

Series: Domino

Description: UWB 2.7-8.2GHz GHz SMD Antenna

PART NUMBER: W3540



### Features:

- Compact size:  
12.5x10.6x0.8mm
- Weight 0.27g
- Keep out area:  
13.75x20.15mm
- Omnidirectional pattern
- Fully SMD compatible
- RoHS Compliant

### Applications:

- 2.7 – 8.2 GHz with minimum  
10 dB Return Loss
- Ultra Wide Band radios
- Remote controls
- Key fobs
- M2M, IoT
- Transportation
- Security

All dimensions are in mm

Issue: 1716

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

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For more information:

Pulse Worldwide Headquarters  
15255 Innovation Drive #100  
San Diego, CA 92128  
USA  
Tel: 1-858-674-8100

Pulse/Larsen Antennas  
18110 SE 34<sup>th</sup> St Bldg 2 Suite 250  
Vancouver, WA 98683  
USA  
Tel: 1-360-944-7551

Europe Headquarters  
Pulse GmbH & Do, 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



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**ELECTRICAL SPECIFICATIONS**

Antenna Type	
Frequency	2700-8200MHz
Nominal Impedance	50 Ω
VSWR	2:1
Radiation Pattern	Omni
Peak Gain	5.89dBi
Efficiency	81.3%
Polarization	Vertical
Power Withstanding	5W

**MECHANICAL SPECIFICATIONS**

Overall size	12.5X10.6x0.8 mm
Weight	0.27g
Antenna Color / Material	Green / FR4

**ENVIRONMENTAL SPECIFICATIONS**

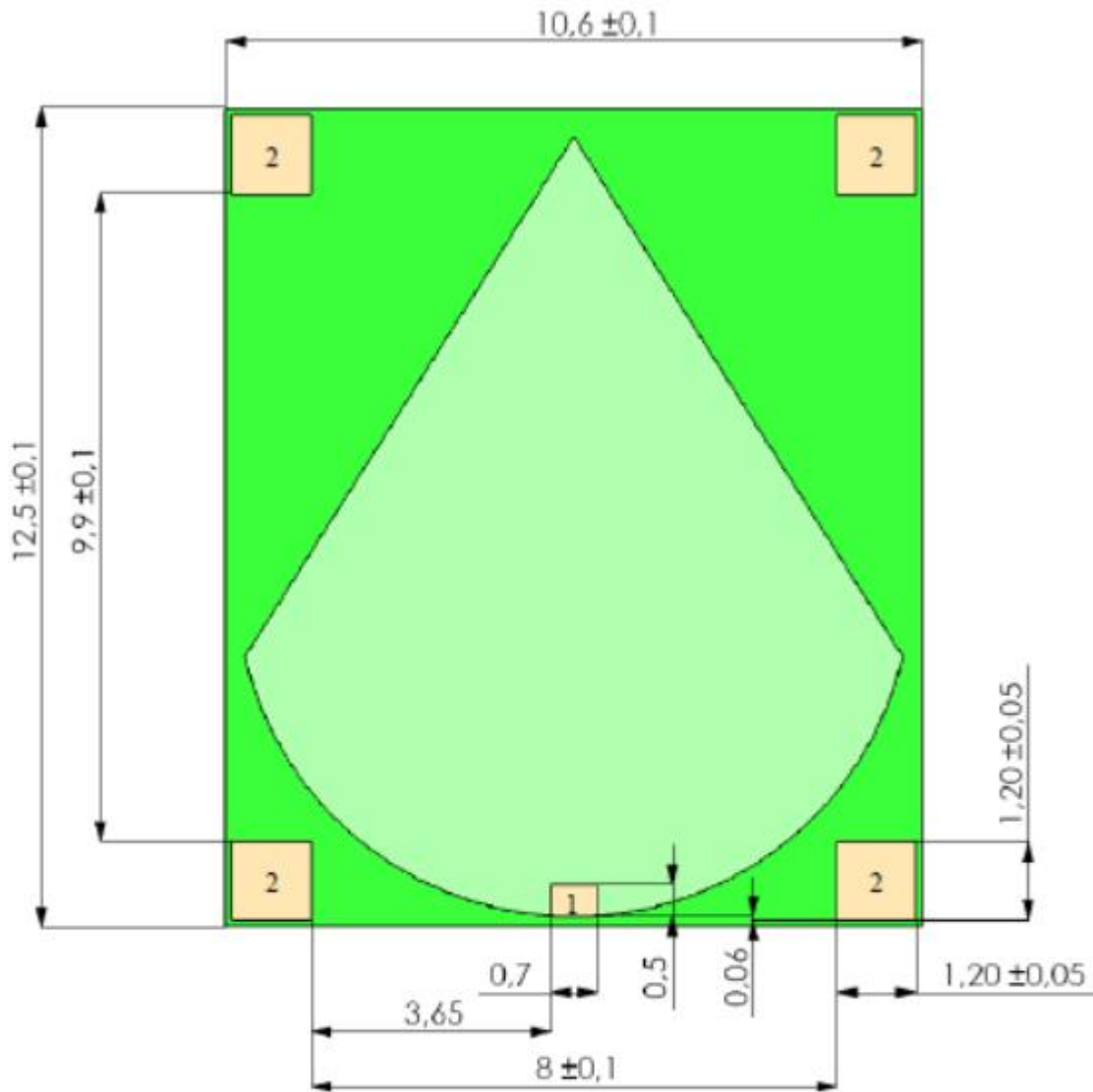
Operating Temperature	-40~+85° C
Storage Temperature	-40~+85° °
RoHS Compliant	Yes

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MECHANICAL DRAWING



No.	Pad Name	Pad Dimensions
1	Feed	0.7 x 0.5 mm
2	Fastening pads	1.2 x 1.2 mm

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Description: UWB 2.7-8.2GHz GHz SMD Antenna

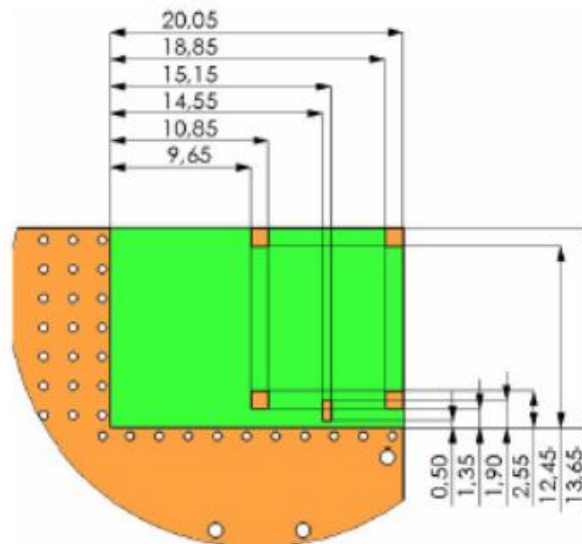
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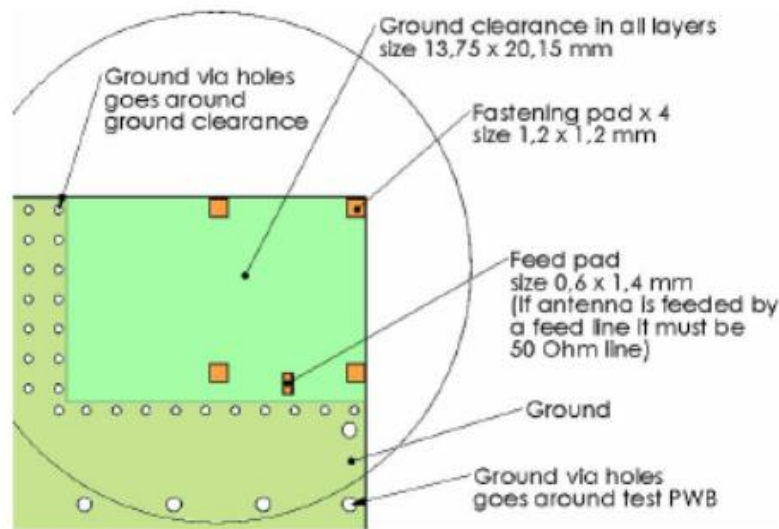
**MECHANICAL DRAWING**

Ground cleared under antenna, clearance area 20.15 mm x 13.75

Recommended test board layout for electrical characteristic measurement, test board outline size 100 x 50 mm



Ground clearance and pads size  
Top copper



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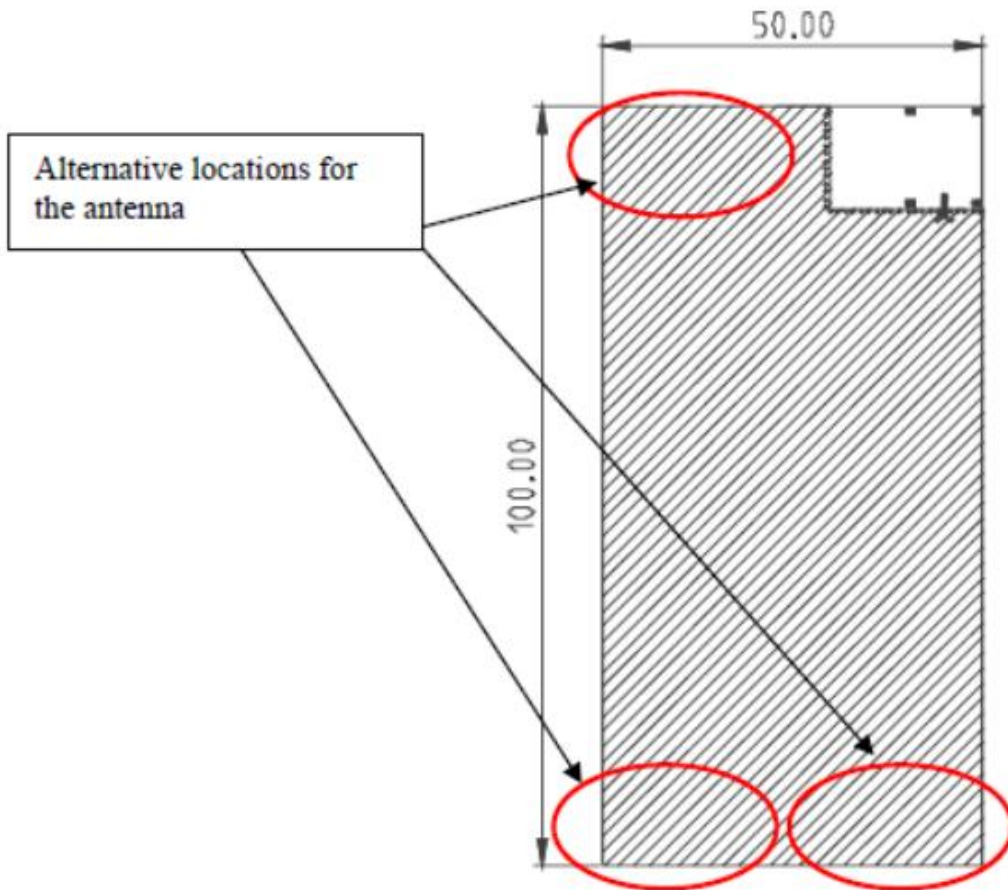
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MECHANICAL DRAWING



- Feed line should be designed to match  $50 \Omega$  characteristic impedance, depending on PWB material and thickness.
- Alternatively the clearance area may be located at the left upper corner of the printed wired board

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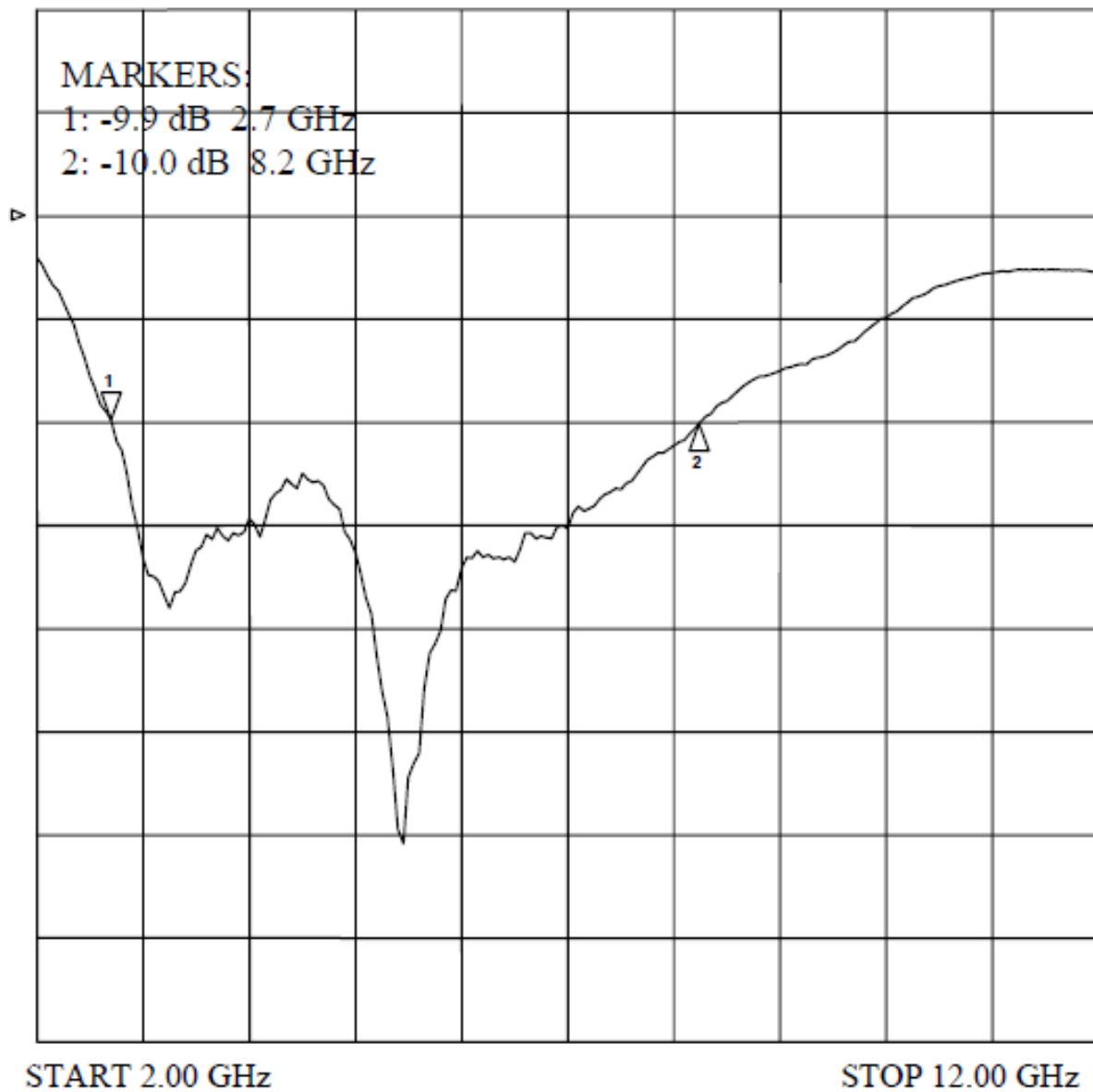
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CHARTS

Return Loss

SCALE 5.0 dB



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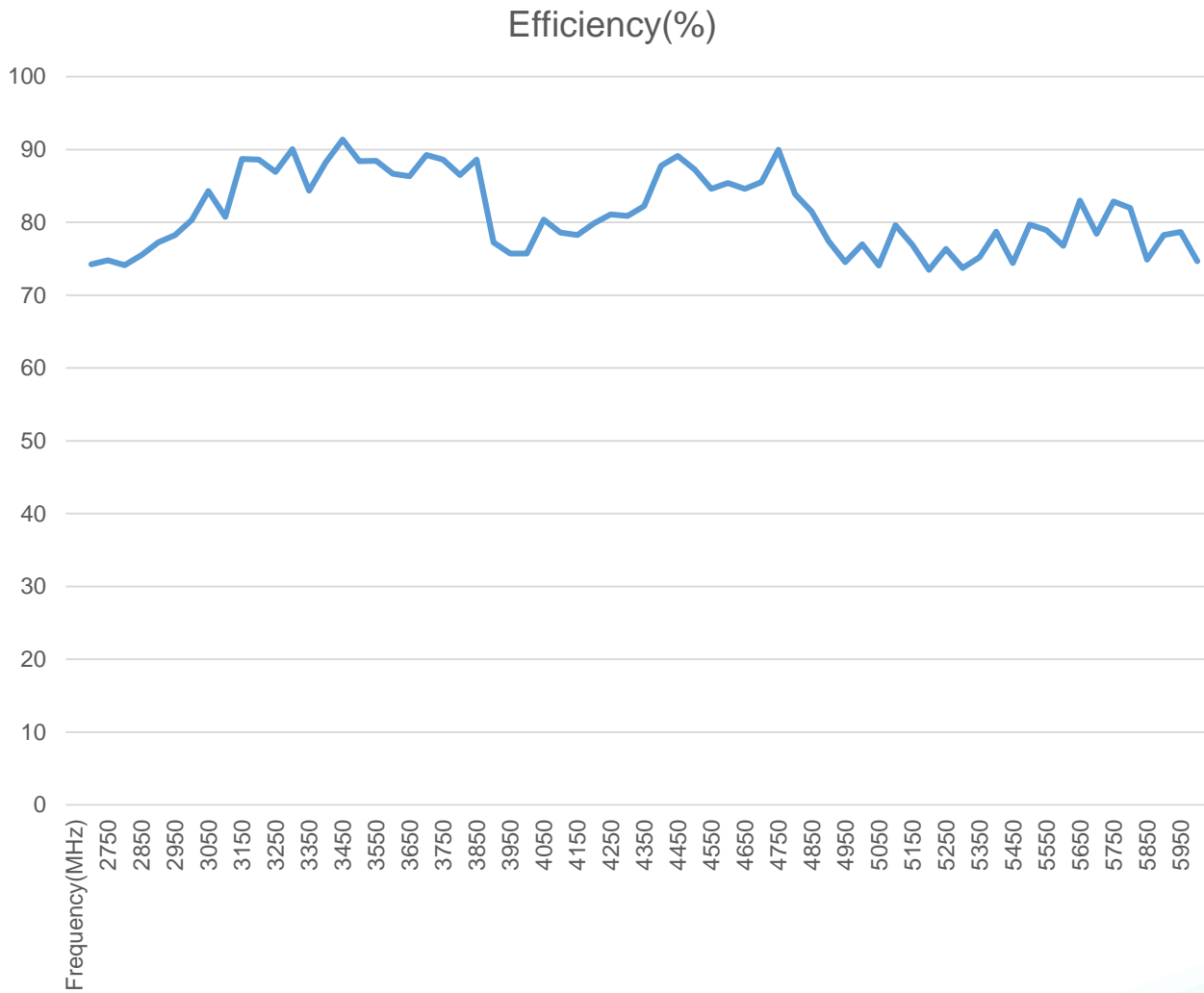
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CHARTS

Efficiency(%)



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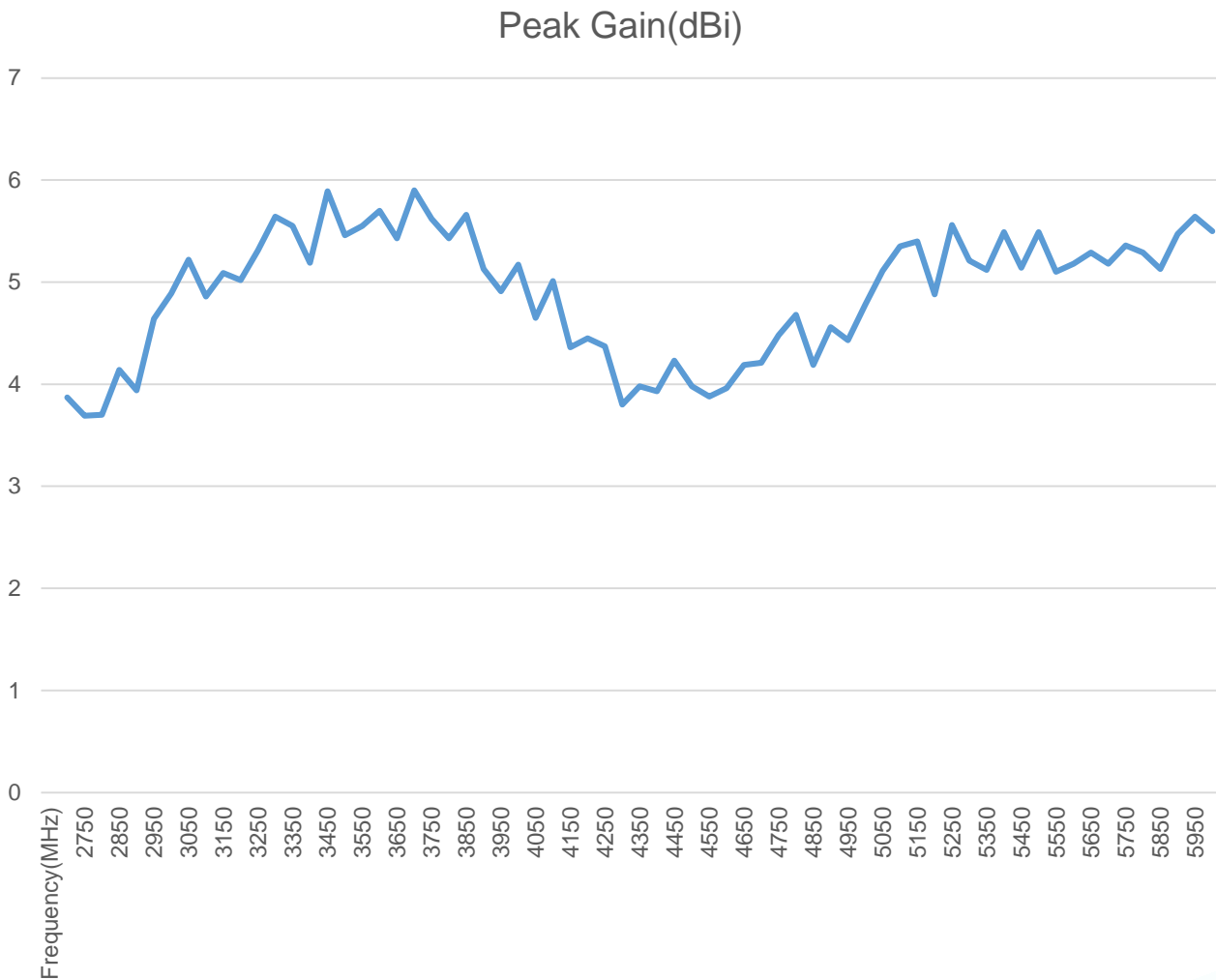
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CHARTS

Peak Gain(dBi)



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CHARTS

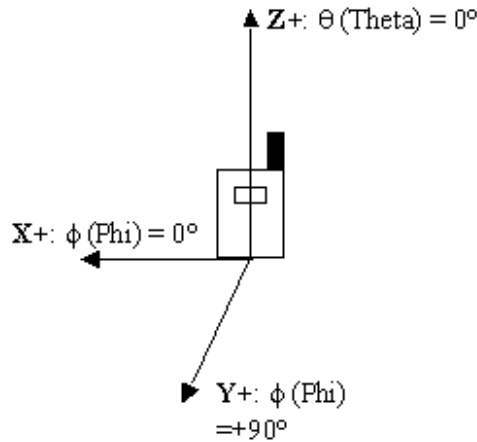
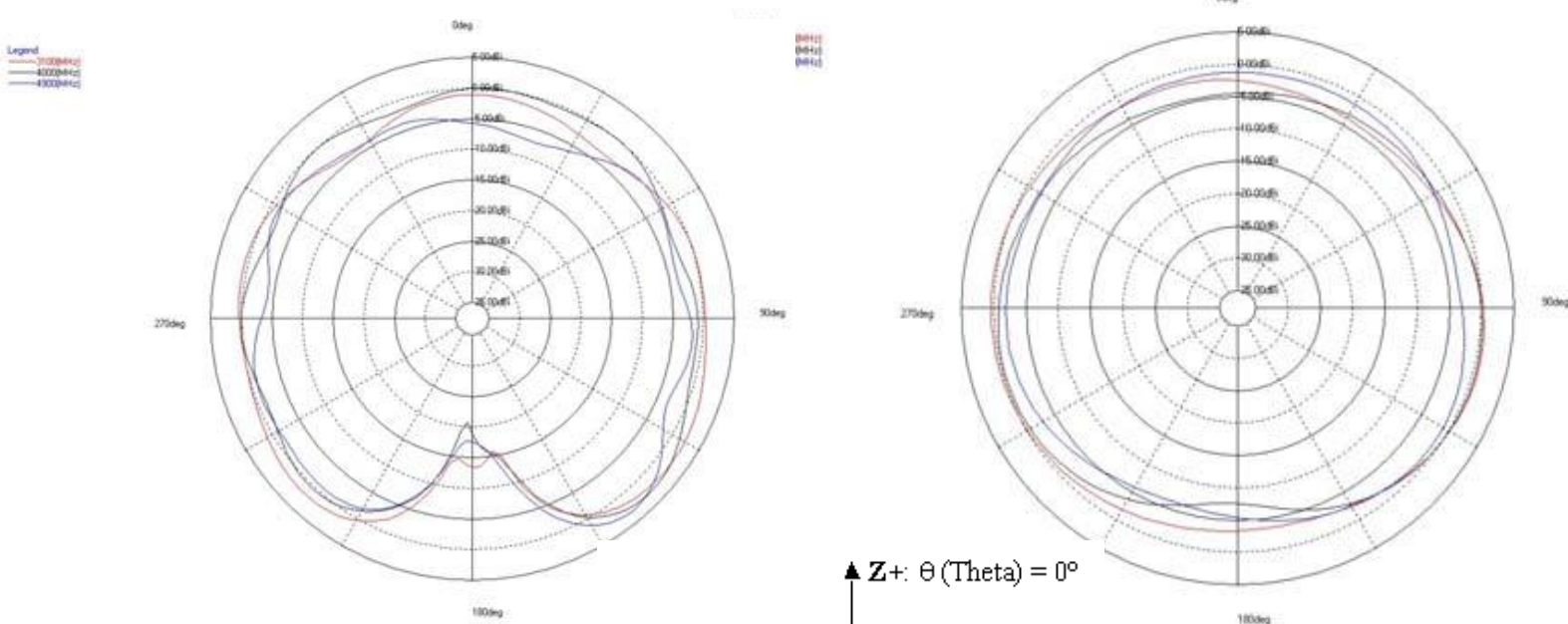
Free Space Radiation Pattern

Elevation Plane

Horizontal Plane

xz-plane

xy-plane



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## PACKAGING

2800pcs antennas per 13" REEL

4PCS REEL PER package box

Total 11200pcs antenna per package box

Package box: 350mm\*350mm\*120mm

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