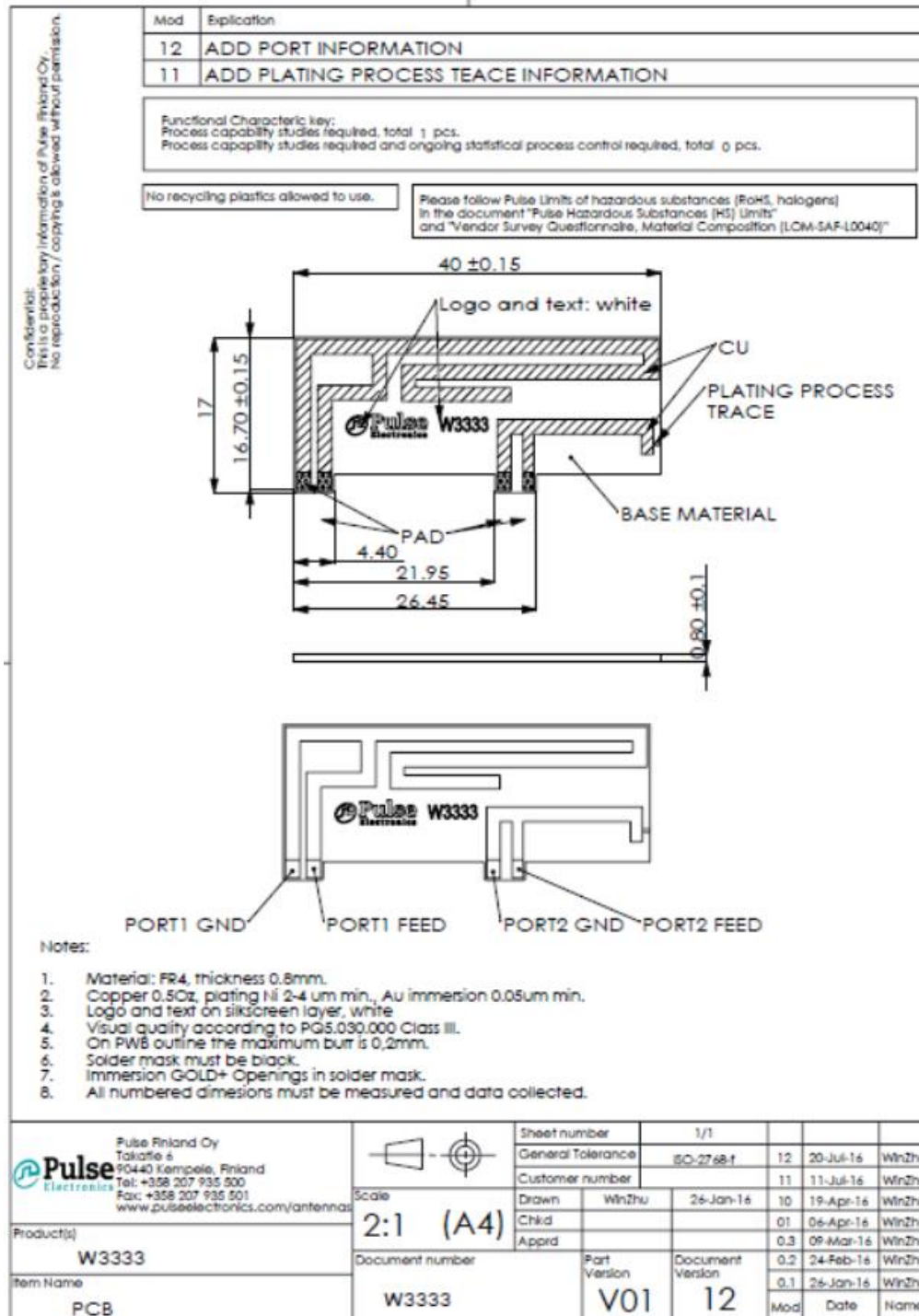
Material	FR4
Color	Black
Weight	1g
Overall Length	1.57 INCHES
Overall width	0.67 INCHES

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## MECHANICAL DRAWING



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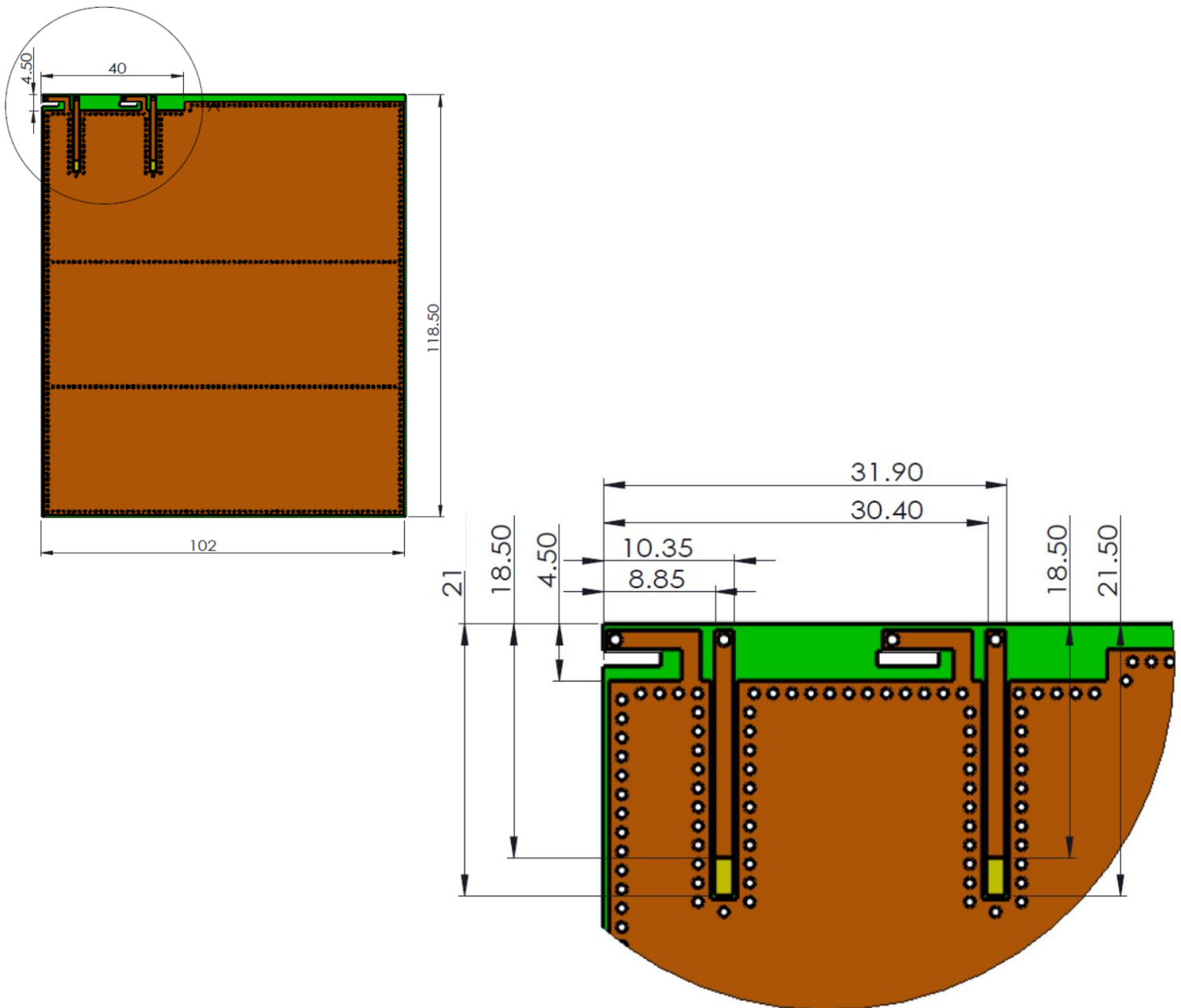
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## OTHER SPECIFICATIONS

### Recommended PCB layout(Unit:mm)



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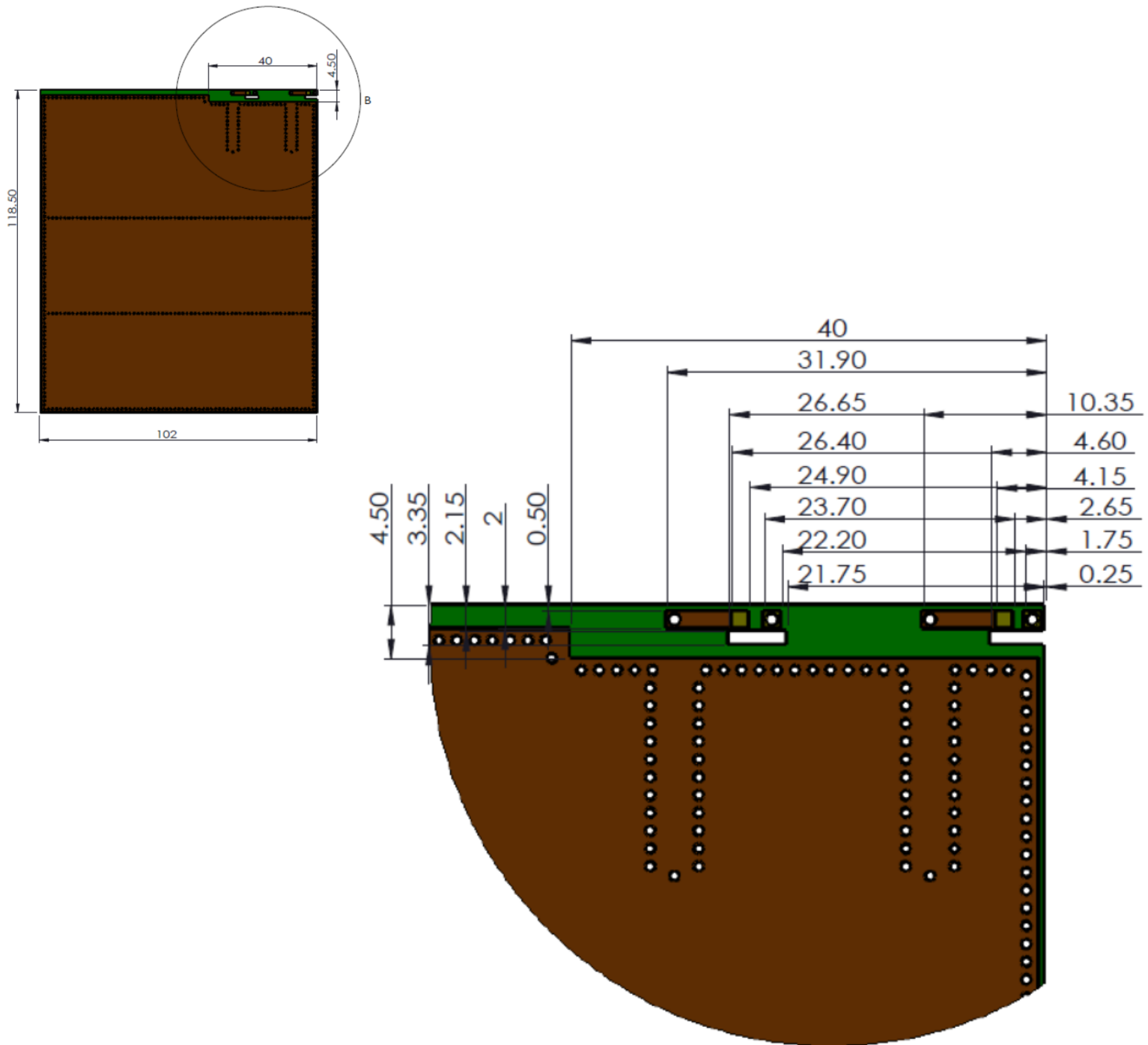
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## OTHER SPECIFICATIONS



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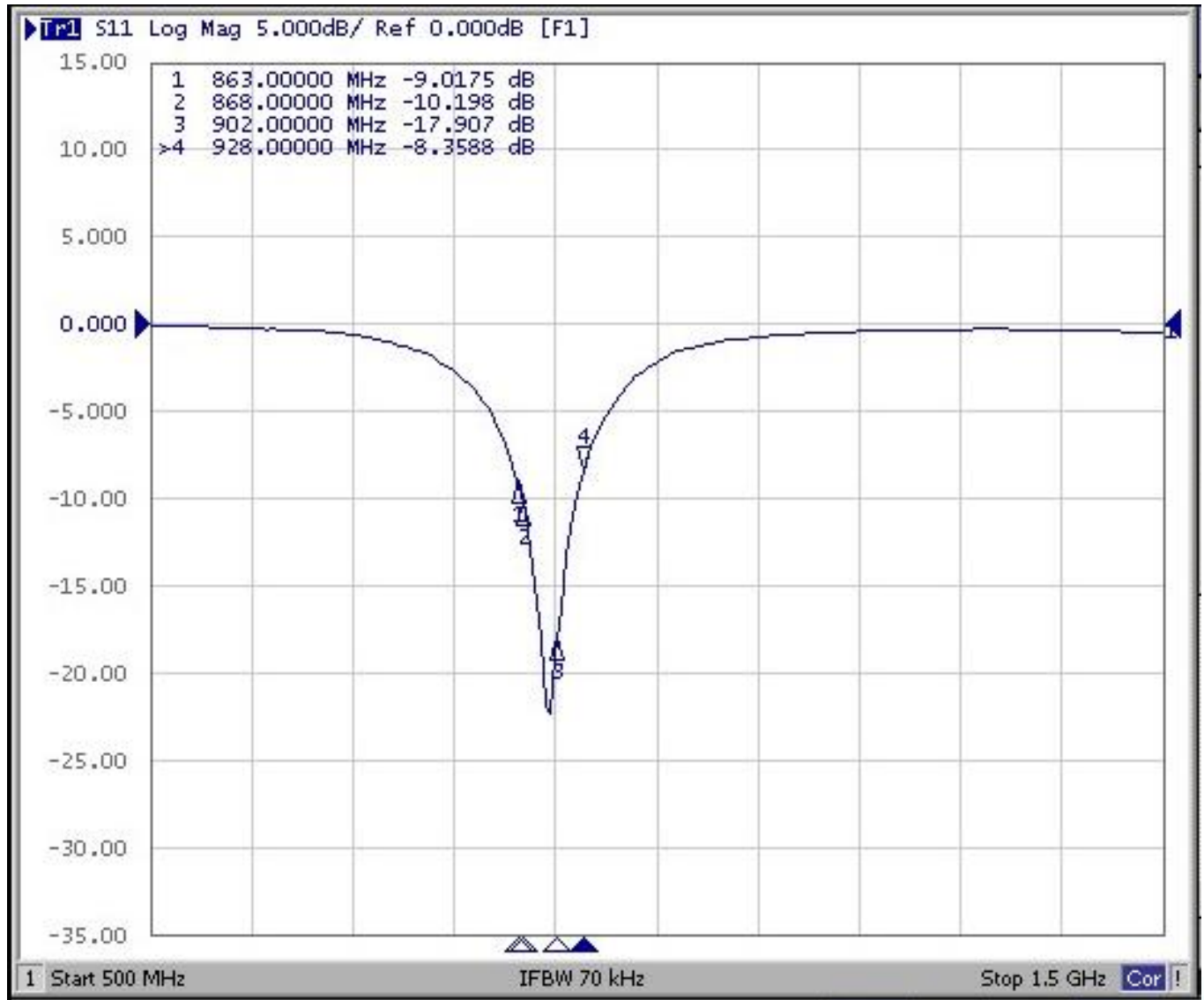
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## CHARTS

### ISM868/915MHz Band Return Loss



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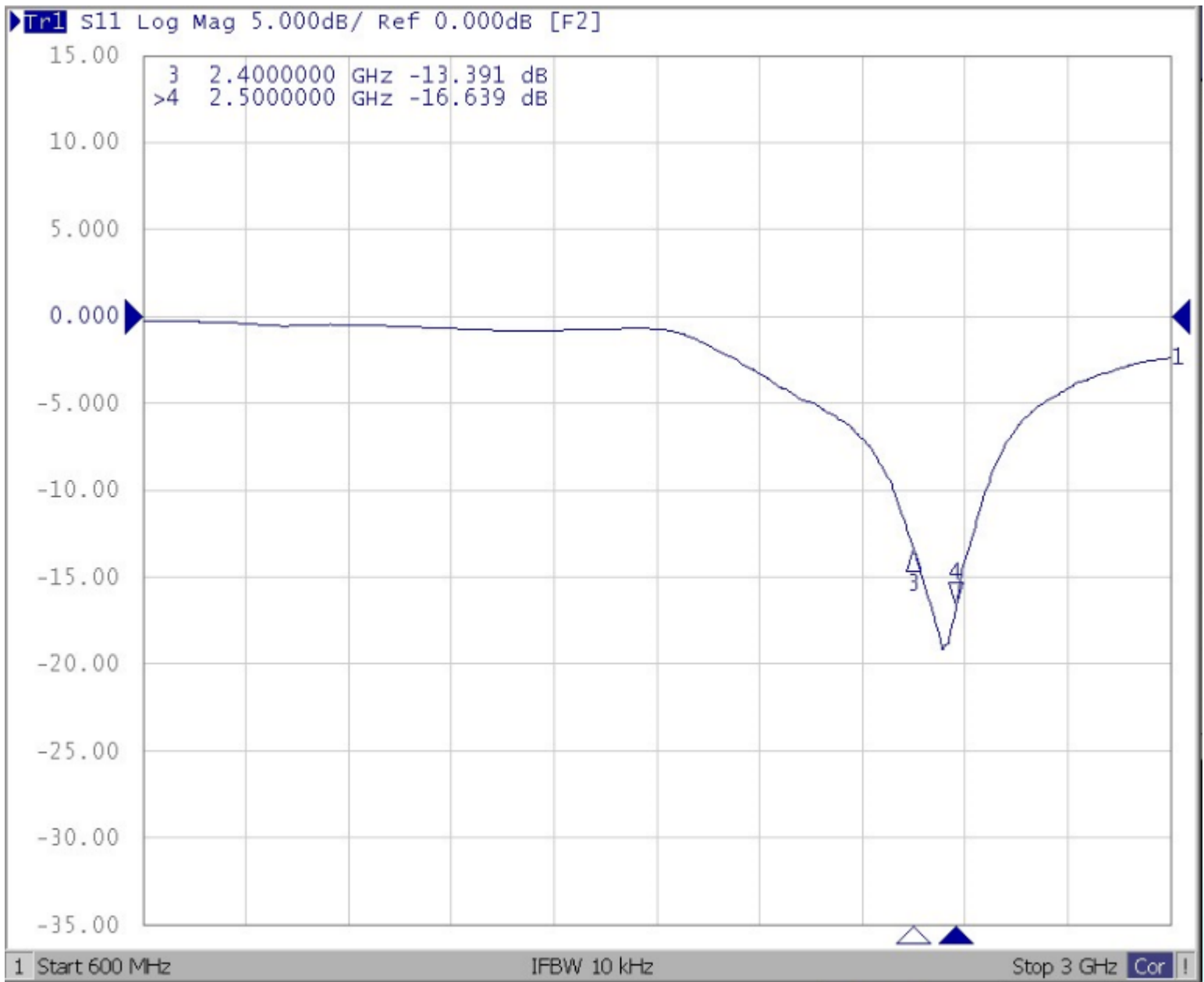
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## CHARTS

### ISM2.4GHz Return Loss



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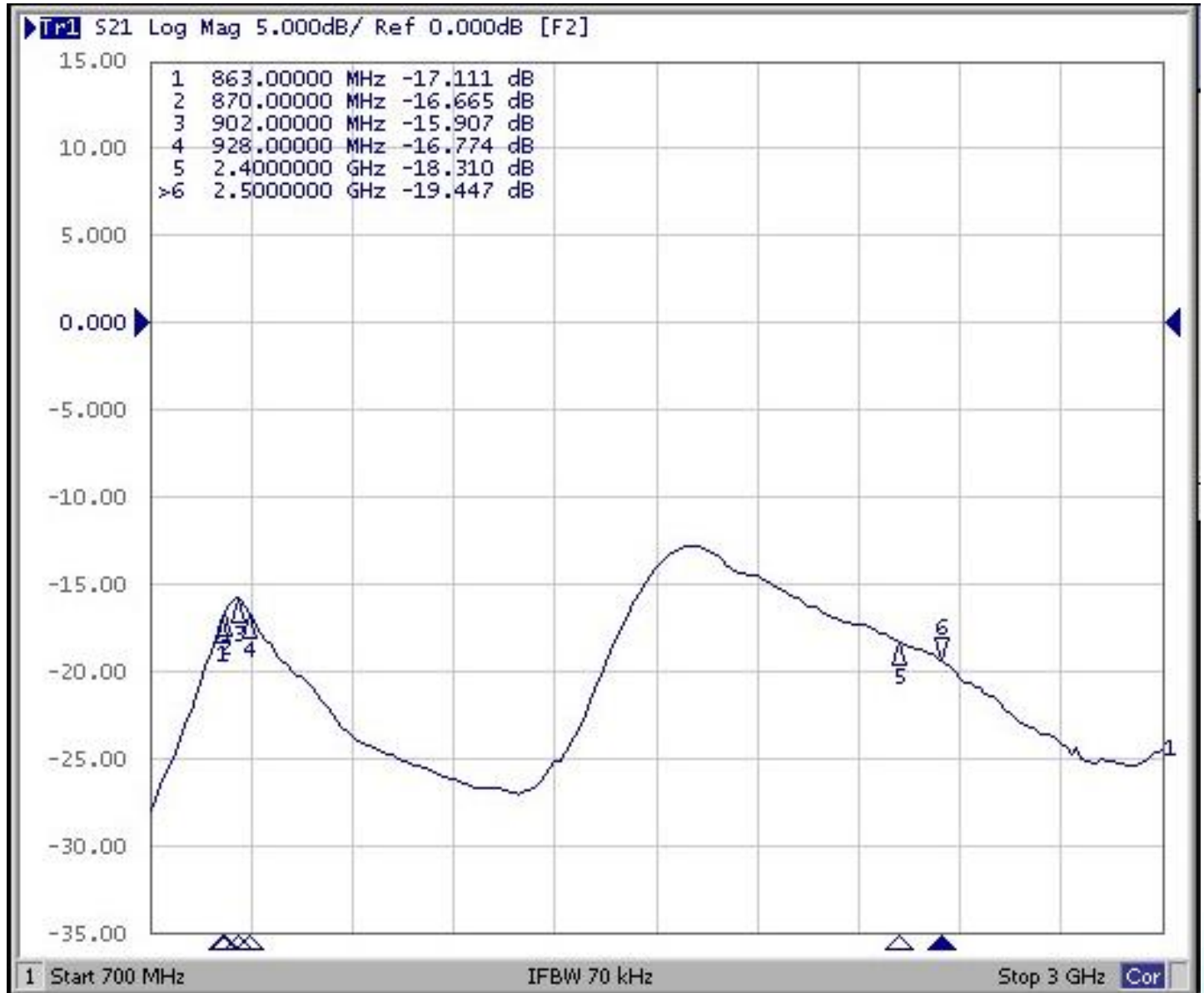
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## CHARTS

### Isolation



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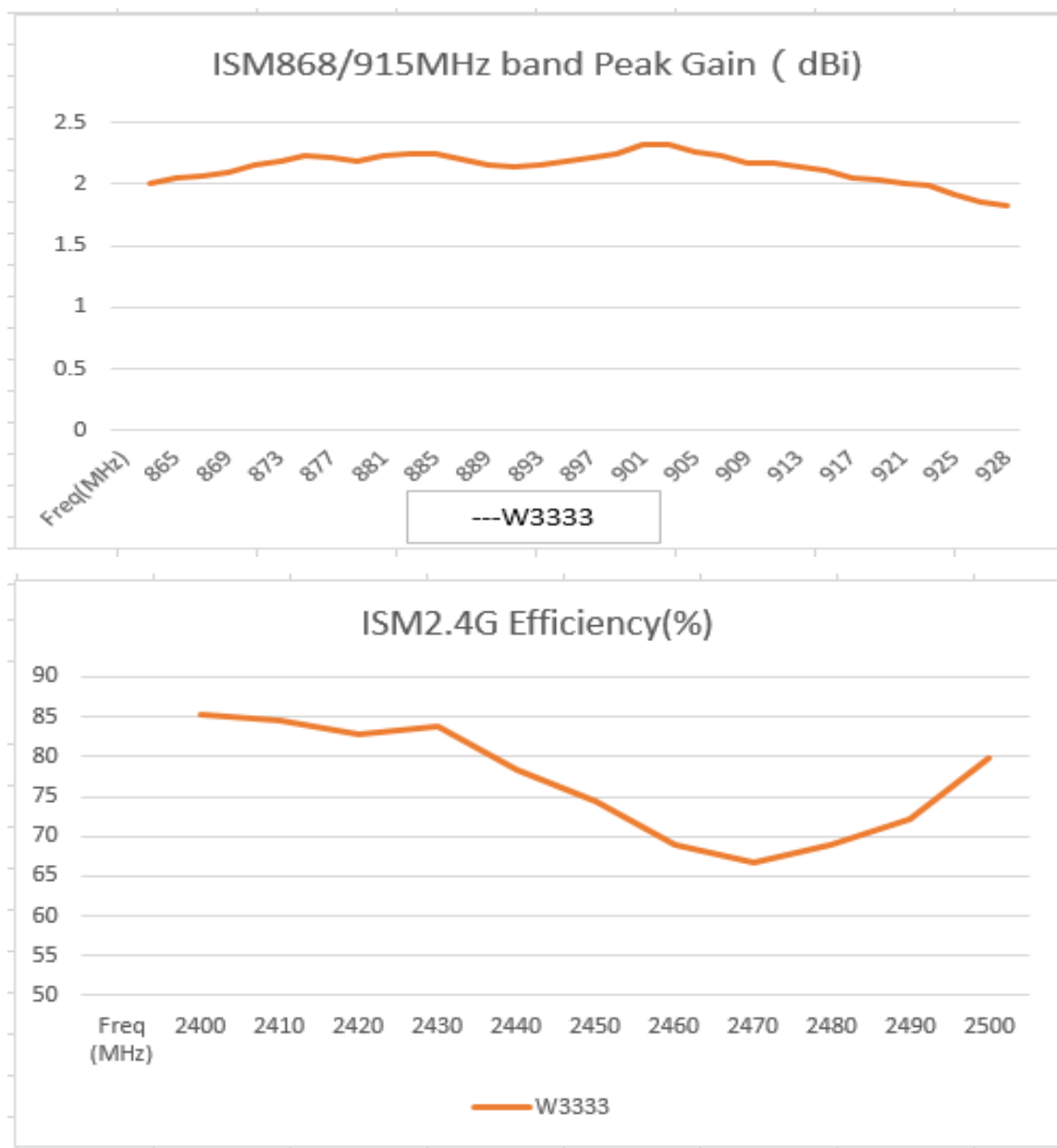
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## CHARTS

### Efficiency(%)



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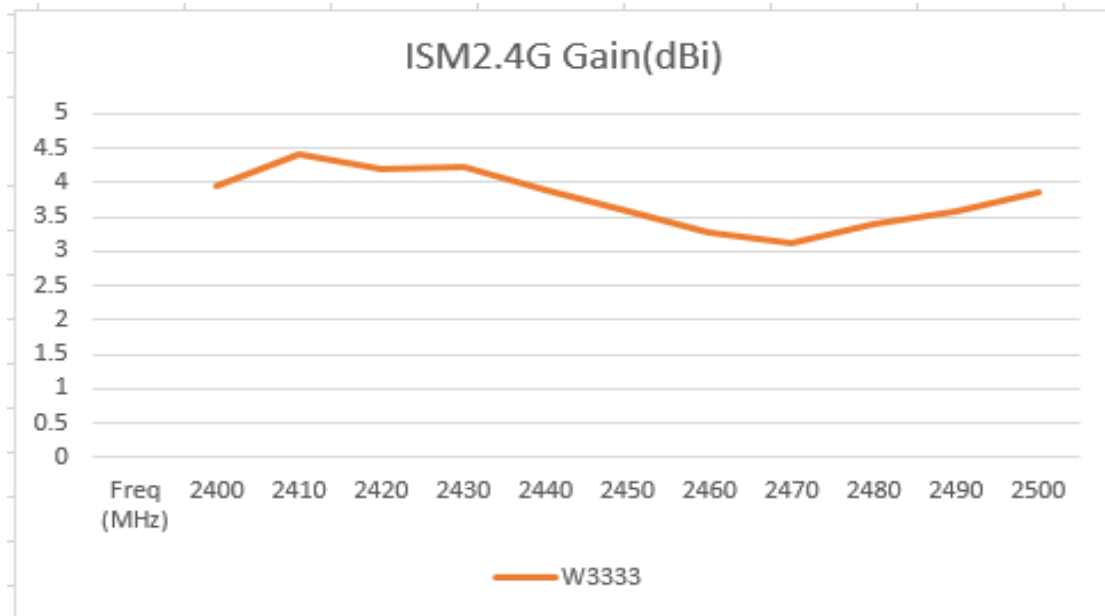
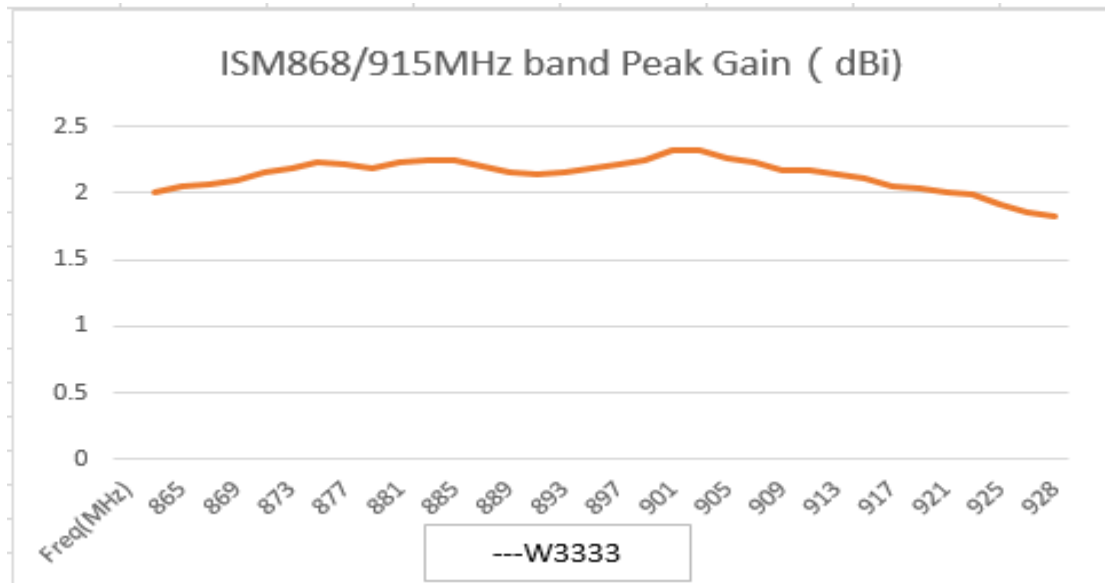
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## CHARTS

### Peak Gain(dBi)



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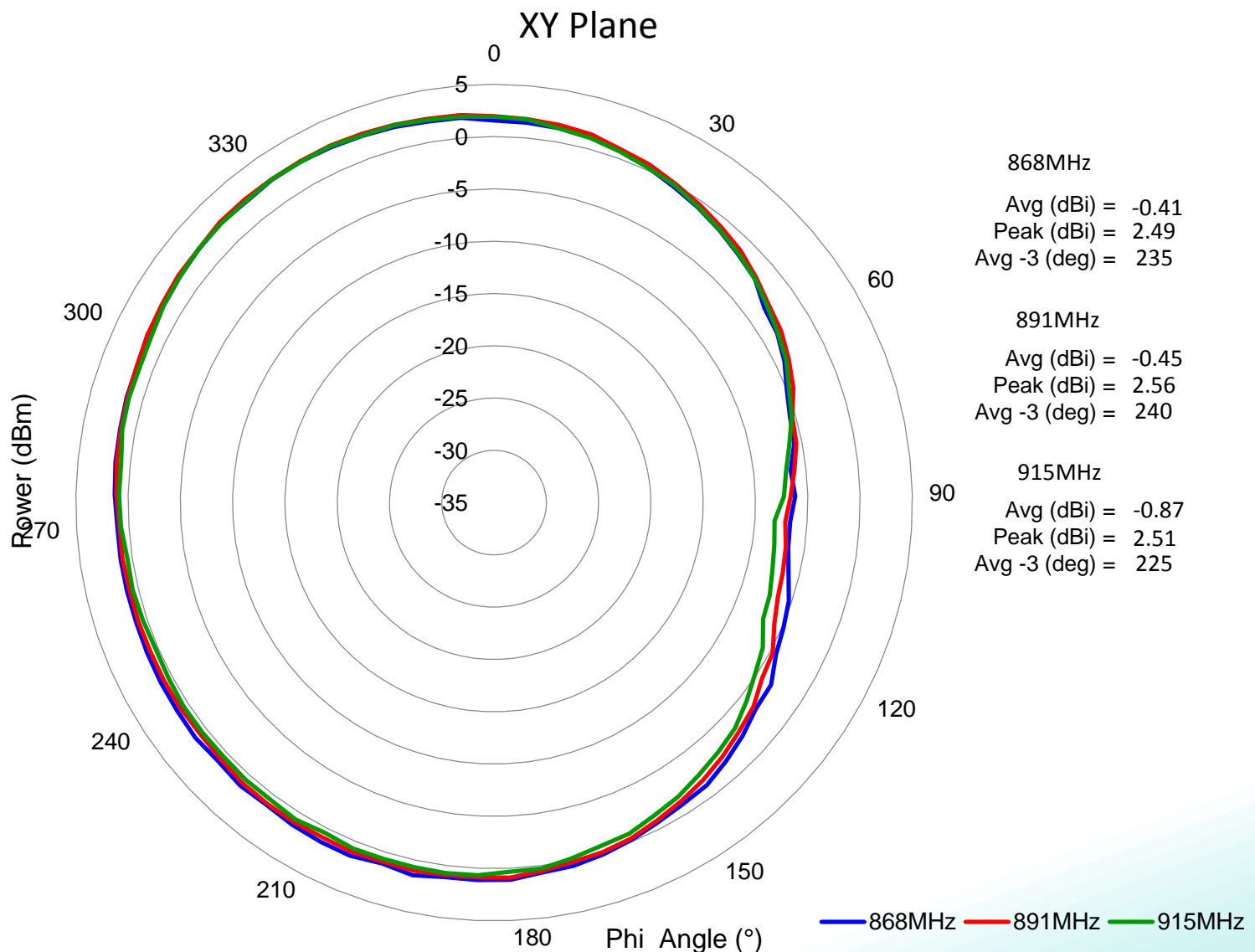
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## CHARTS

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



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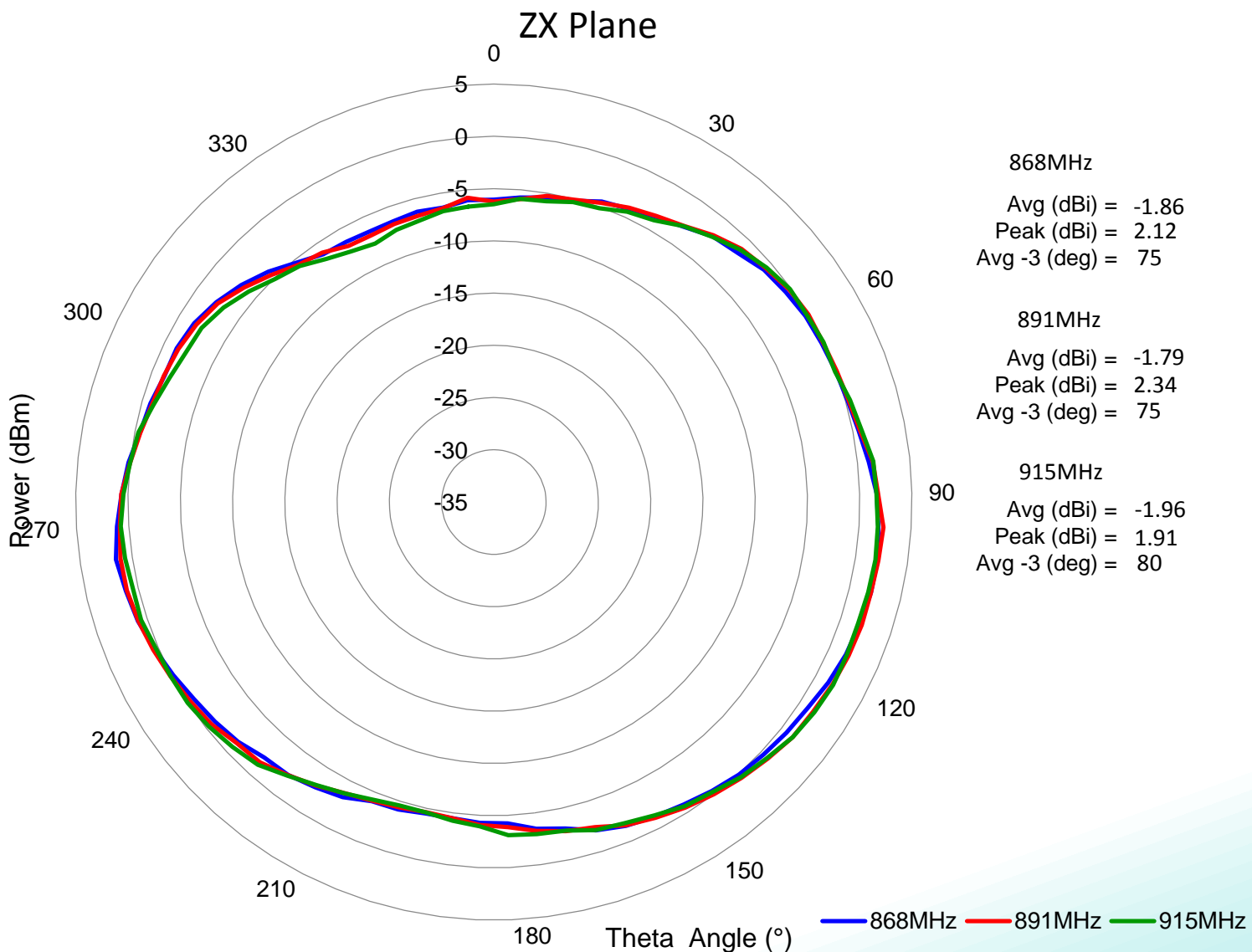
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## CHARTS

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



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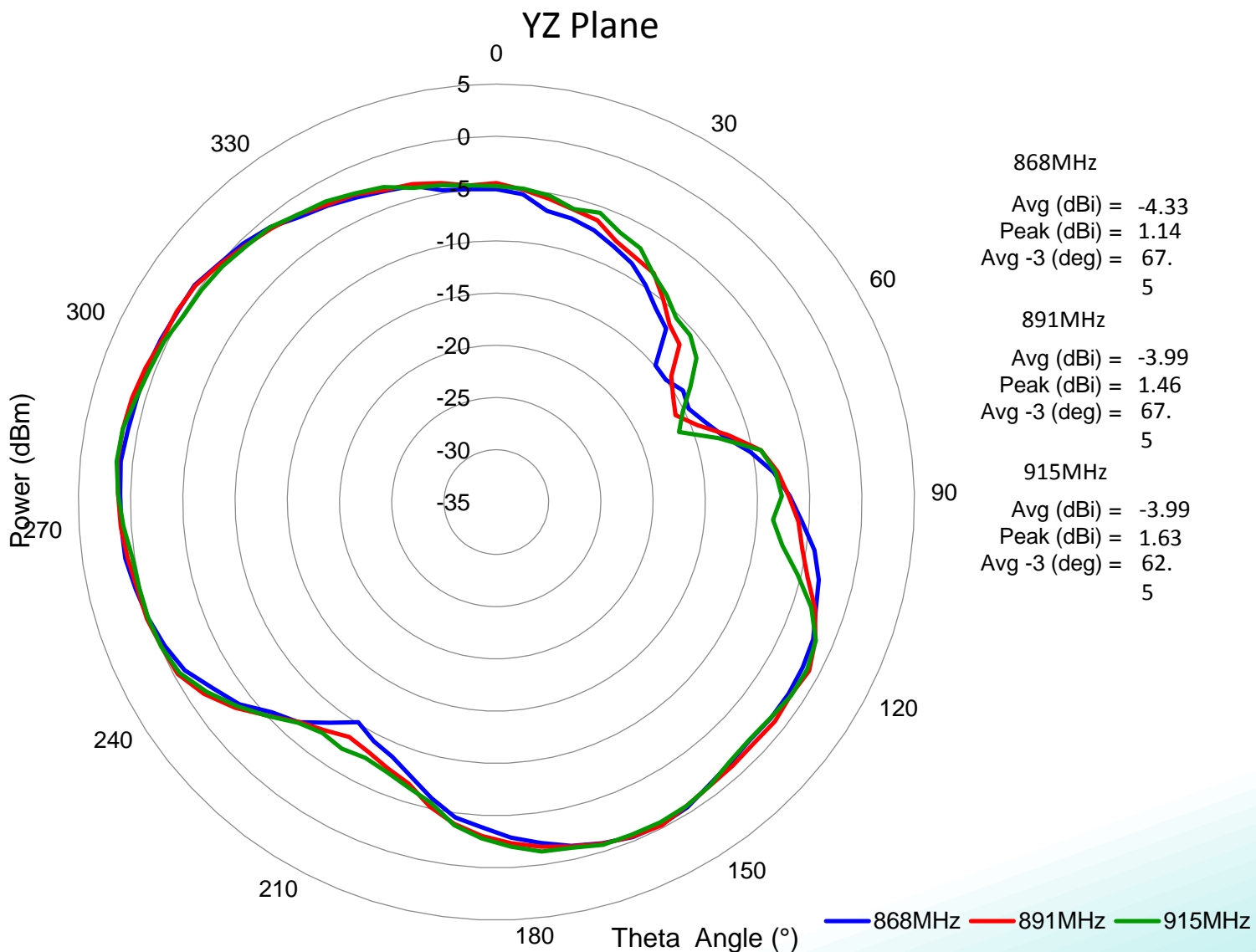
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## CHARTS

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



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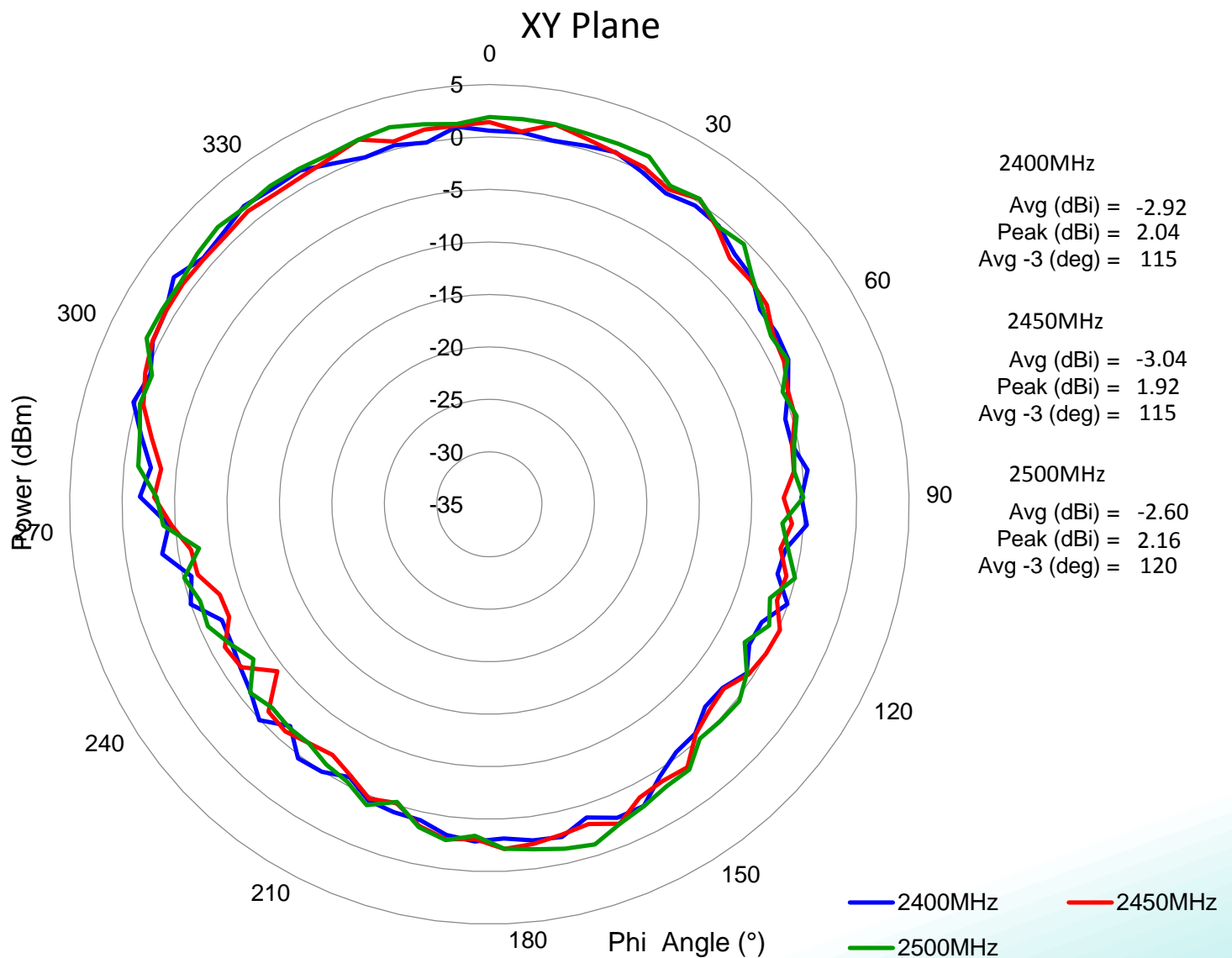
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## CHARTS

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



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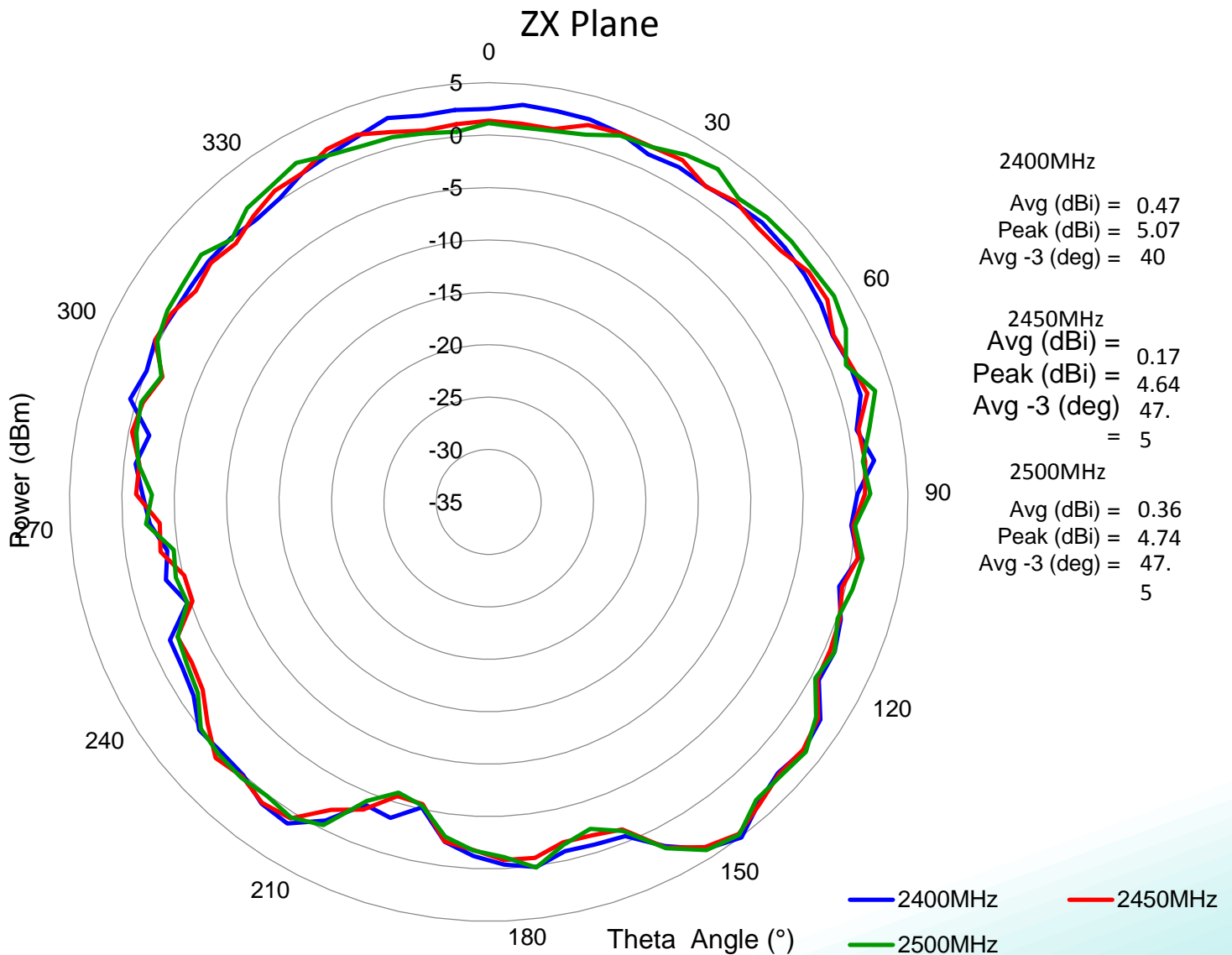
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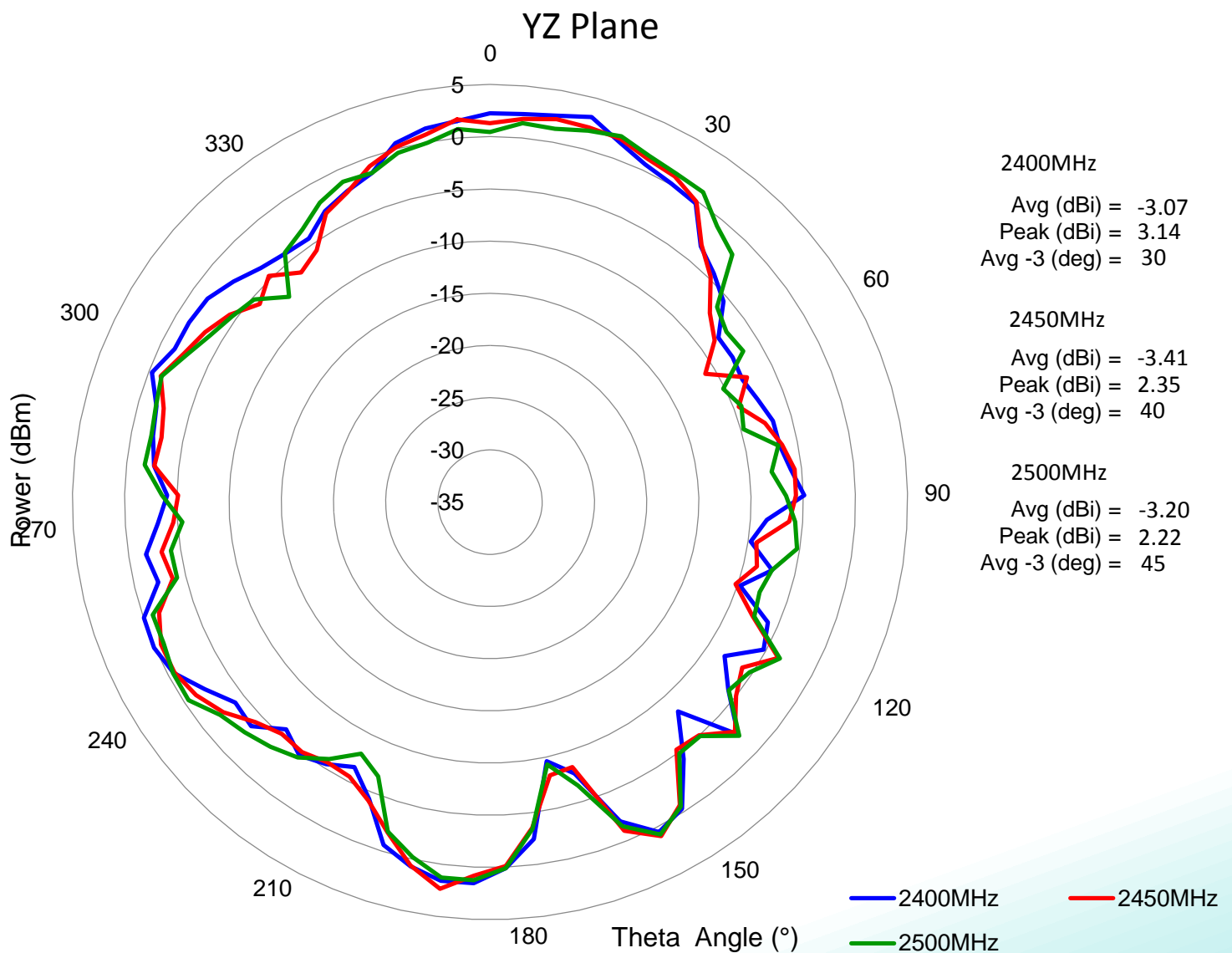
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## PACKAGING

10PCS/PE bag

1000PCS/box

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- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

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Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А