PulseLARSEN Antennas

TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

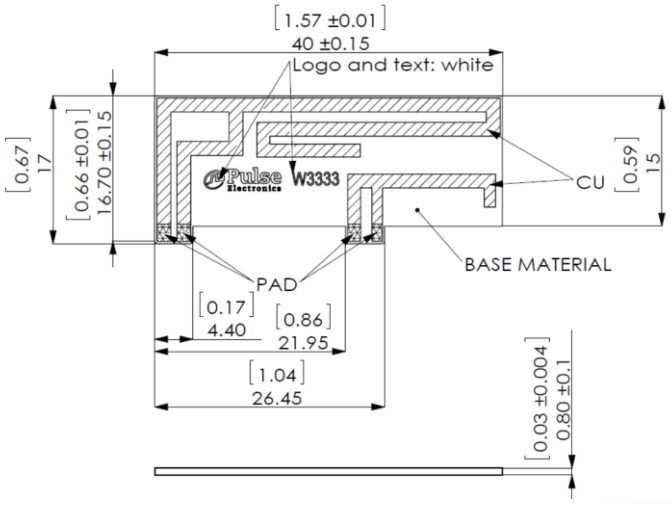
Series: PCB Embedded

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

Issue: 1615

RoHS COMPLIANT

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Tel: 86 512 6807 9998

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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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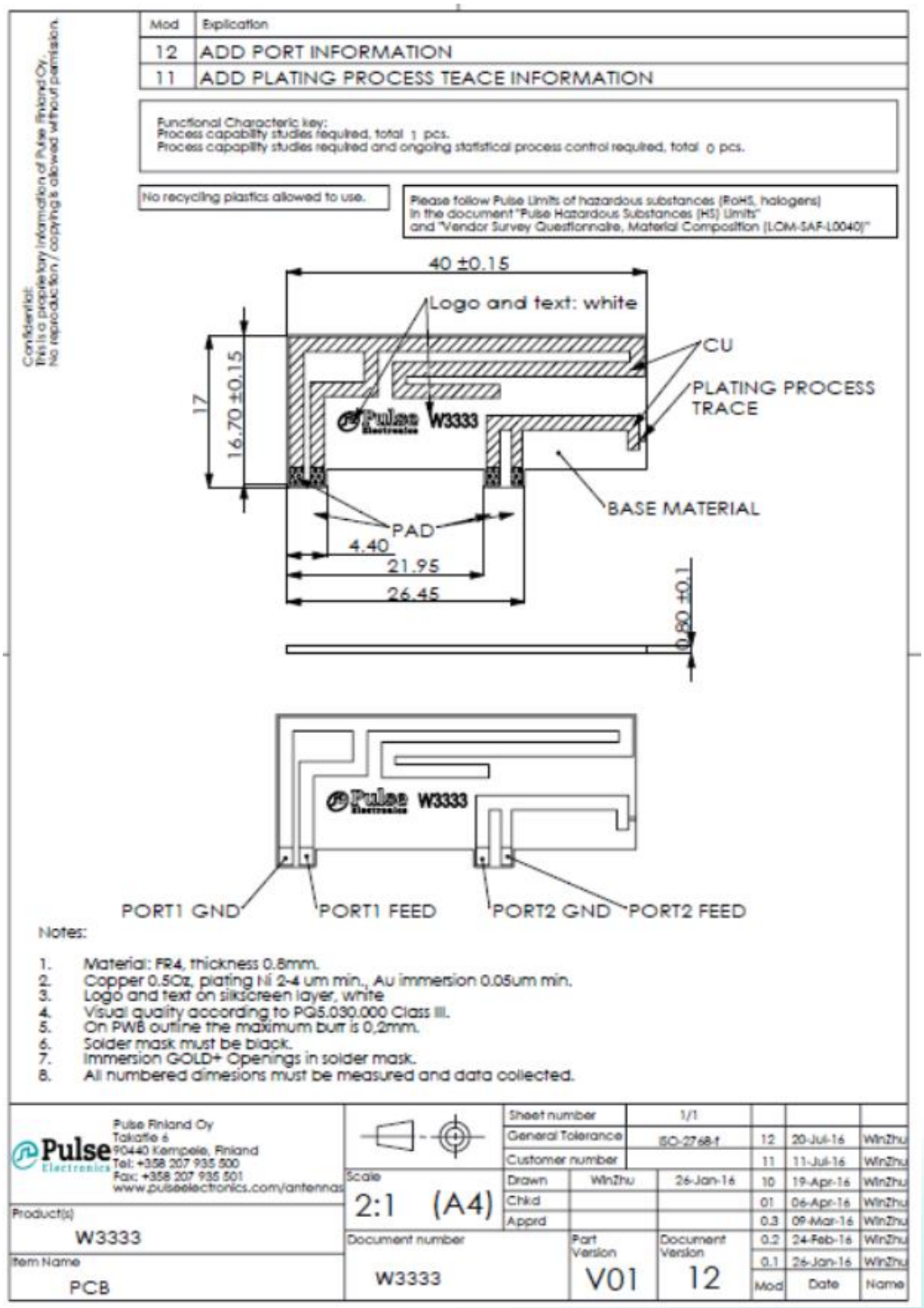
RoHS COMPLIANT

Description: ISM868/915MHz, 2.4GHz Ant

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MECHANICAL DRAWING



Issue: 1615

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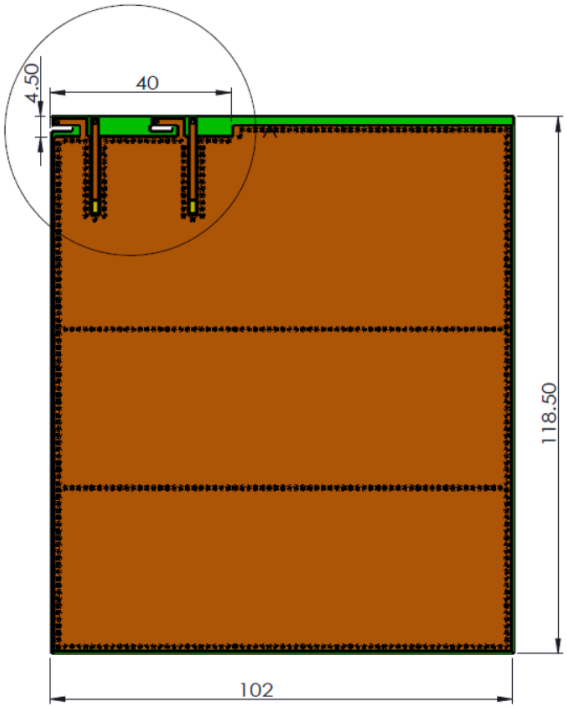
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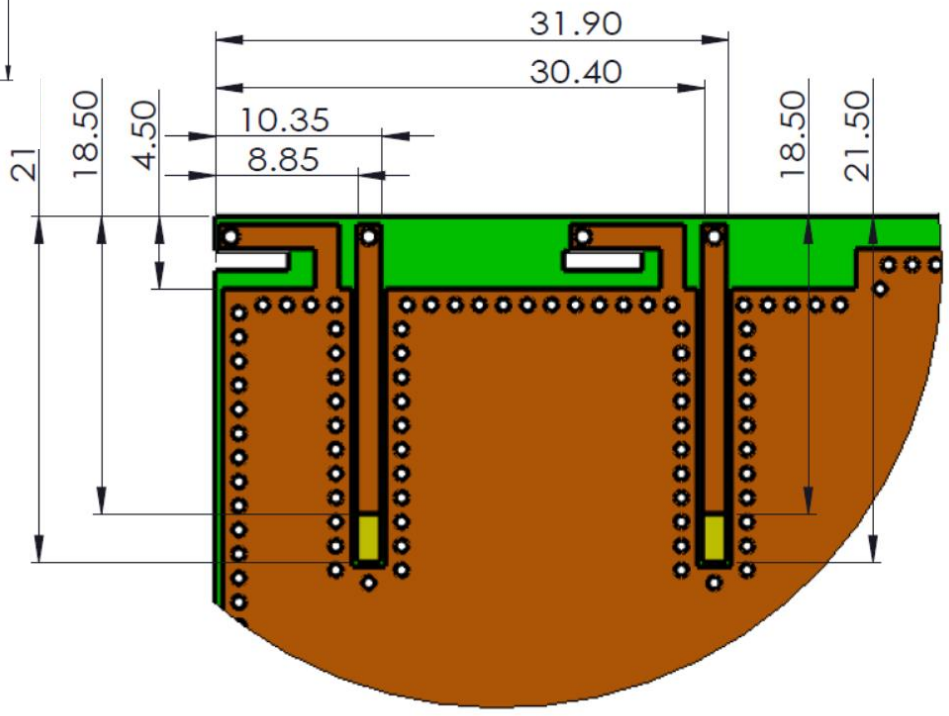
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OTHER SPECIFICATIONS

Recommended PCB layout(Unit:mm)





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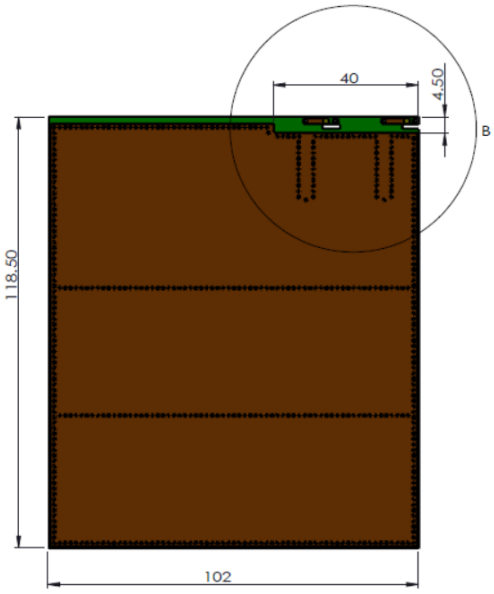
RoHS COMPLIANT

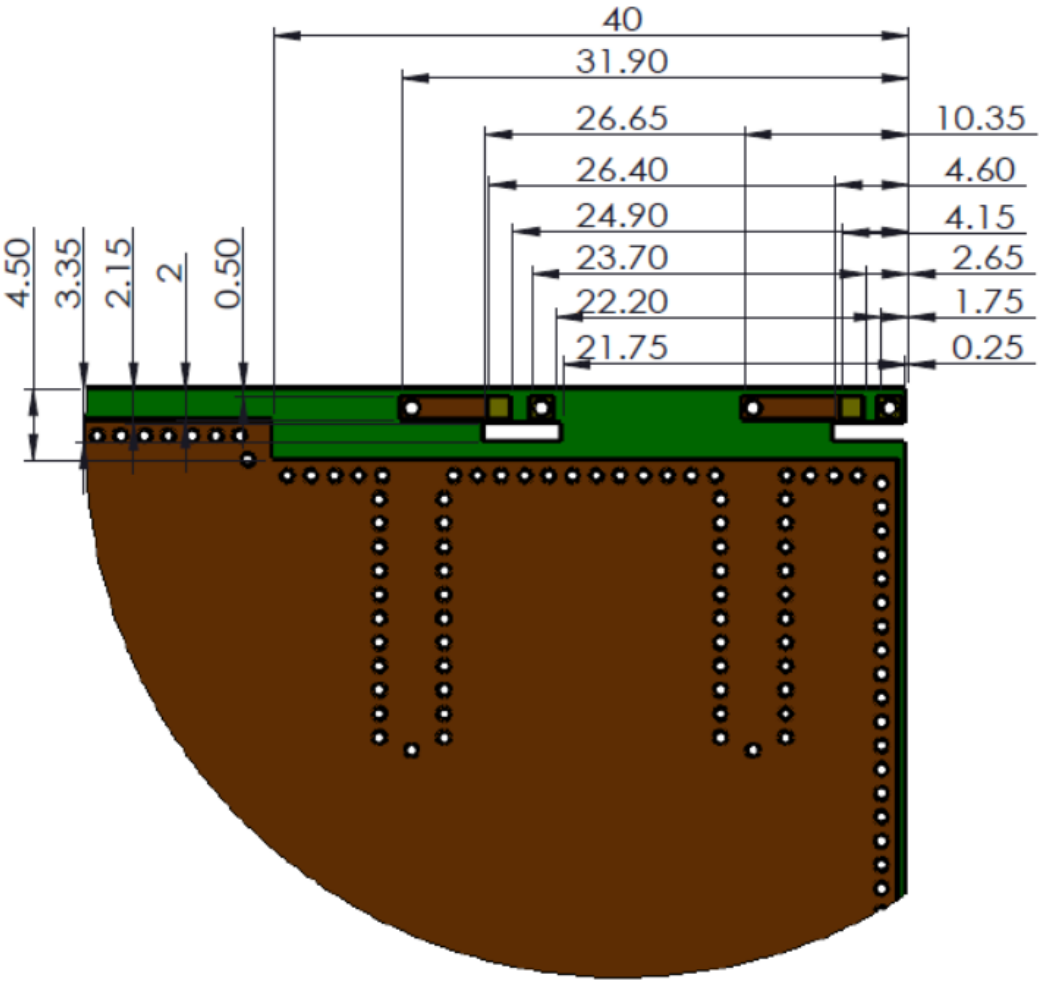
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OTHER SPECIFICATIONS





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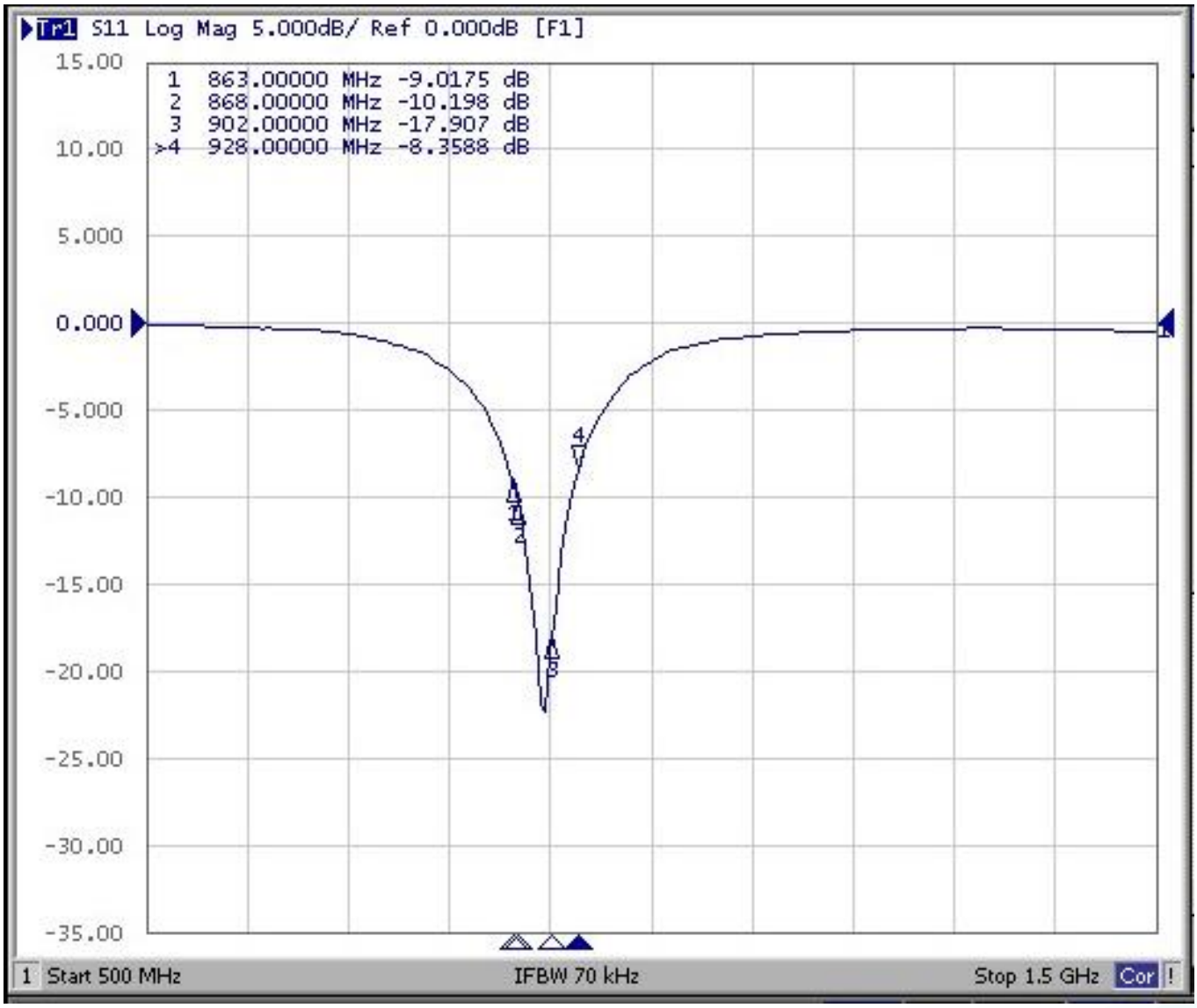
Description: ISM868/915MHz, 2.4GHz Ant

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CHARTS

ISM868/915MHz Band Return Loss



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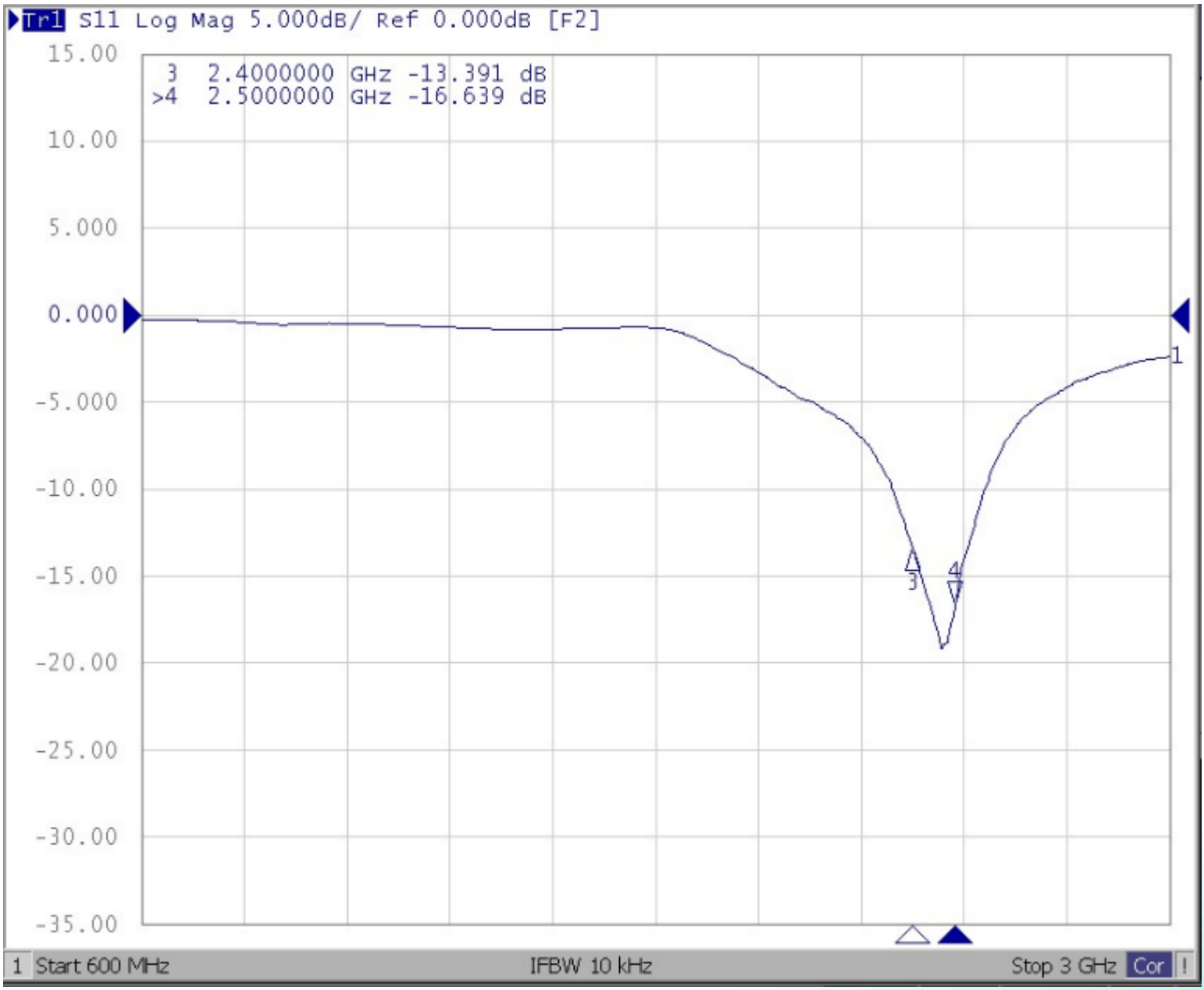
Description: ISM868/915MHz, 2.4GHz Ant

Series: PCB Embedded

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CHARTS

ISM2.4GHz Return Loss



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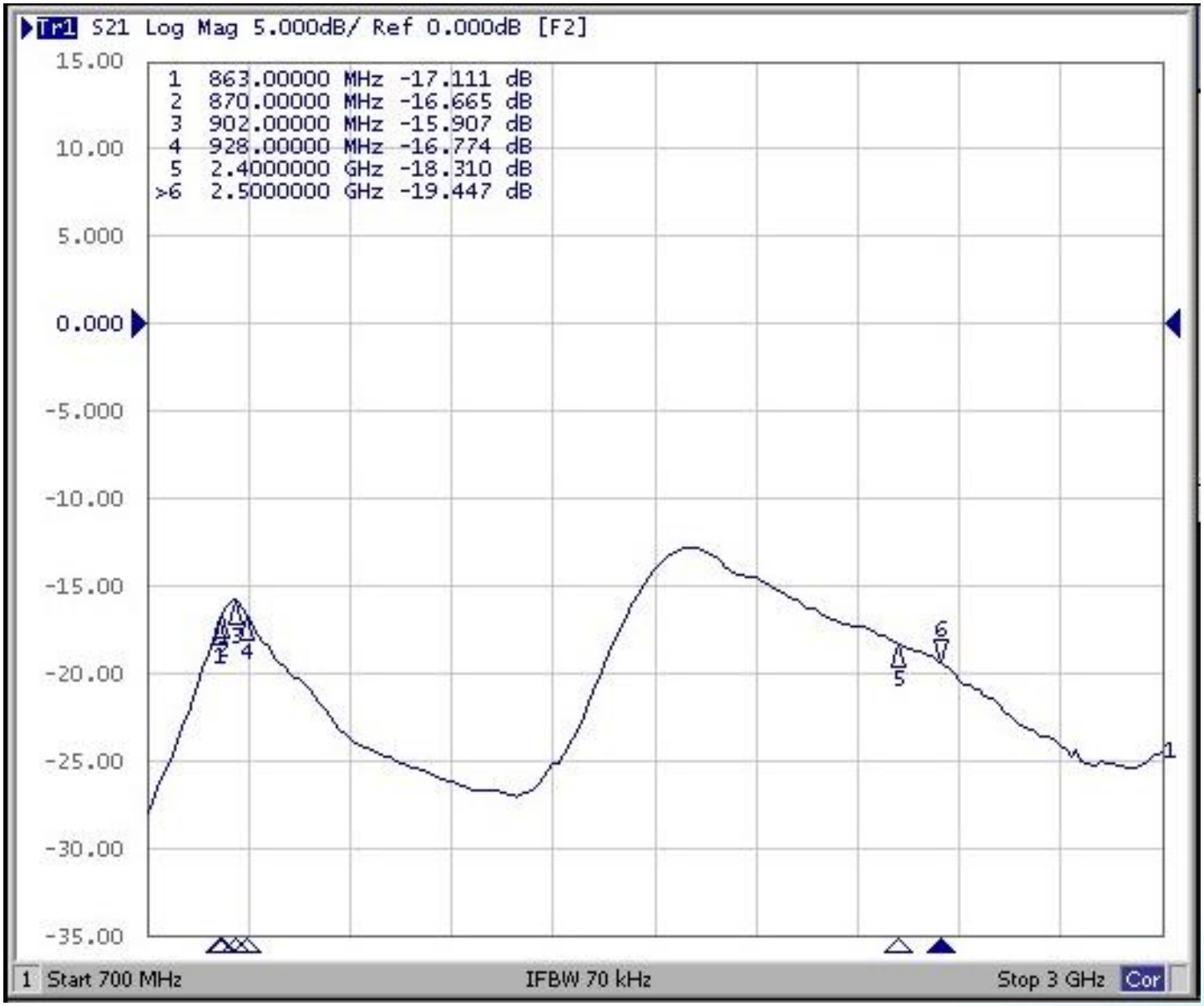
Description: ISM868/915MHz, 2.4GHz Ant

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CHARTS

Isolation



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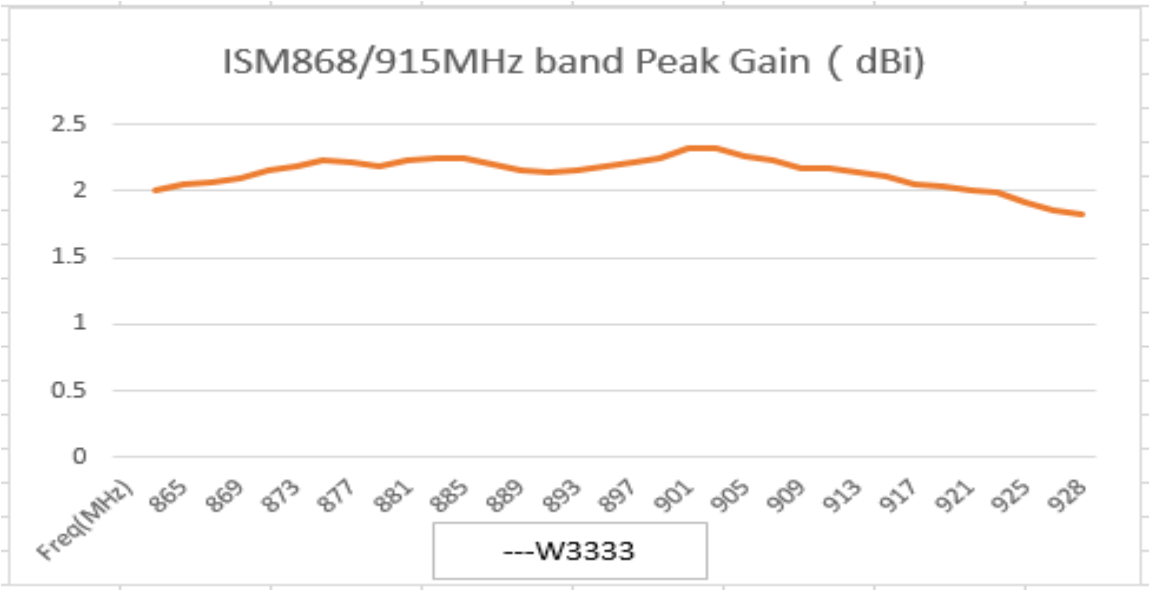
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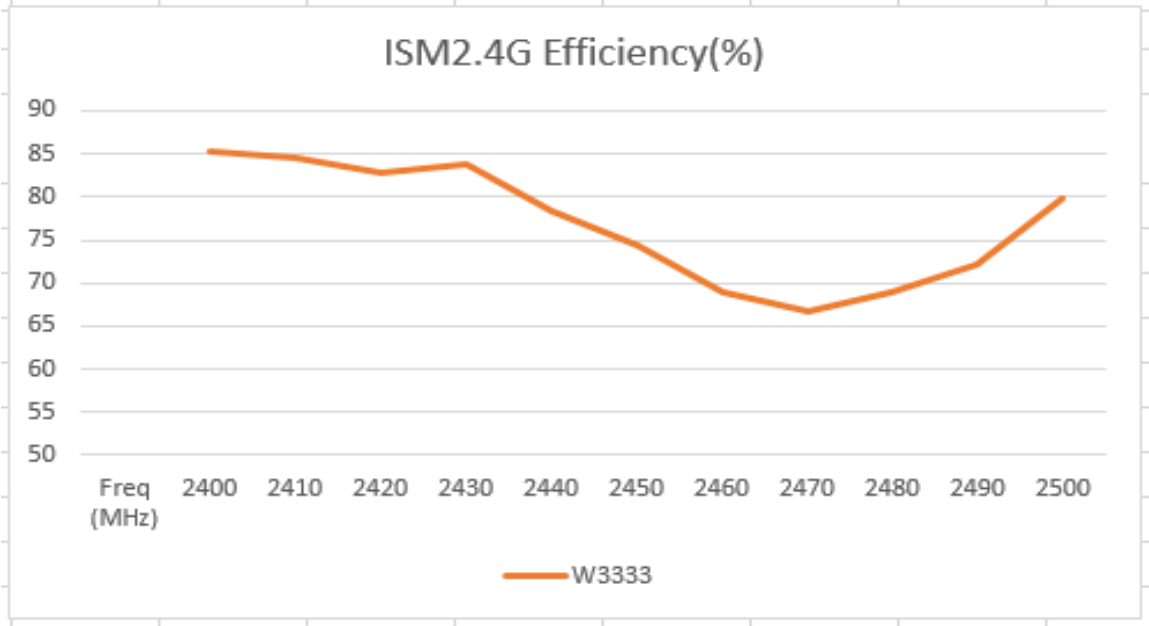
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CHARTS

Efficiency(%)





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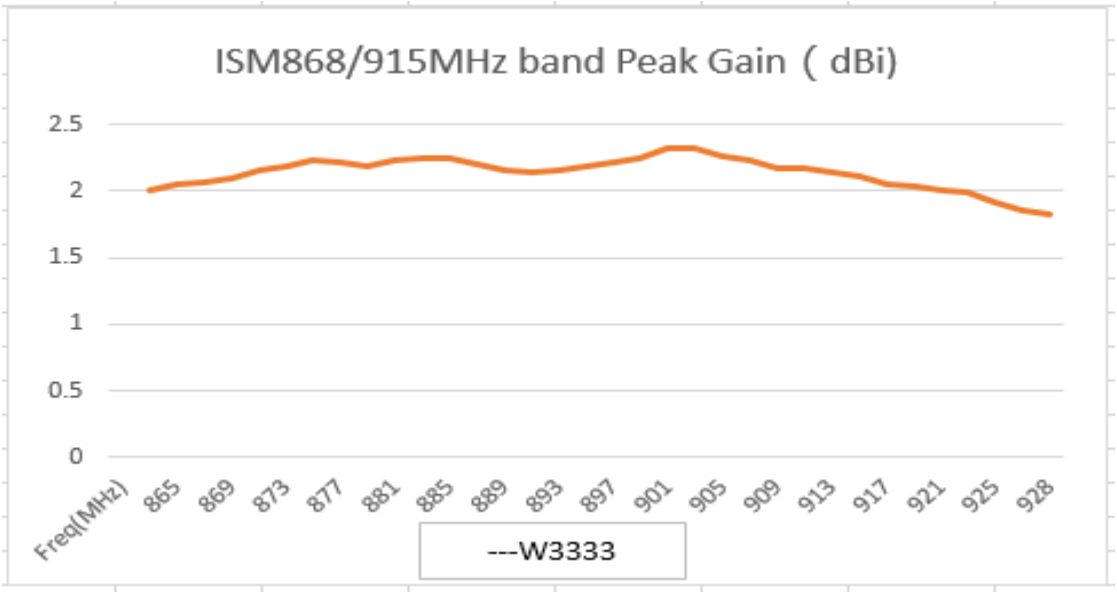
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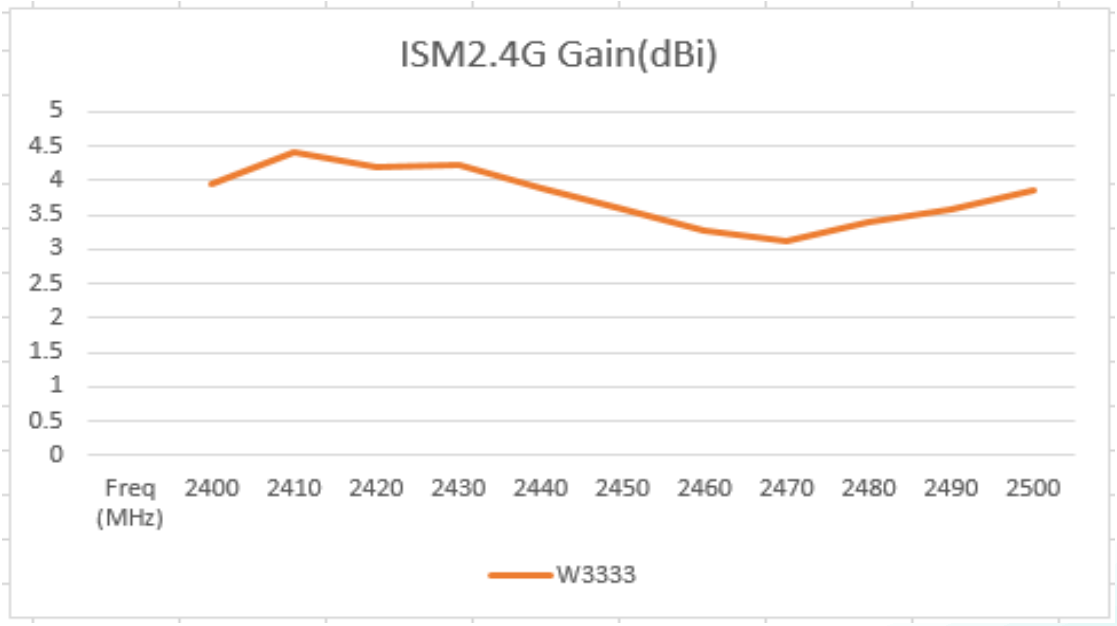
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CHARTS

Peak Gain(dBi)





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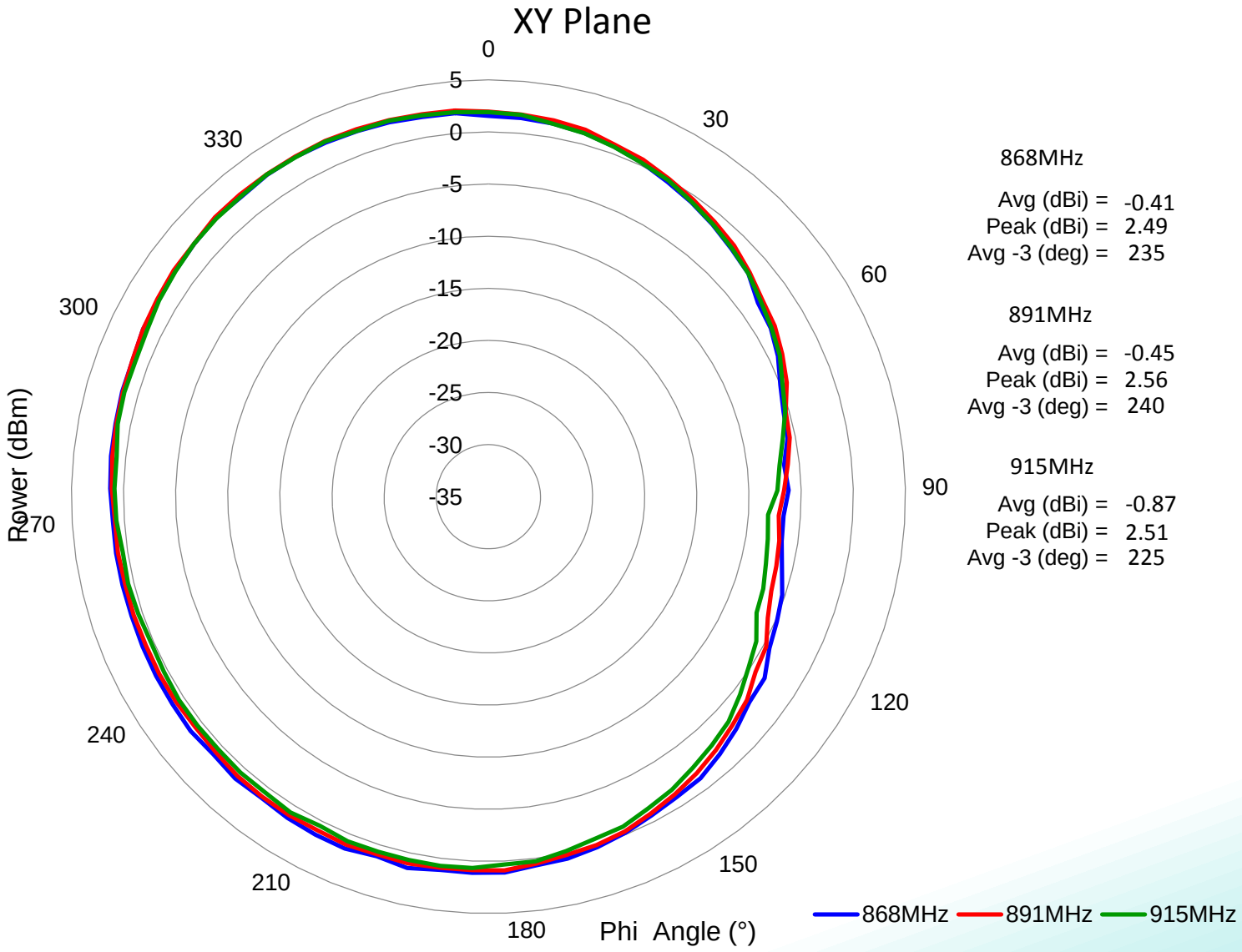
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CHARTS

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



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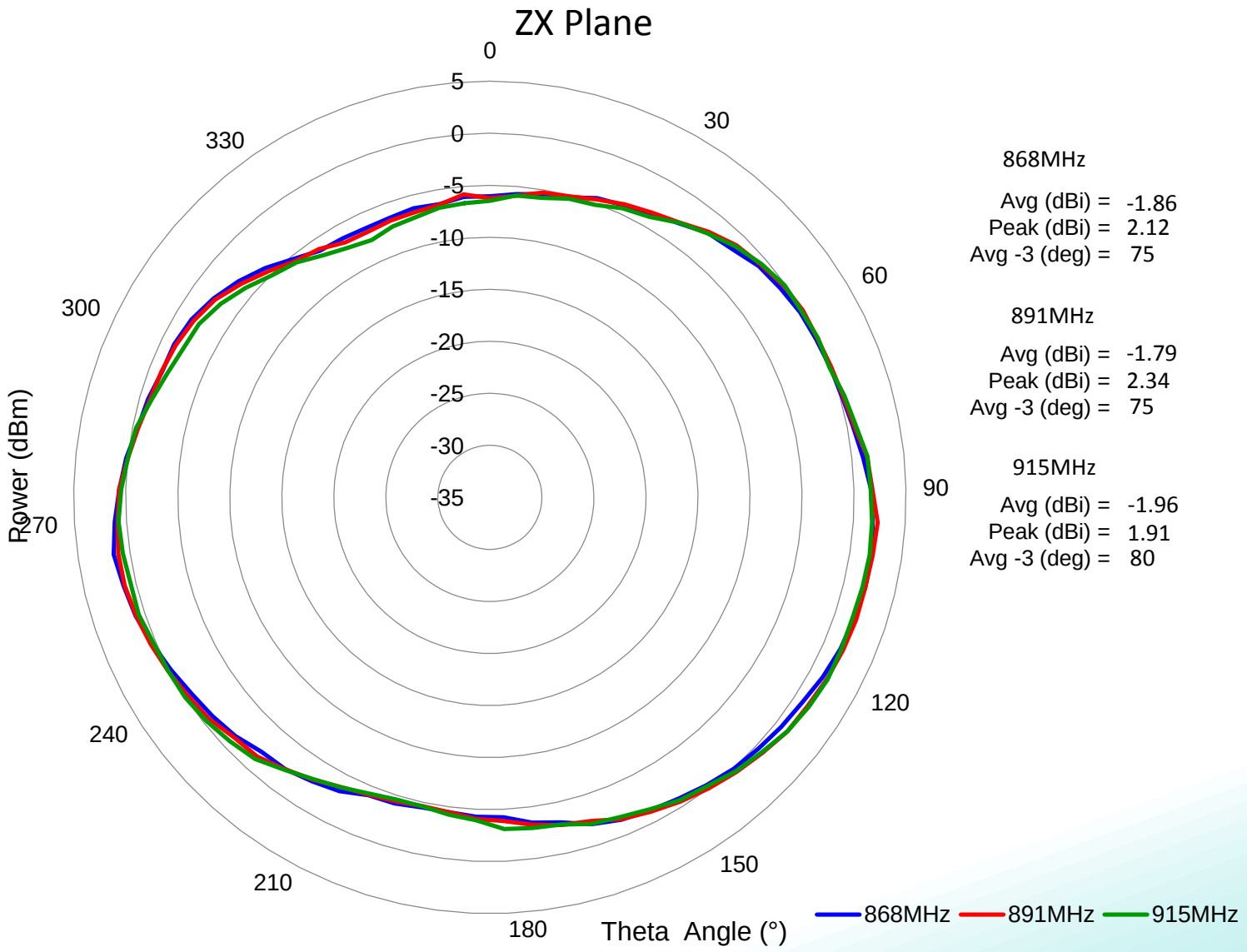
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CHARTS

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



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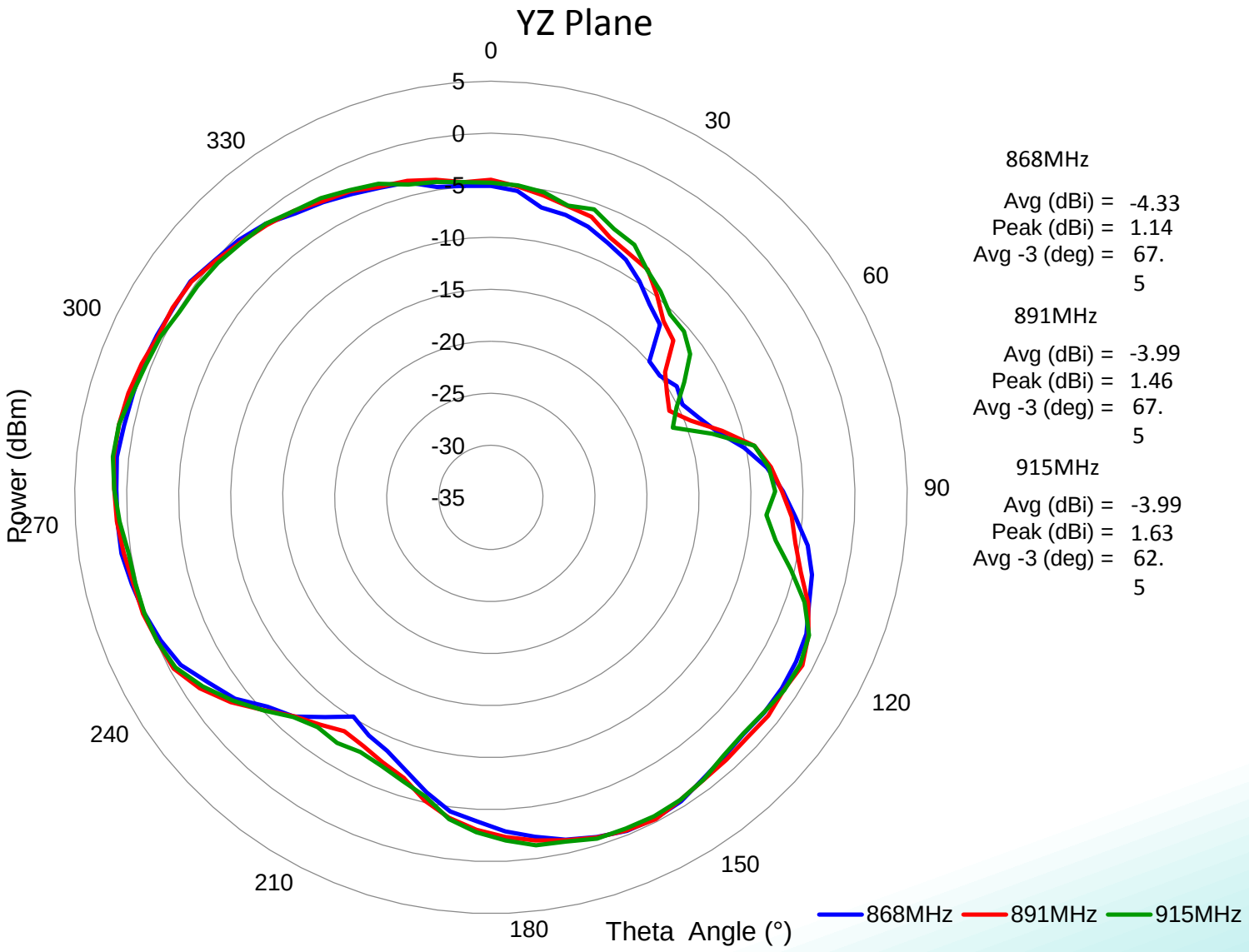
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CHARTS

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



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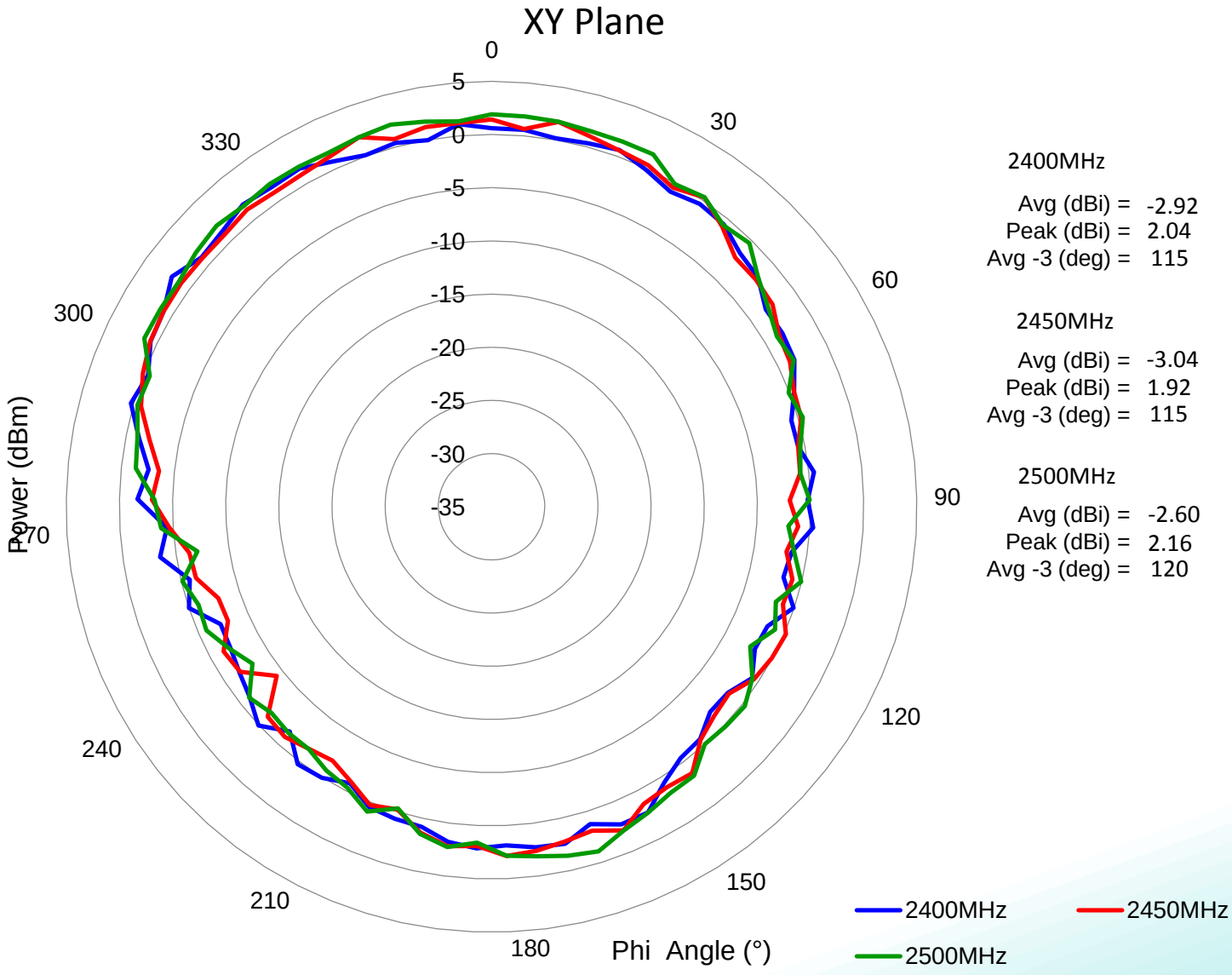
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CHARTS

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



2400MHz

Avg (dBi) = -2.92
Peak (dBi) = 2.04
Avg -3 (deg) = 115

2450MHz

Avg (dBi) = -3.04
Peak (dBi) = 1.92
Avg -3 (deg) = 115

2500MHz

Avg (dBi) = -2.60
Peak (dBi) = 2.16
Avg -3 (deg) = 120

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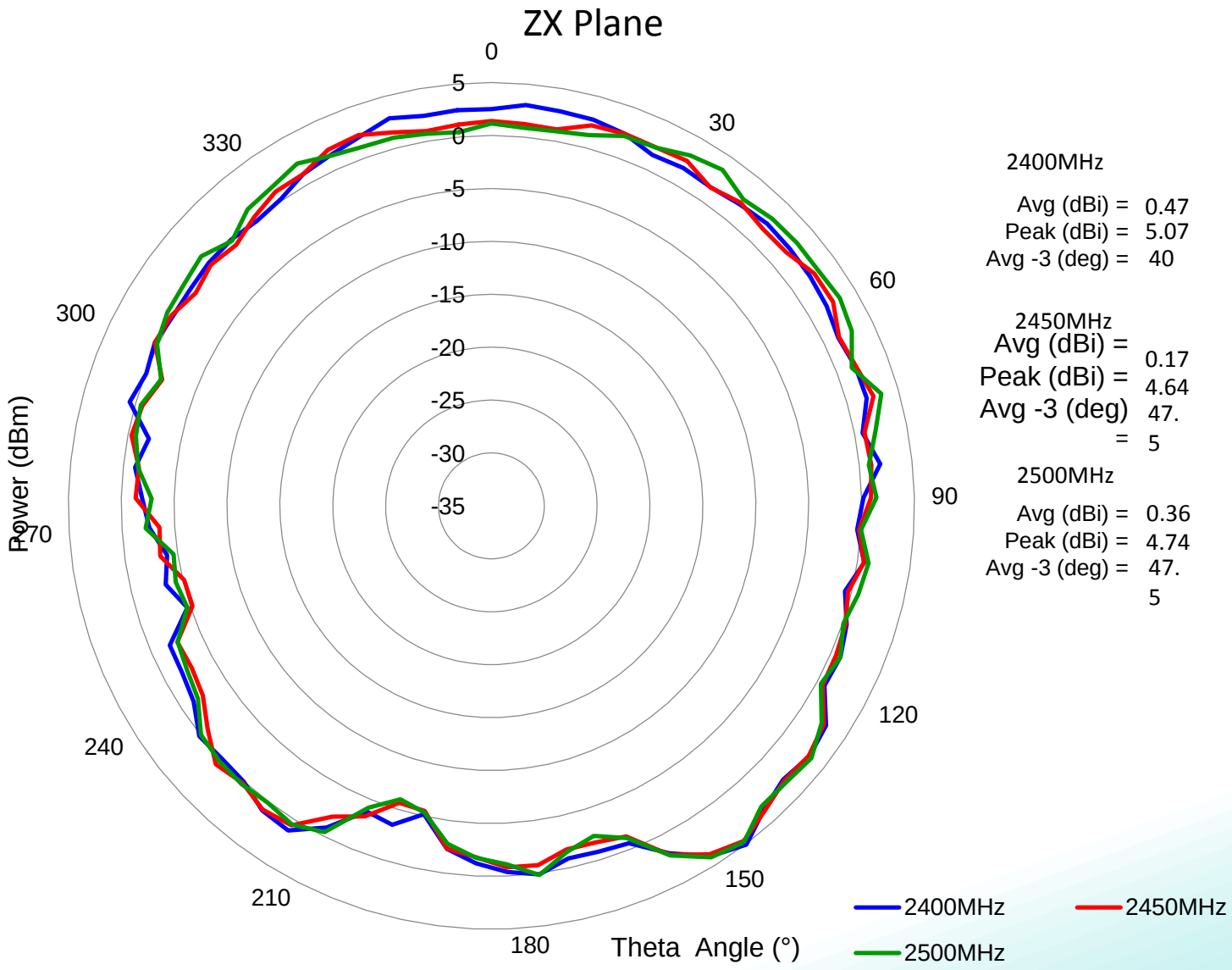
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ISM2.4GHz
Z-X plane



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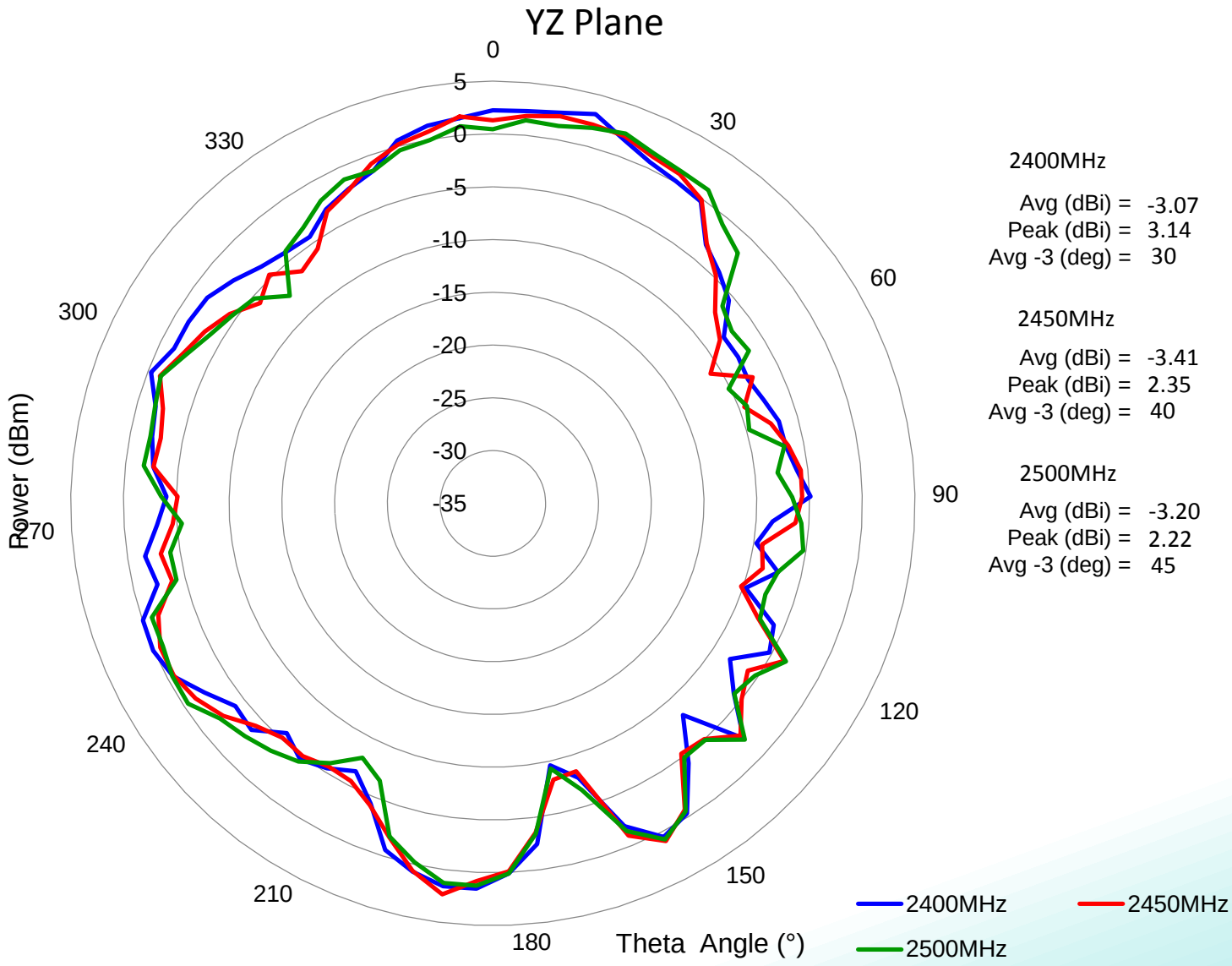
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PACKAGING

10PCS/PE bag
1000PCS/box

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