

SPECIFICATION FOR APPROVAL

CUSTOMER :	
PART NAME :	Patch Quad-Helix Wi-Fi Antenna(3216)
PART NO. :	2.4g
DZZ NO. :	N12-4878-R0A
REV. :	

	MANUFACTURERR SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY:		
DATE:		

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PCB Antenna Assembly

Specification(With housing)

1.Electrical Properties

1.1 Frequecy range.....	2.4G~2.5G
1.2 Impedance.....	50Ω Norminal
1.3 Antenna Type	Monopole
1.4 VSWR.....	<2
1.5 Efficiency	≥50%
1.6 Gain(Peak).....	0dBi
1.7 Radiation.....	Omni
1.8 Polarization.....	Linear
1.9 Admitted Power.....	1W

2.Physical Properties

2.1 Dimensions.....	3.2mm*1.6mm*0.8mm
2.2 Connector Type.....	SMT
2.3 Working Temperature.....	-20°C~+65°C
2.4 Storage Temperature.....	-30°C~+75°C

Antenna Design for Patch Quad-Helix WiFi Antenna

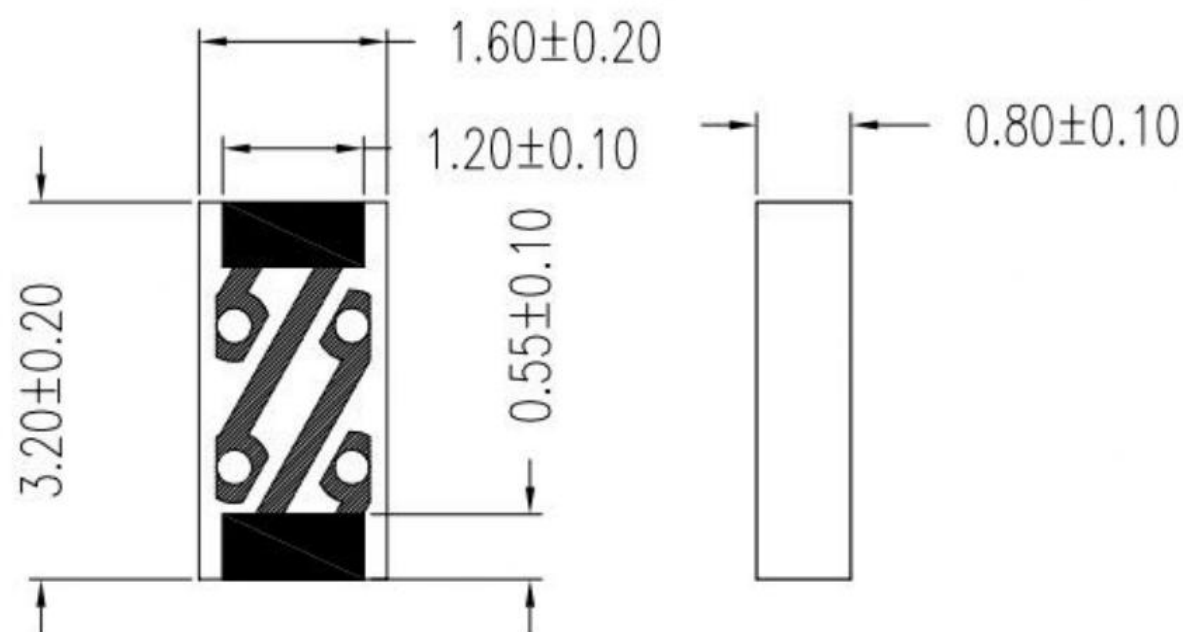
V1.00

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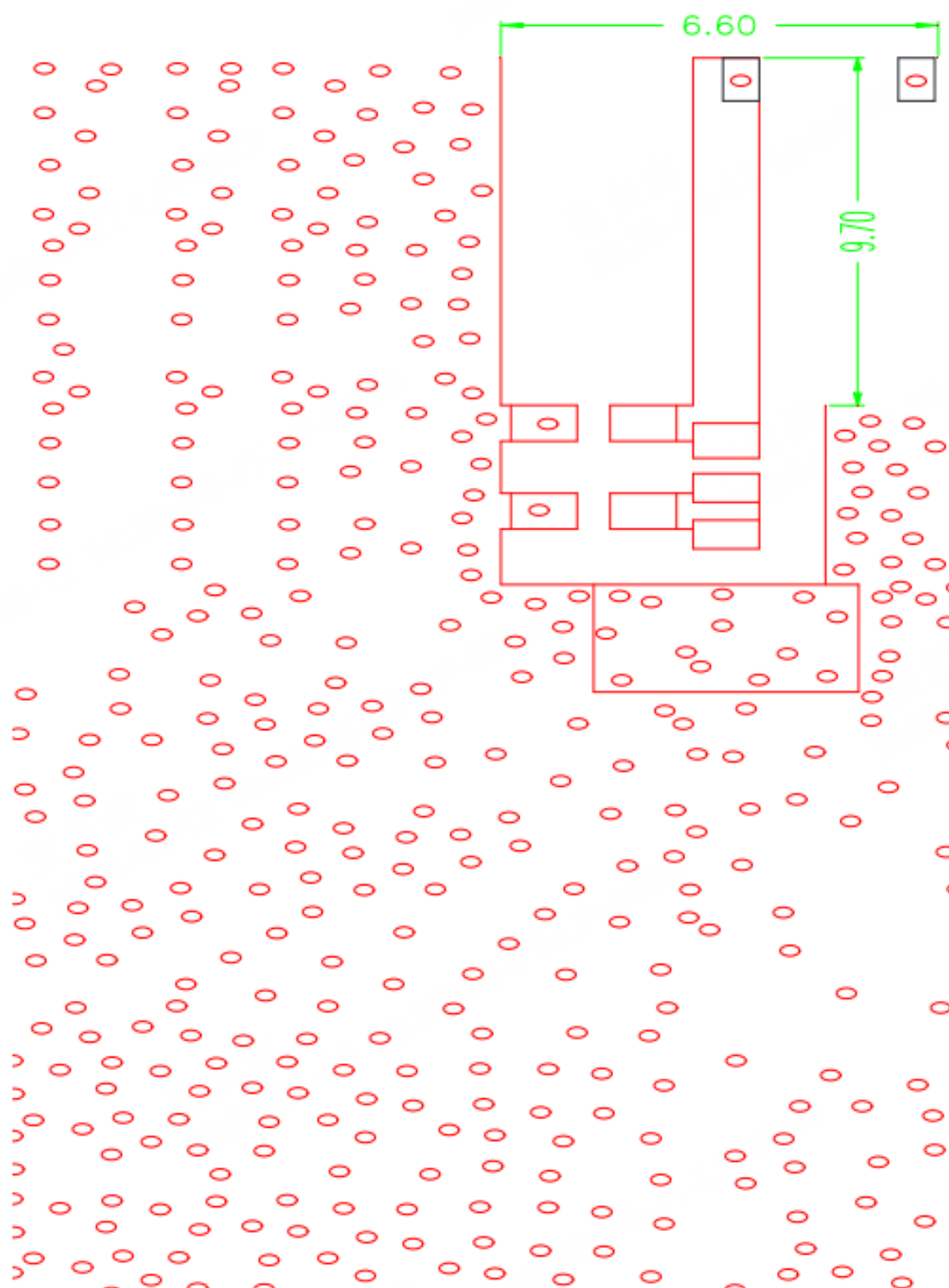
Revised History

[illegible]

1.1 Mechanical instruction

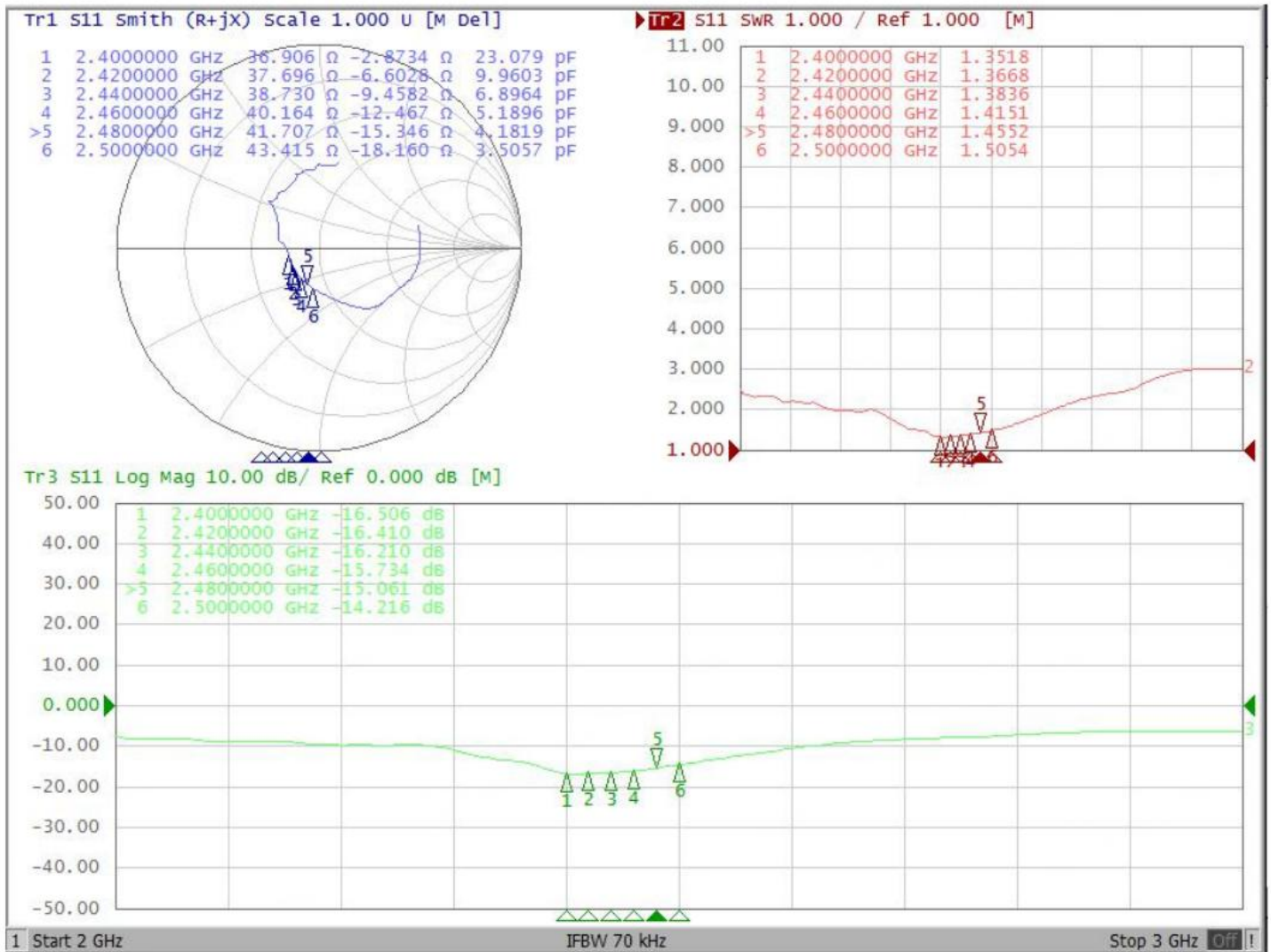


1.2 Antenna clearance size requirement



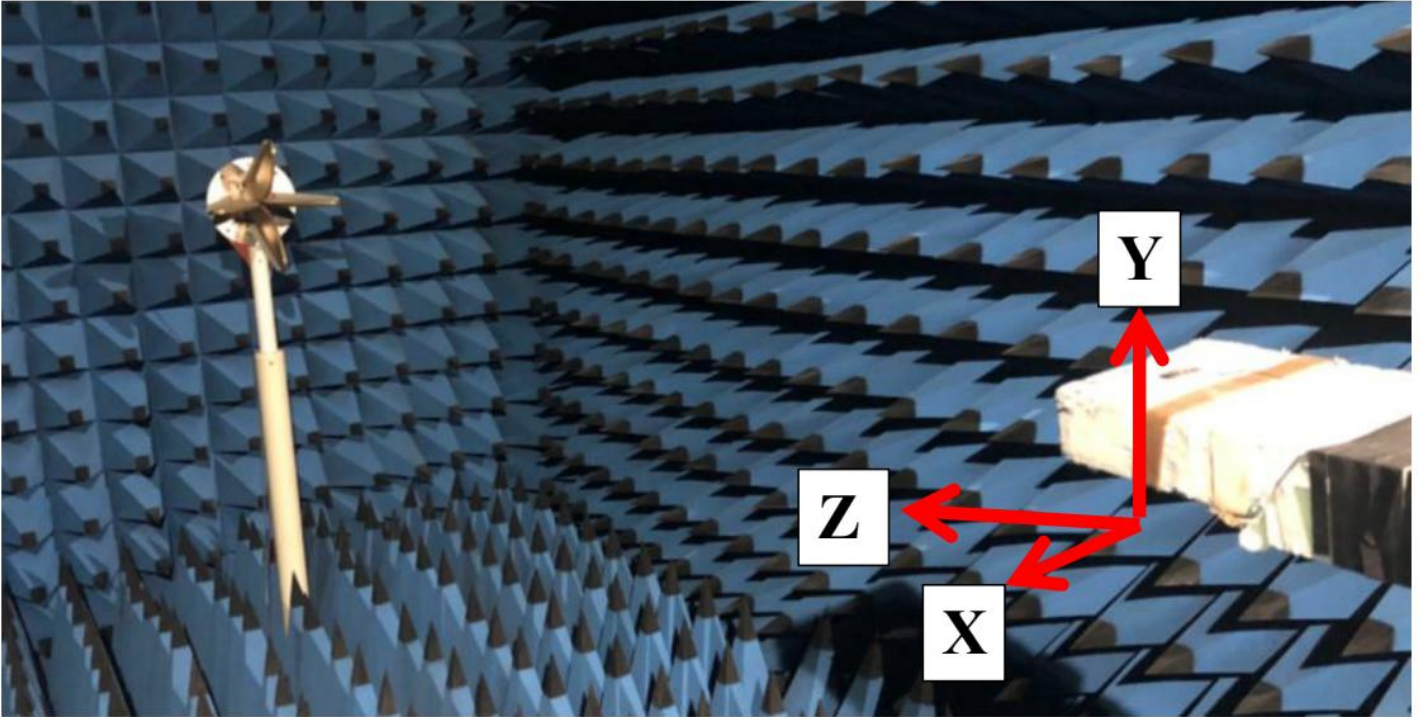
2. Analyzer Measurement

2.1 Ant Patch Quad-Helix WiFi Antenna S11

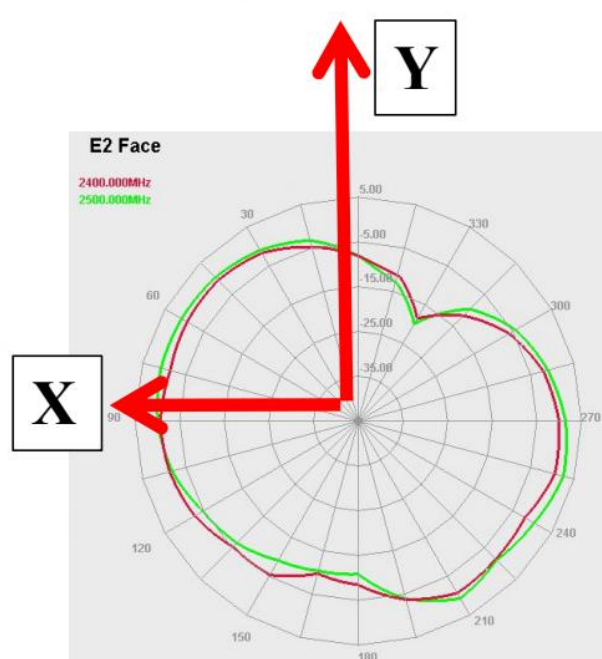
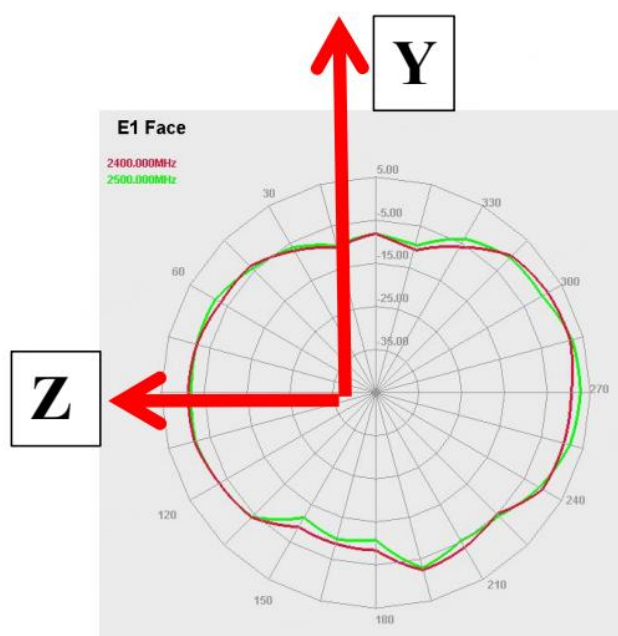
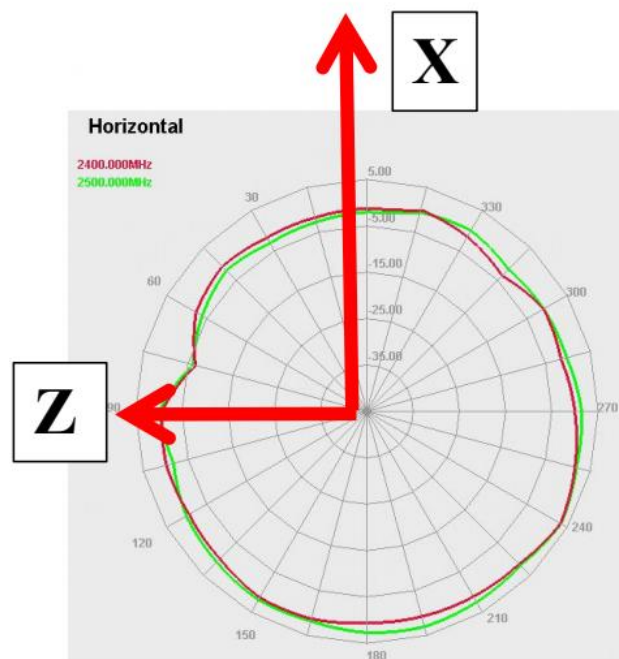
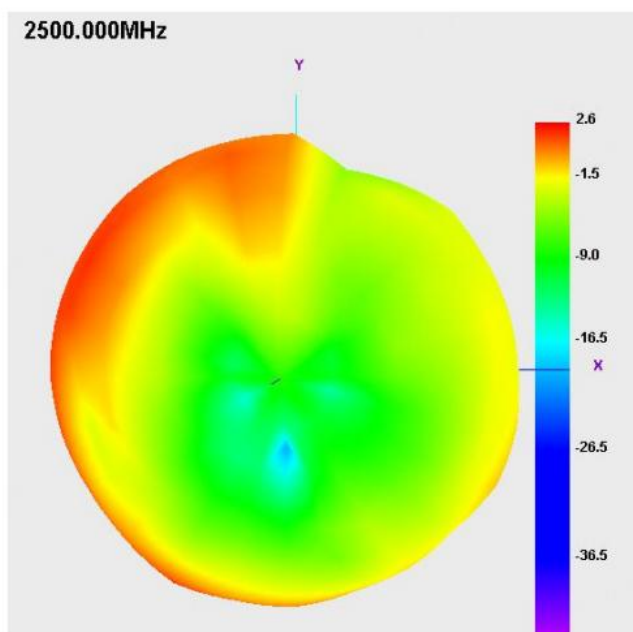


3. Gain & Patterns test results

3.1 Measurement setting



3.2 2D Patterns (2.4G)



4 3D Peak Gain & Efficiency(2.4G)

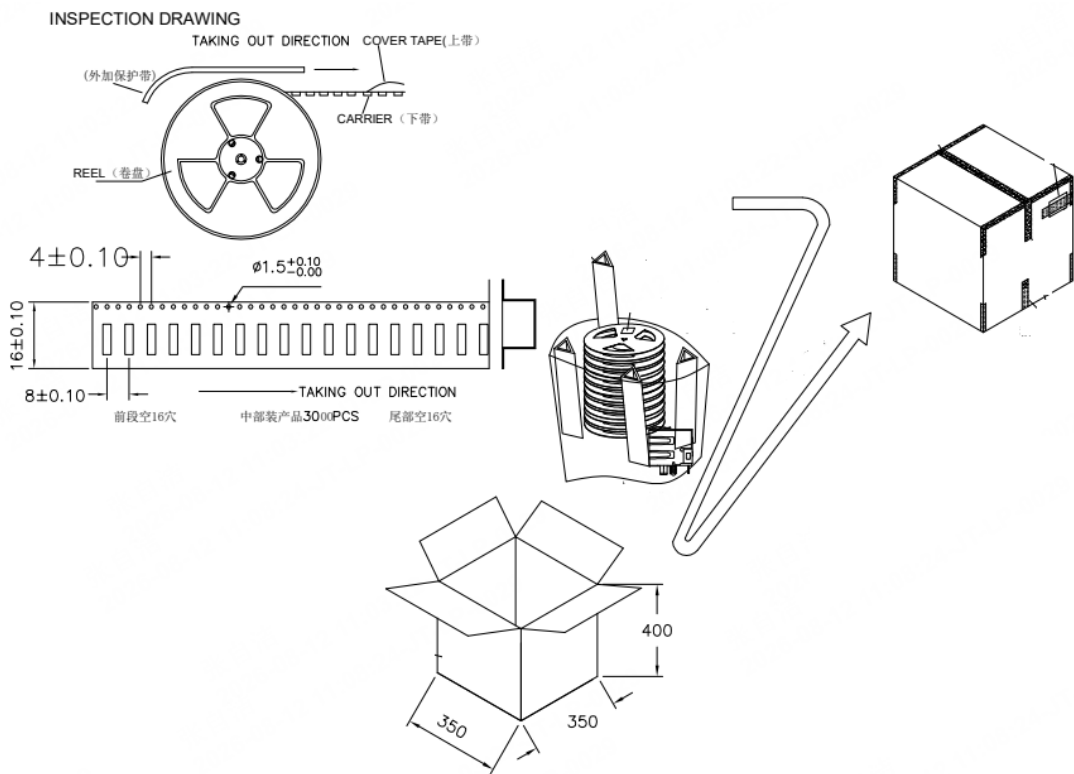
Frequency (GHz)	Efficiency (%)	Peak Gain (dBi)
2400	55.31	1.71
2410	55.52	1.63
2420	55.57	1.69
2430	56.39	1.66
2440	56.99	1.67
2450	57.78	1.68
2460	56.69	1.75
2470	55.54	1.69
2480	54.51	1.82
2490	53.26	1.79
2500	53.97	1.83

Product Packaging Specification

DATA : 2023.8.1

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Product Name : Patch Quad-Helix WiFi Antenna	Revision : A
	Customer :



Approved by : _____ Confirmed by **Feng Huiping** Prepared by **Tian Jin**