

Features:

- 2400-2483.5MHz
- Size: 3.2 x 1.6 x 1.1mm
- Efficiency: 68 %
- Gain: 1.3 dBi
- Polarization: Linear
- Power Handling: 5W
- RoHS Compliant
- Moisture Sensitivity Level MSL3



Applications:

- Bluetooth, BLE, Zigbee, WiFi
- 2.4GHz ISM band radios

All dimensions are in mm / inches

Issue: 1823

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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ELECTRICAL SPECIFICATIONS

Frequency	2400-2483.5MHz
Nominal Impedance	50 Ω
Return Loss	-8dB
Radiation Pattern	Omni
Gain	1.3dBi
Efficiency	68%
Polarization	Linear
Power Withstanding	5W

MECHANICAL SPECIFICATIONS

Overall Length	3.2x1.6x1.1mm
Weight	33mg
Antenna Color / Material	Ceramic

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40~+85° C
Storage Temperature	-40~+85° C
RoHS Compliant	Yes

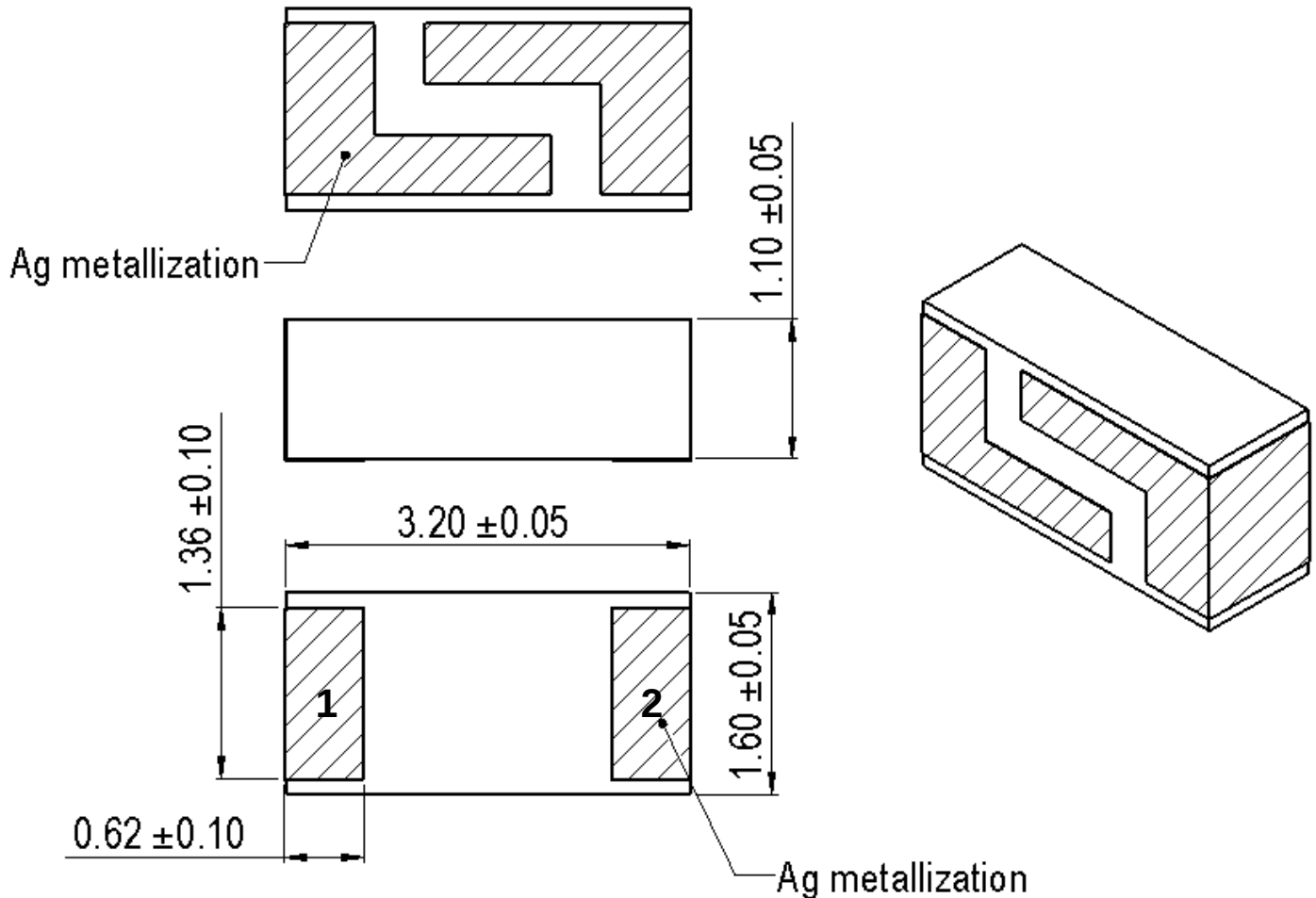
(*) All RF parameters measured on 80*37mm PCB with 4*6.25mm clearance in free space. No matching component used.

Description: 2.4-2.4835GHz Ceramic SMT antenna, 4x6.25mm keep out area

Series: Chip Antenna

PART NUMBER: W3008C

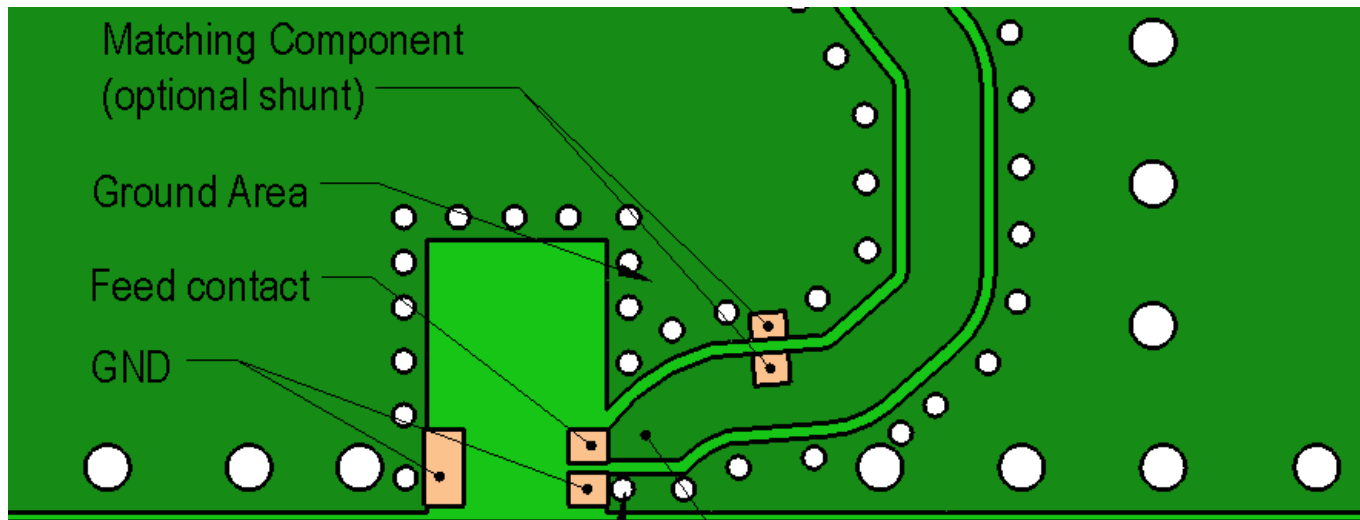
MECHANICAL DRAWING



No.	Terminal Name	Terminal Dimensions
1	Feed /GND	0.62 x 1.36 mm
2	Feed /GND	0.62 x 1.36 mm
Antenna is symmetrical, either one of pads 1 or 2 can be used as feed terminal		

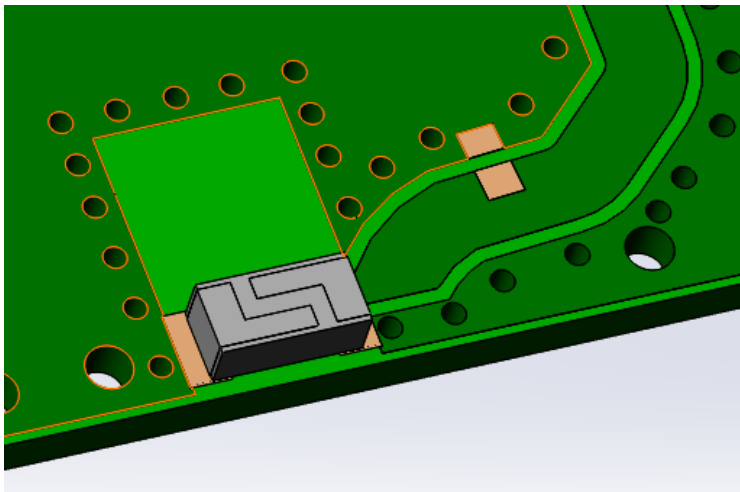
MECHANICAL DRAWING AND TERMINAL CONFIGURATION

Ground cleared under antenna, clearance area 4 mm x 6.25mm



Ground Via Hole
Ground area should be
surround with ground via holes

Feed line 50 Ohm
Any type of 50 Ohm feed line
can be used. inner layers on
feed line area need to designed
to give 50 Ohm characteristics
to feed line.



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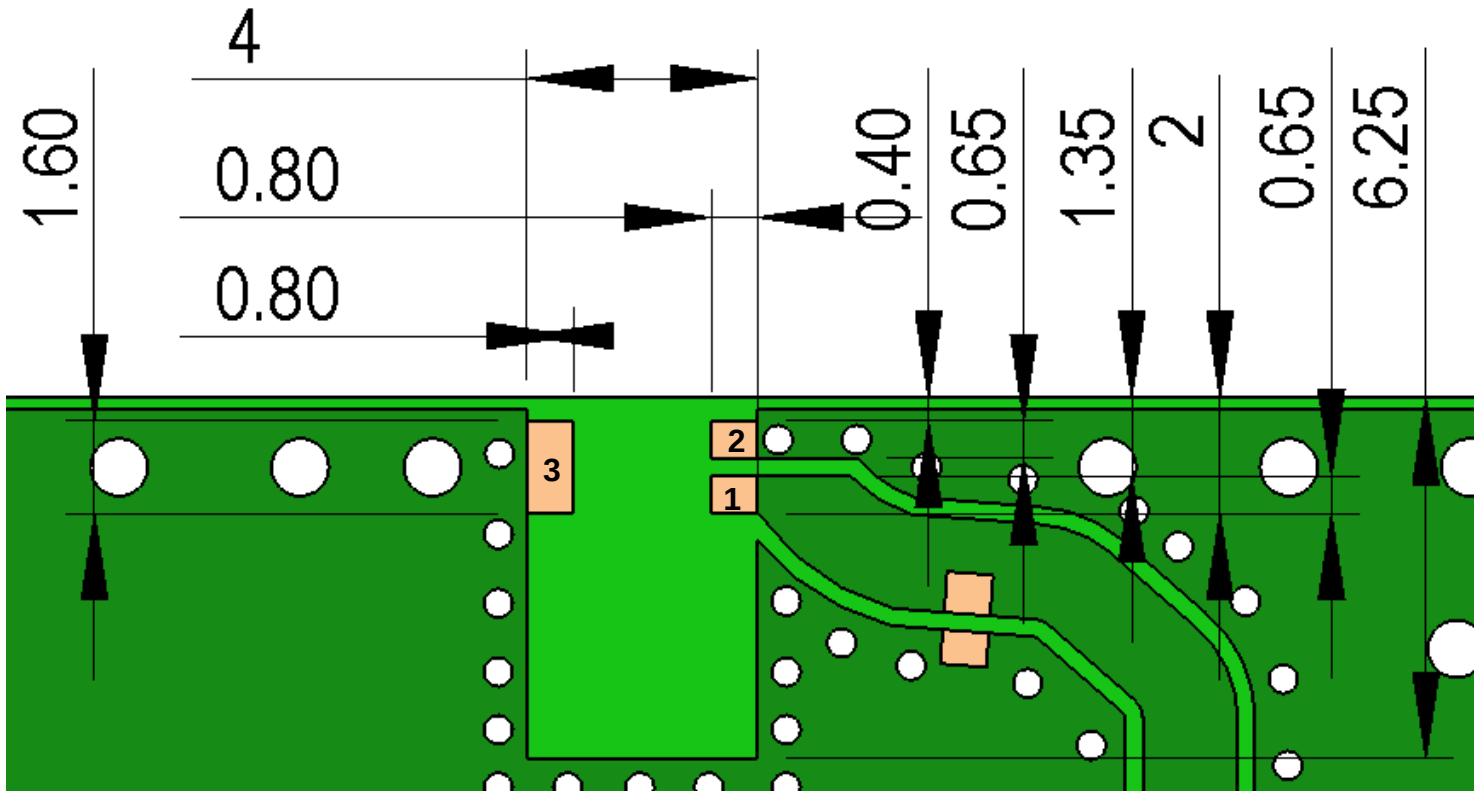
Description: 2.4-2.4835GHz Ceramic SMT antenna, 4x6.25mm keep out area

Series: Chip Antenna

PART NUMBER: W3008C

MECHANICAL DRAWING AND TERMINAL CONFIGURATION

Recommended Antenna Pad Dimensions on PCB Layout (top surface)
Ground cleared under antenna, clearance area 4 mm x 6.25 mm



PCB contact pads

No.	Terminal Name	Terminal Dimensions
1	Feed	0,80 x 0,65 mm
2	GND	0,80 x 0,65 mm
3	GND	0,80 x 1,60 mm

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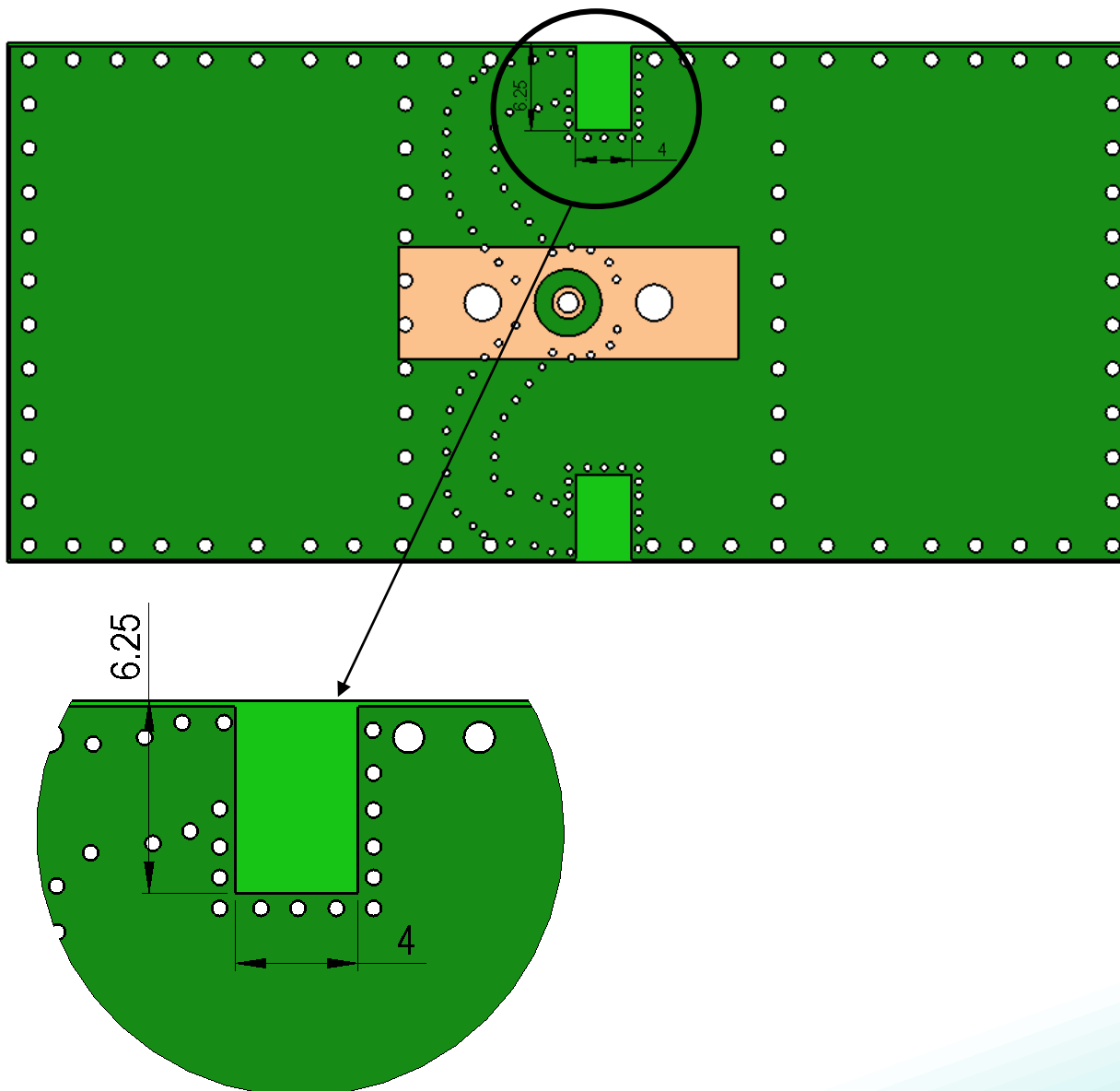
Series: Chip Antenna

Description: 2.4-2.4835GHz Ceramic SMT
antenna, 4x6.25mm keep out area

PART NUMBER: W3008C

MECHANICAL DRAWING AND TERMINAL CONFIGURATION

Recommended Antenna Pad Dimensions on PCB Layout (bottom surface)
Ground cleared under antenna, clearance area 4 mm x 6.25 mm



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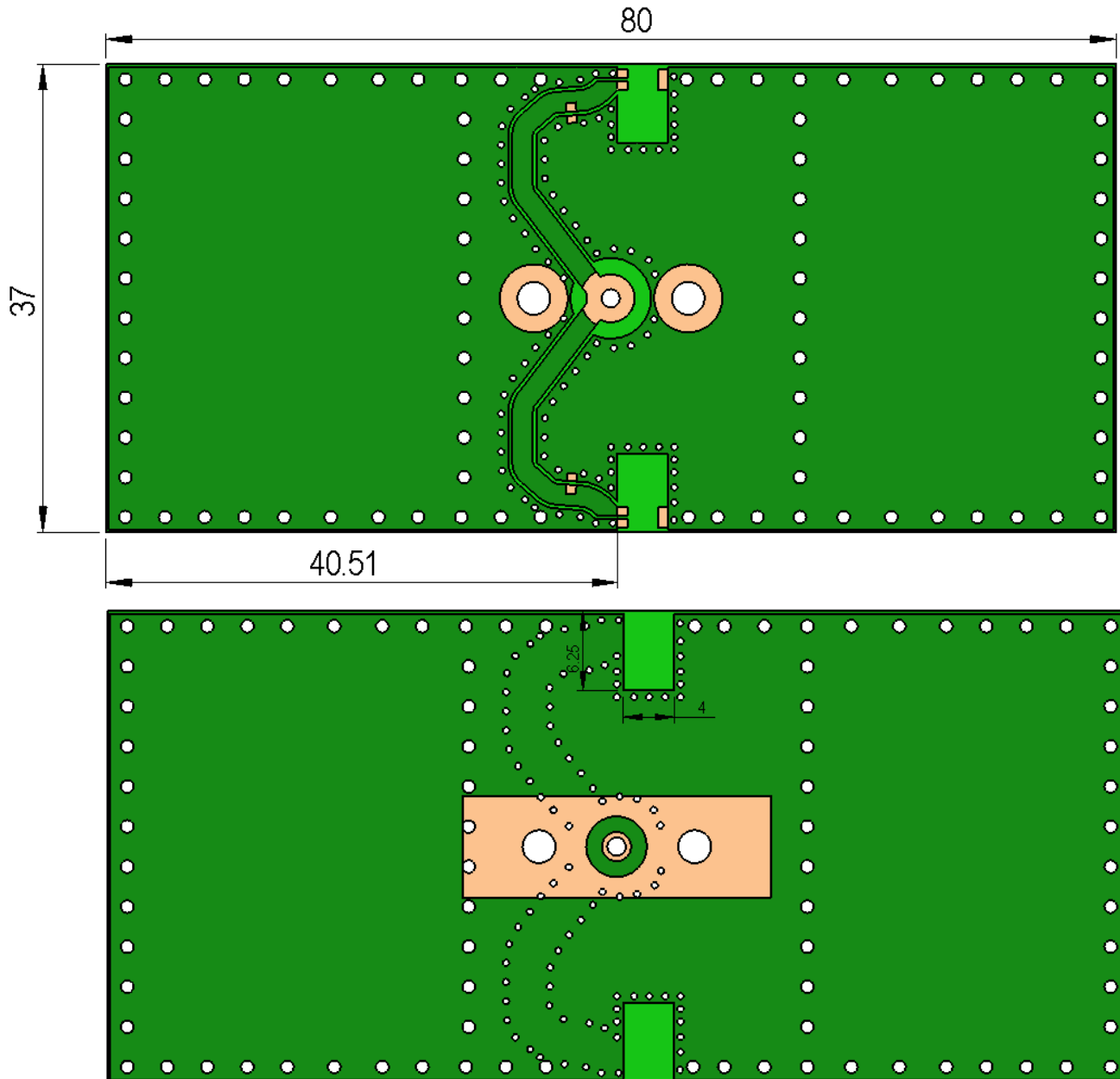
Series: Chip Antenna

Description: 2.4-2.4835GHz Ceramic SMT antenna, 4x6.25mm keep out area

PART NUMBER: W3008C

MECHANICAL DRAWING AND TERMINAL CONFIGURATION

Recommended test board layout for electrical characteristic measurement, test board outline size 80 x 37mm



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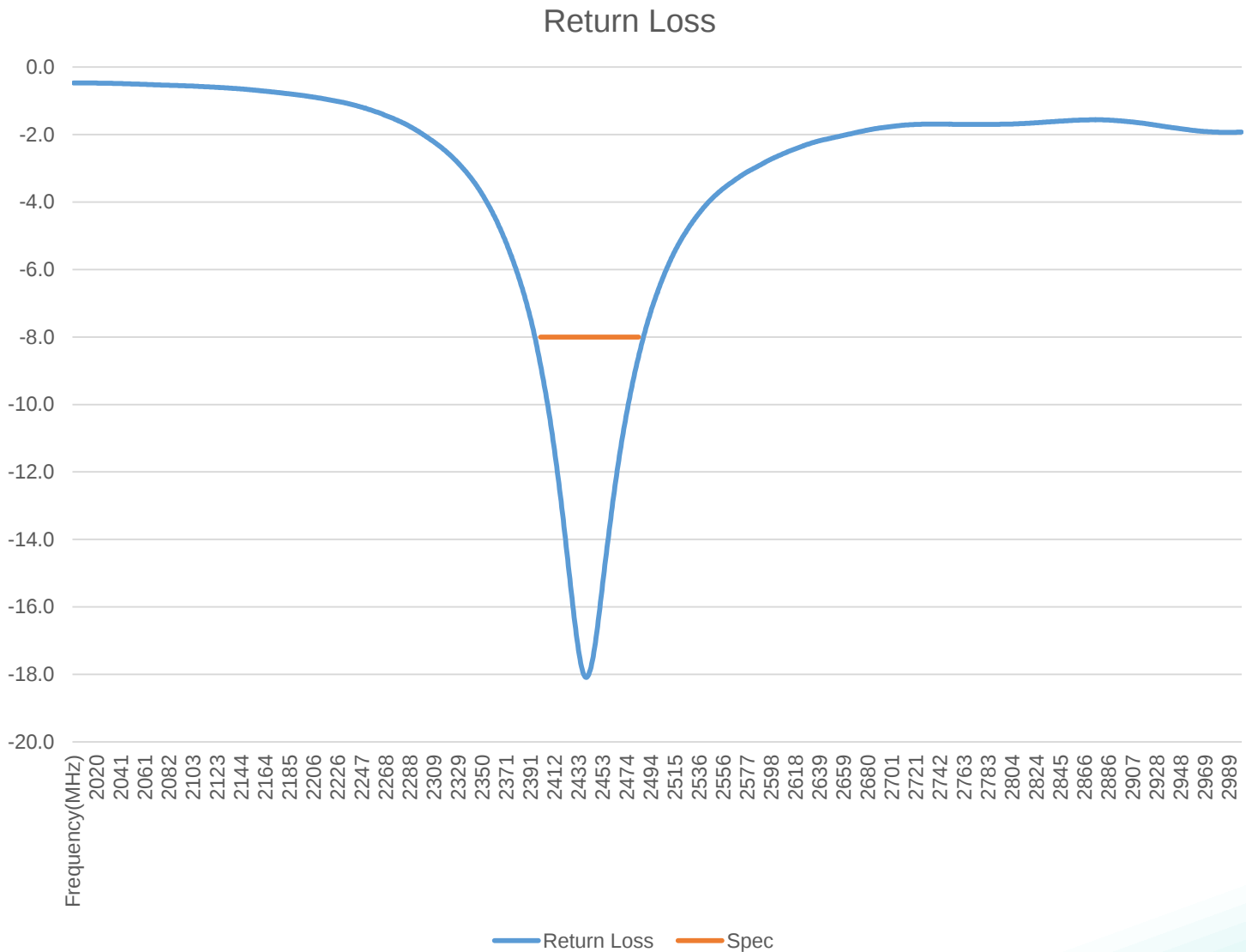
Series: Chip Antenna

Description: 2.4-2.4835GHz Ceramic SMT antenna, 4x6.25mm keep out area

PART NUMBER: W3008C

CHARTS

Return loss



(*) All RF parameters measured on 80*37mm PCB with 4*6.25mm clearance in free space. No matching component used.

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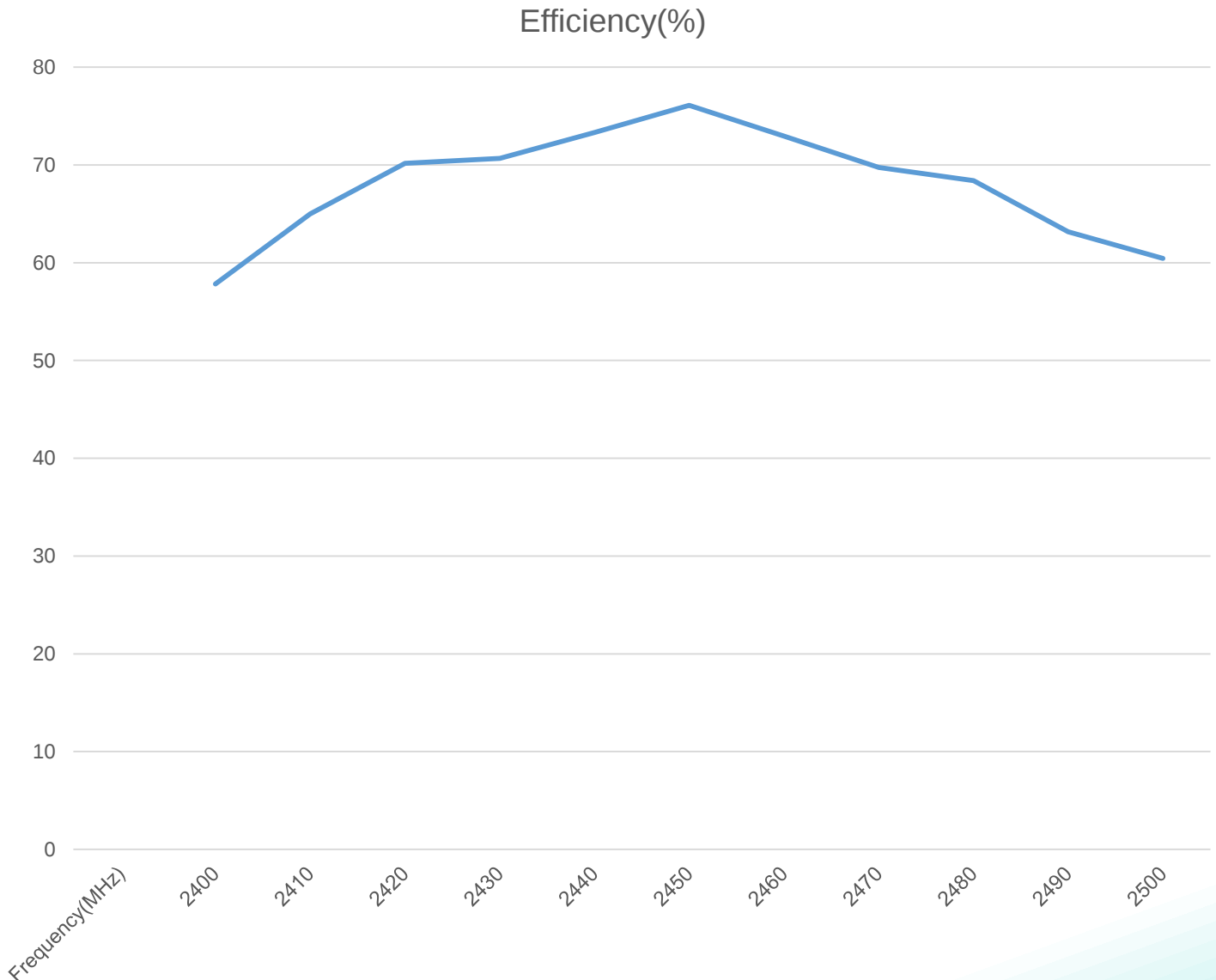
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CHARTS

Efficiency(%)



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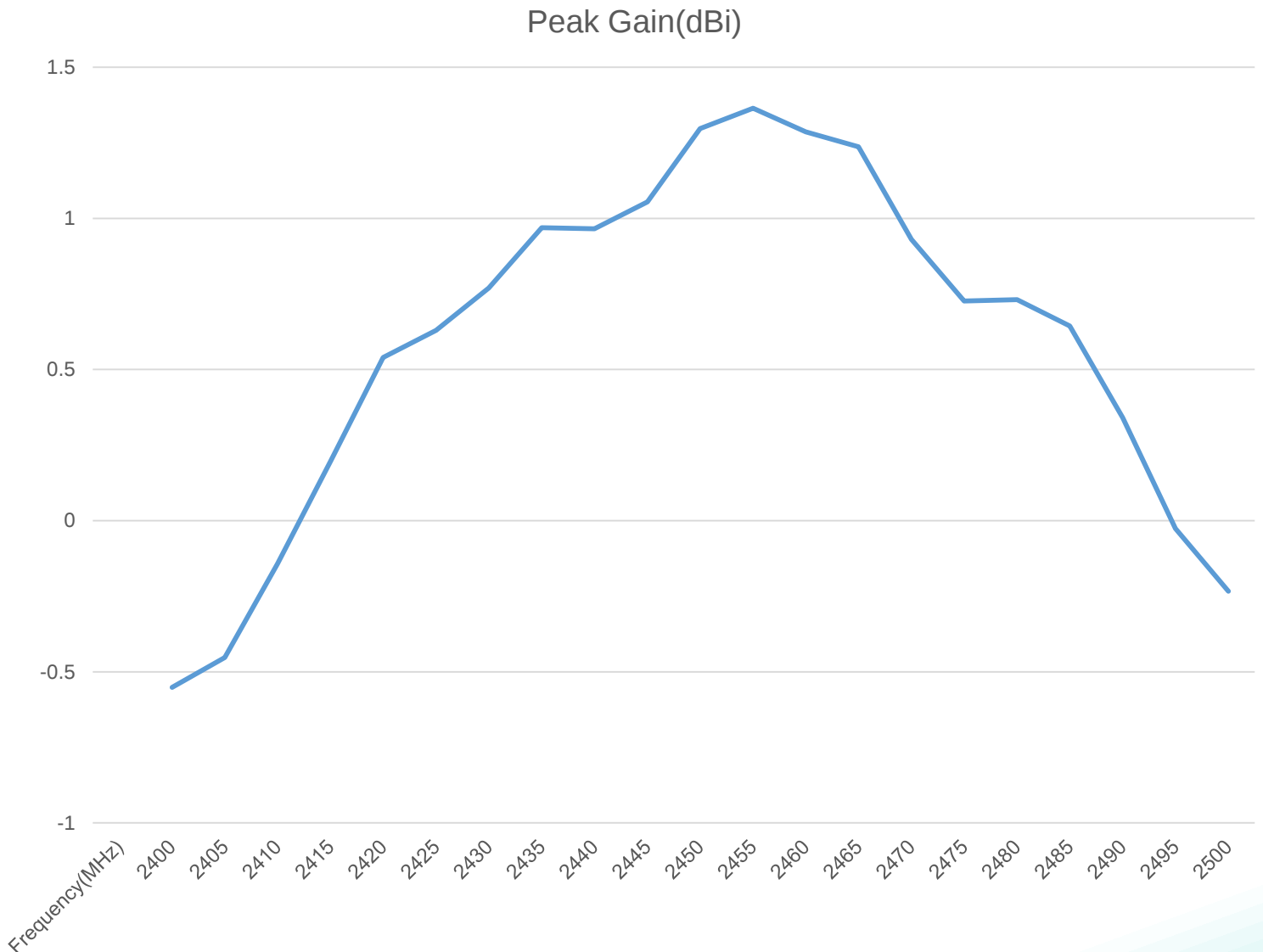
Series: Chip Antenna

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CHARTS

Peak Gain(dBi)



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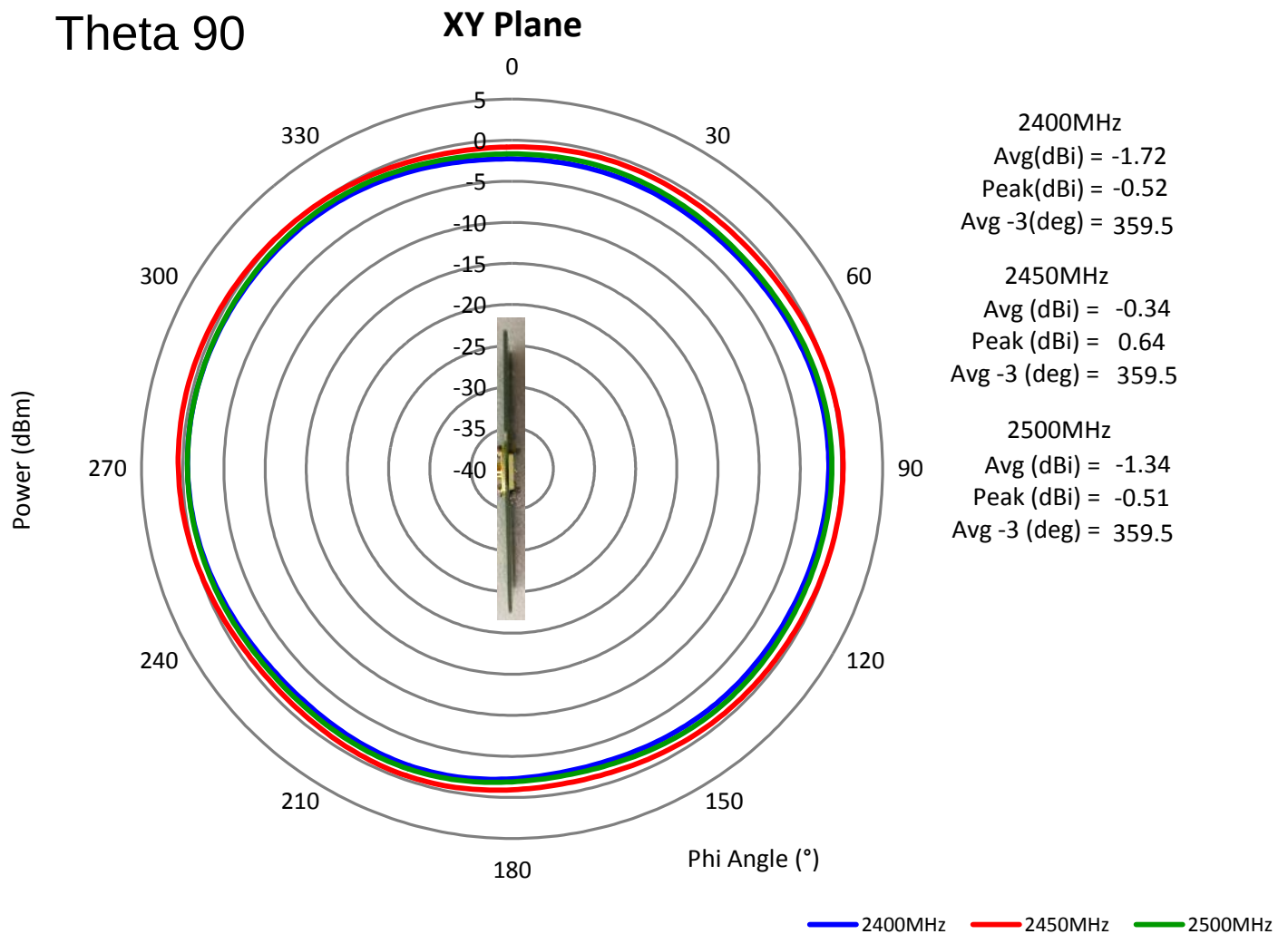
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CHARTS

Free Space Radiation Pattern



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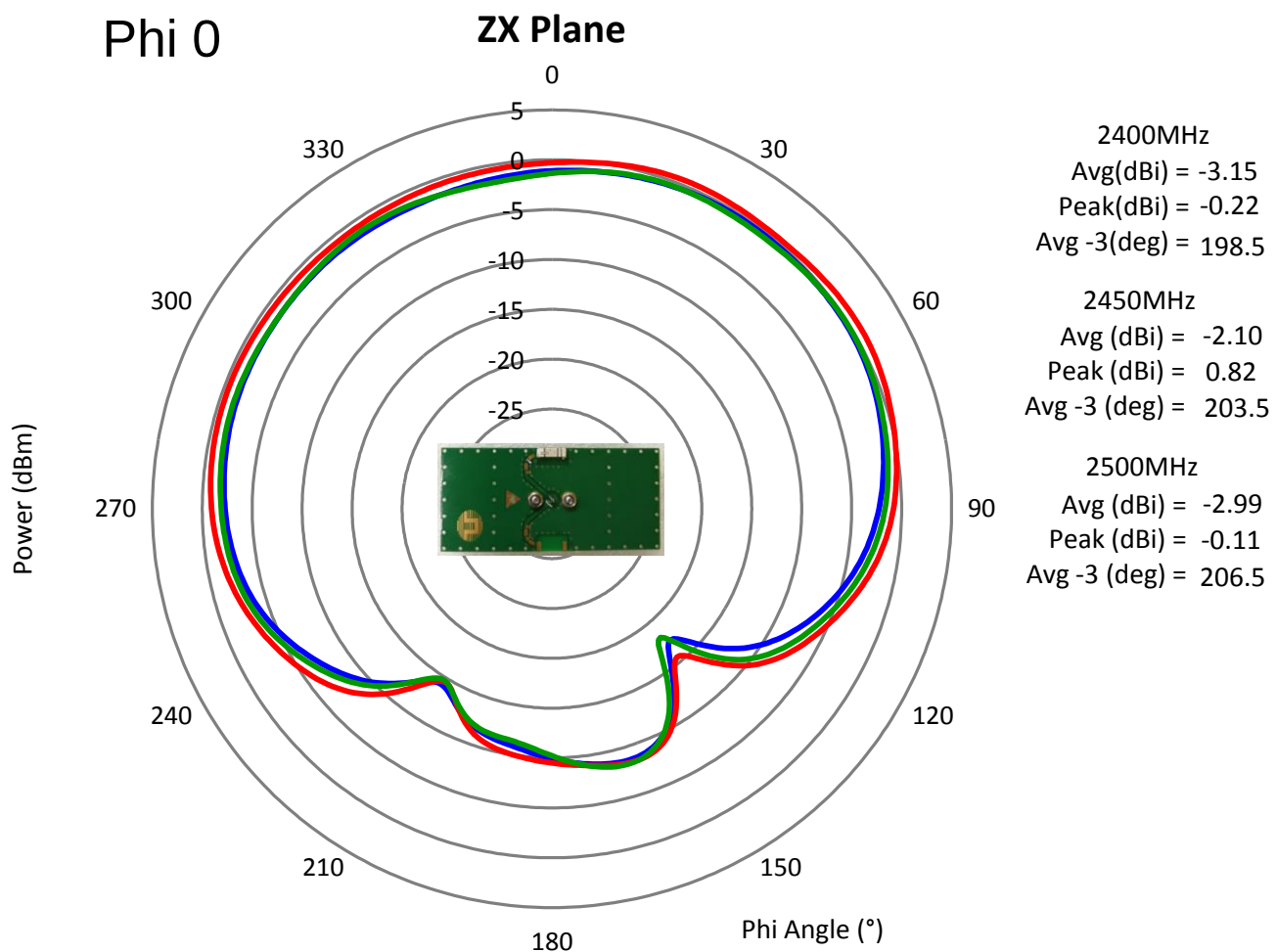
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CHARTS

Free Space Radiation Pattern



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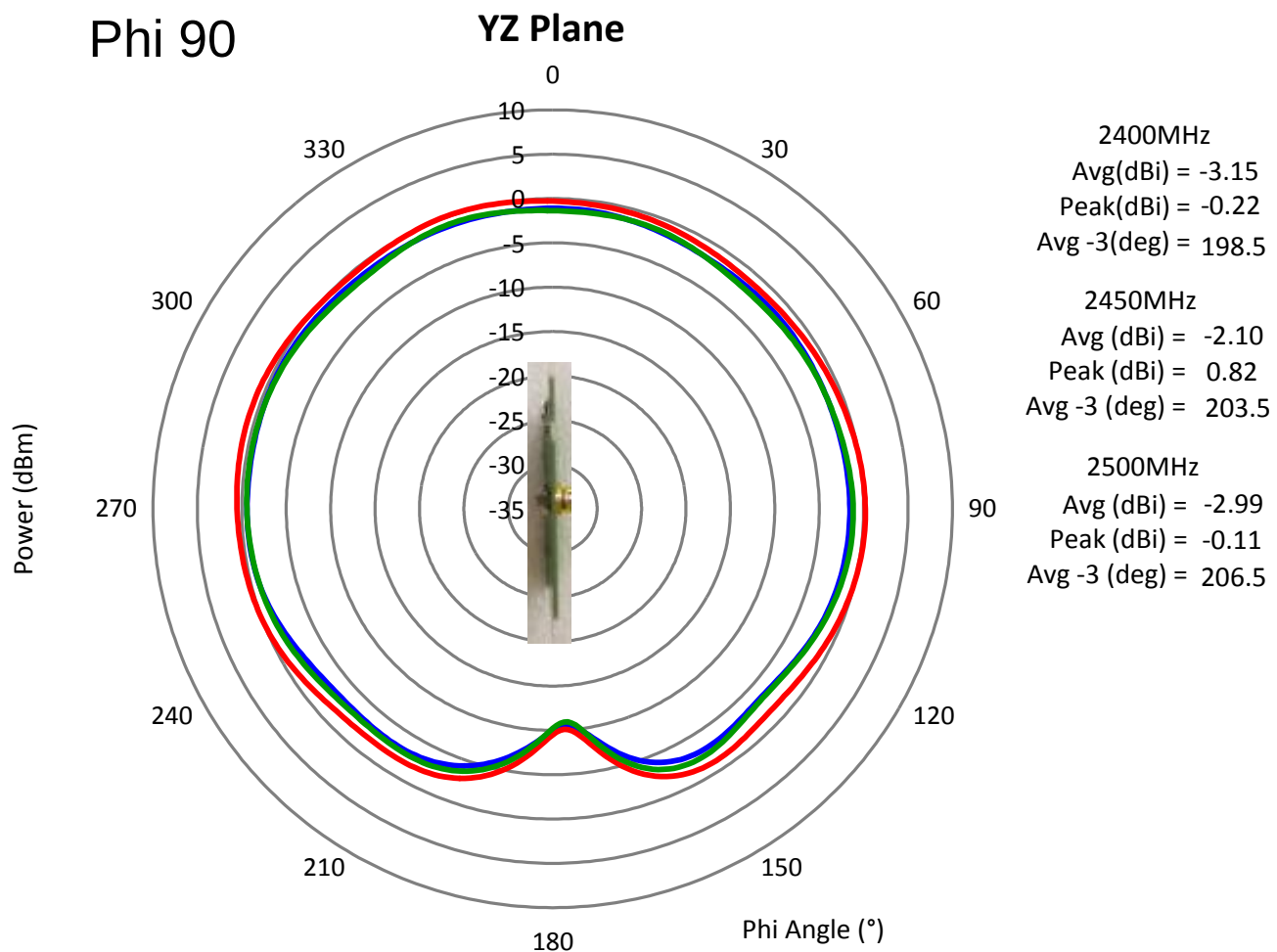
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CHARTS

Free Space Radiation Pattern



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PACKAGING

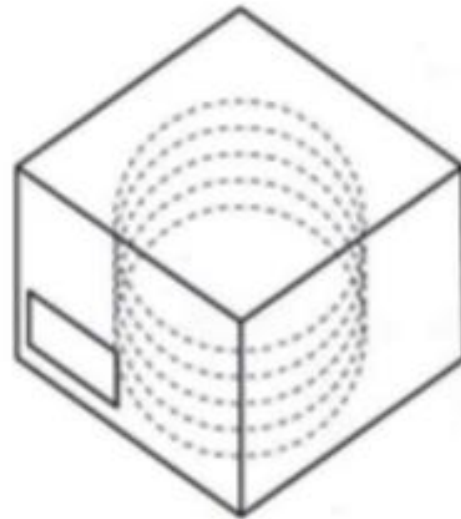
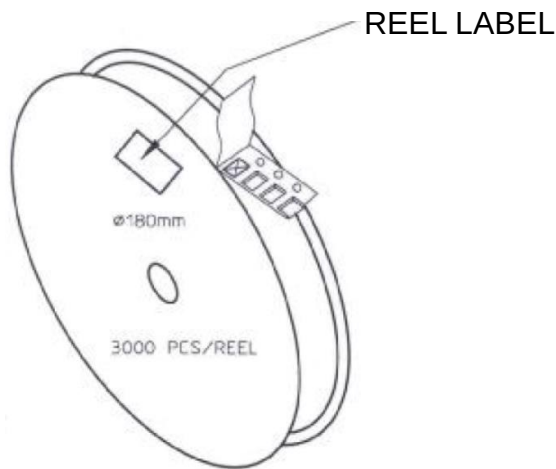
3000pcs antennas per 7" reel

5pcs 7" reel per inner package box

2pcs inner box per out box

Total 30000pcs antenna per out box

Out box size: 390mmx215mmx165mm



According to MSL3 packing requirement, MBB-Moisture Barrel Bag, Desiccant, HIC-Humidity Indicator Card, MSID Label, Caution Label are required.