



Huizhou Donzhi Electronics Co., Ltd

FOR APPROVAL

Customer Dongguan Zhiyun IOT Co., Ltd.

Part NO. _____

Part Name Oblate Antenna

Pat Models _____

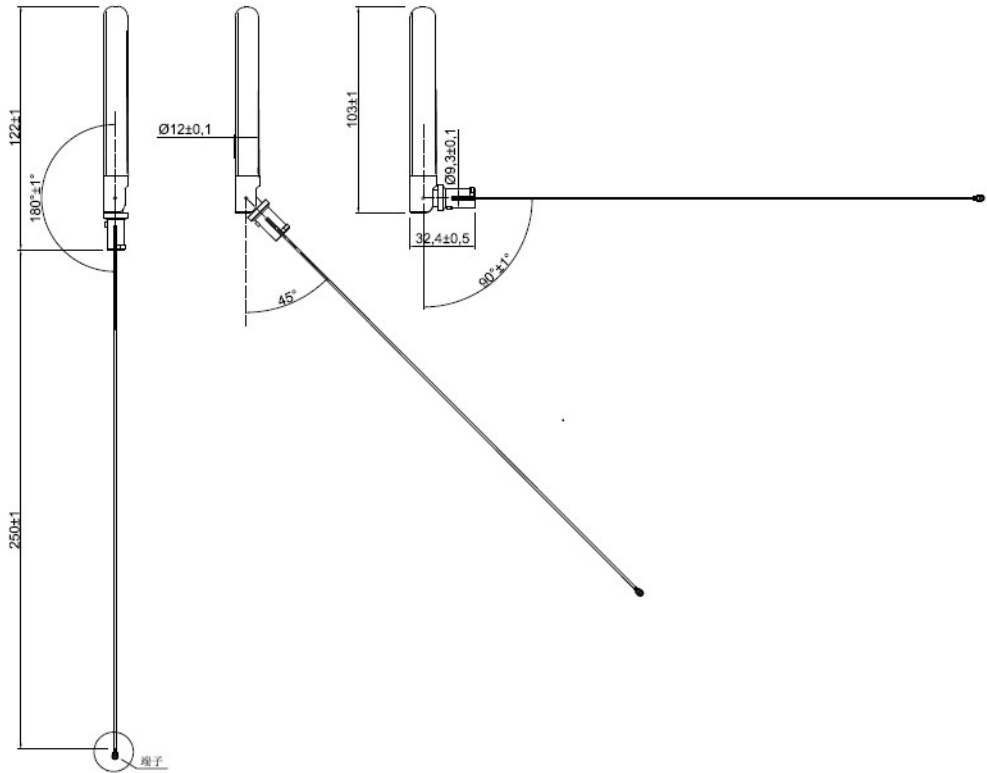
Manufacturer Confirmation Column			
Confirmation seal	Prepared by	Reviewed by	Approved by
	LIU Haohua		

Customer Recognition Column			
Recognition seal	Tested by	Reviewed by	Approved by

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Rev.	Change	Date					
V1.0	First edition	12/1/2023					
Technical Specifications: 1. The plastic should be intact; 2. Circular cut lines should be neat; 3. The tension should be over 3 kg; 4. Welding spots should be rounded and smooth.							
							
Indication of unmarked tolerances:		Product Name	Oblate Antenna	Approved by		 Huizhou Donzhi Electronics Co., Ltd	
0-25	±0.05	Frequency	2400-2500 MHZ	Reviewed by	LUO Gujian		
25.01-50	±0.10	Impedance	50 Ω	Prepared by	LIU Haohua	View	
50.01-100	±0.15	Standing Wave Ratio	≤1.5 dB	Rev.	V1.0	Date	12/1/2023
100.01-200	±0.25	Gain	3DBI	Scale	1:1	Page	1 / 1
200.01-300	±0.30	Enclosure Material	ABS	Path		Unit	MM



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WiFi Antenna Passive Test Data

Freq (MHz)	Efficiency (%)	Freq (MHz)	Max (dB)
2400	77.94	2400	1
2410	80.23	2410	1.28
2420	81.42	2420	1.23
2430	80.35	2430	0.92
2440	79.22	2440	0.62
2450	78.16	2450	0.59
2460	76.75	2460	0.43
2470	74.75	2470	-0.02
2480	74.06	2480	0.09
2490	74.06	2490	-0.05
2500	74.37	2500	0.02

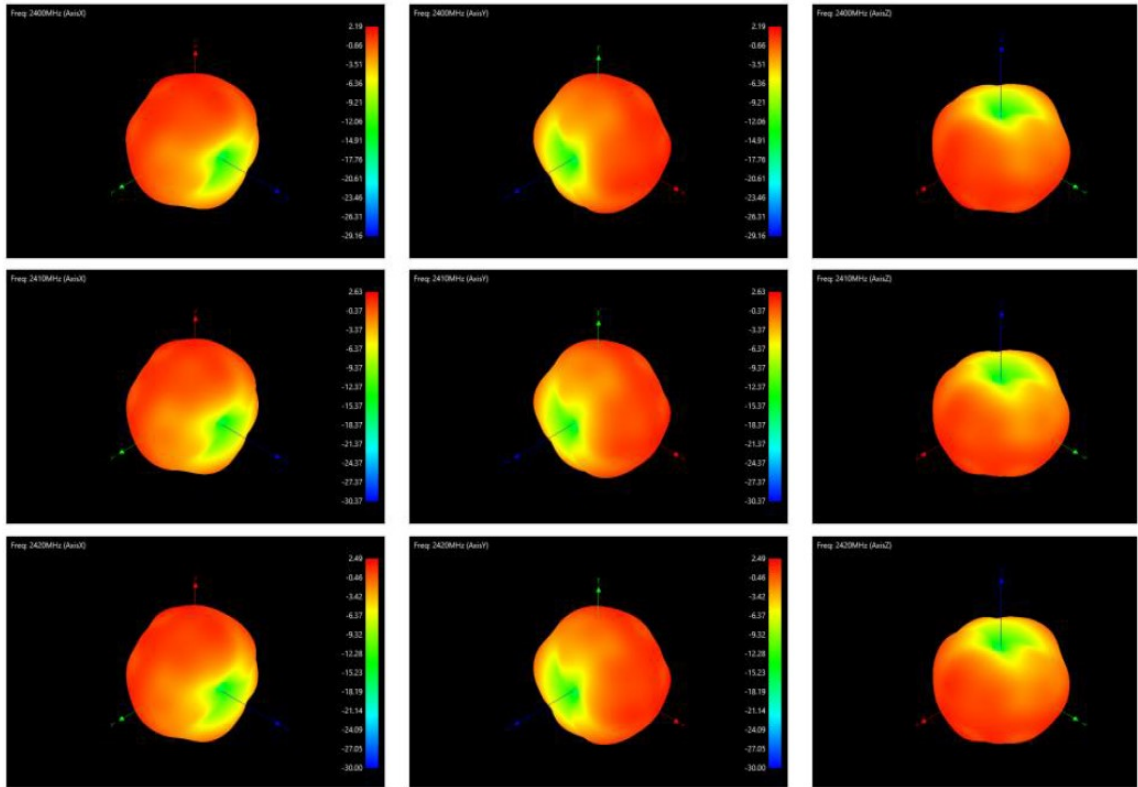
Benefit

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	2.19	-1.08	77.94
2410	2.63	-0.96	80.23
2420	2.49	-0.89	81.42
2430	2.58	-0.95	80.35
2440	2.45	-1.01	79.22
2450	2.22	-1.07	78.16
2460	2.23	-1.15	76.75
2470	1.94	-1.26	74.75
2480	1.92	-1.3	74.06
2490	1.8	-1.3	74.06
2500	1.85	-1.29	74.37

Gain

Phi (°)	Freq (MHz)	Max (dB)	Theta (°)	Freq (MHz)	MaxMin (dB)
0	2400	1.64	90	2400	2.01
0	2410	1.93	90	2410	2.03
0	2420	1.84	90	2420	1.97
0	2430	1.7	90	2430	2.23
0	2440	1.59	90	2440	2.27
0	2450	1.54	90	2450	2.41
0	2460	1.25	90	2460	2.49
0	2470	0.87	90	2470	2.08
0	2480	0.69	90	2480	2.13
0	2490	0.52	90	2490	2.19
0	2500	0.44	90	2500	2.18

3D drawing





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I. Product Parameters

Product Name: 2.4G Oblate Antenna

Mechanical Performance Indicators			
Size:	12**122*103 mm	Wire length:	250 mm
Material:	ABS	Color:	White
		Operating temperature:	-40°C ± 85°C

Electrical Performance Indicators			
Frequency range:	2400–2500 MHZ	Polarization type:	Vertical
Impedance:	50 Ω	Radiation direction:	Omni-directional
Standing wave ratio:	≤ 1.5	Operating voltage:	5 V
Gain:	2DBI	Bandwidth:	100 MHZ

II. Product Picture

