

SPECIFICATION FOR APPROVAL

CUSTOMER NAME: SHENZHEN AONI ELECTRONIC CO., LTD

CUSTOMER P/N:

PRODUCT P/N: H1C65F3D222A

PRODUCT NAME: built-in antenna/EP12301

Description: H1C65F3D222A/2.4G built-in FPC antenna

REV: A

出厂签章

SIGN	APPROVED BY	CHECKED BY	DRAMN

客户签章

SIGN	QE	R&D	PE

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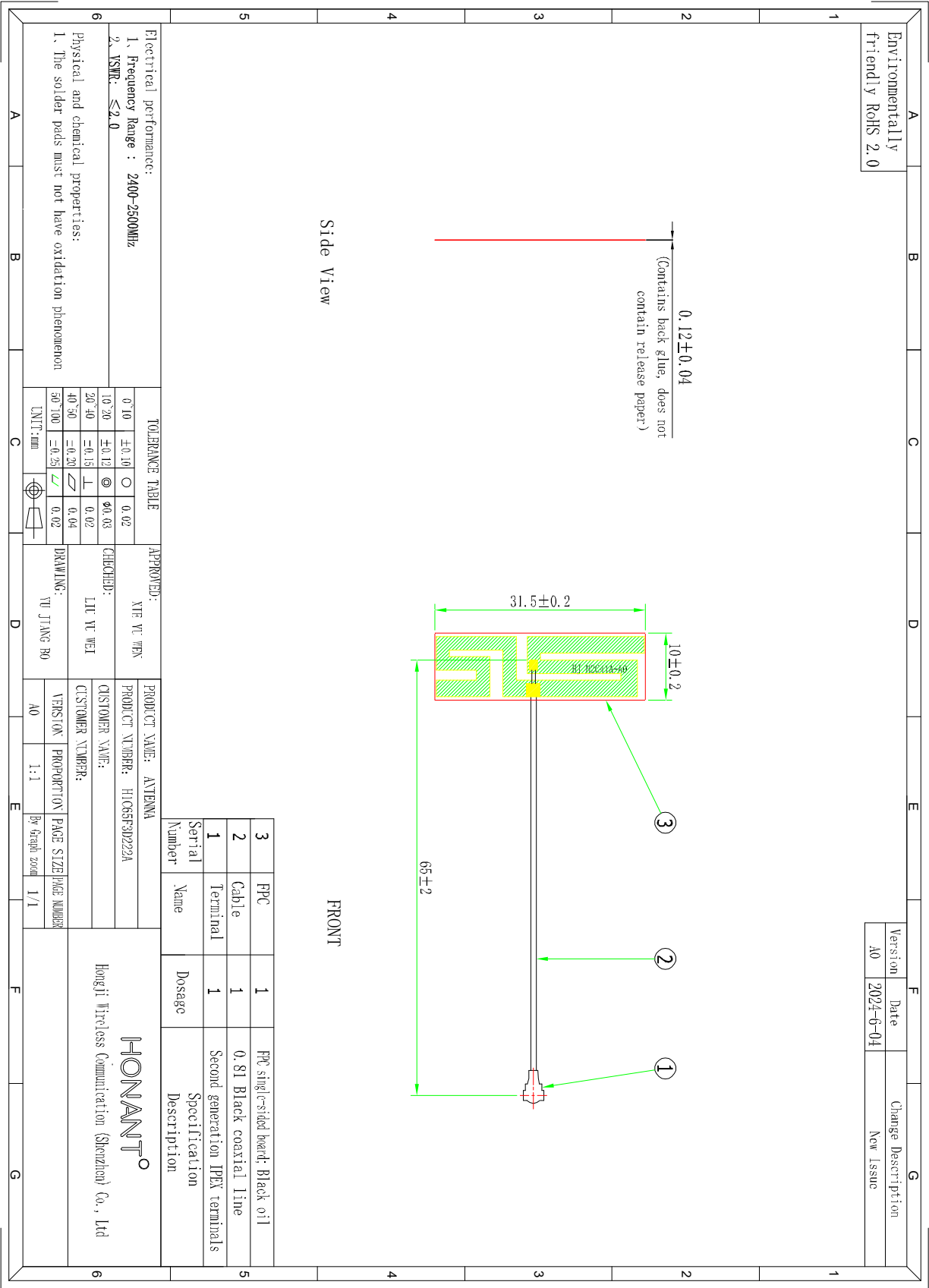
一、 Revision History:

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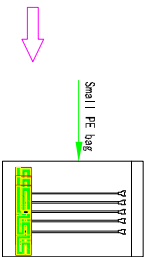
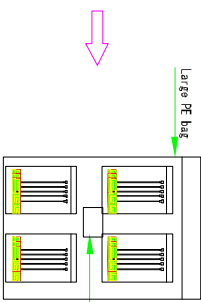
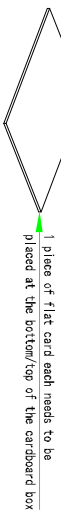
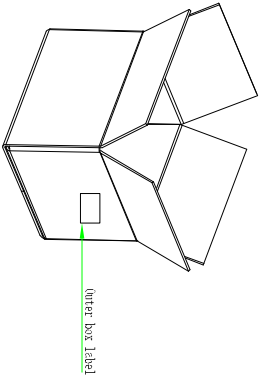
二、 Specification Table:

Main technical specifications	
Frequency Range (MHZ)	2400-2500
Impedance(Ω)	50
Gain(dBi)	4 ± 1
VSWR	≤ 2.0
Polarization	Linear
Radiation	Omni-directional
Connector Type	Cable+IPEX
Physical Properties	
Antenna cover	FPC
Operating Temp	-20℃~+70℃
Storage Temp	-20℃~+60℃

三、Product drawing:



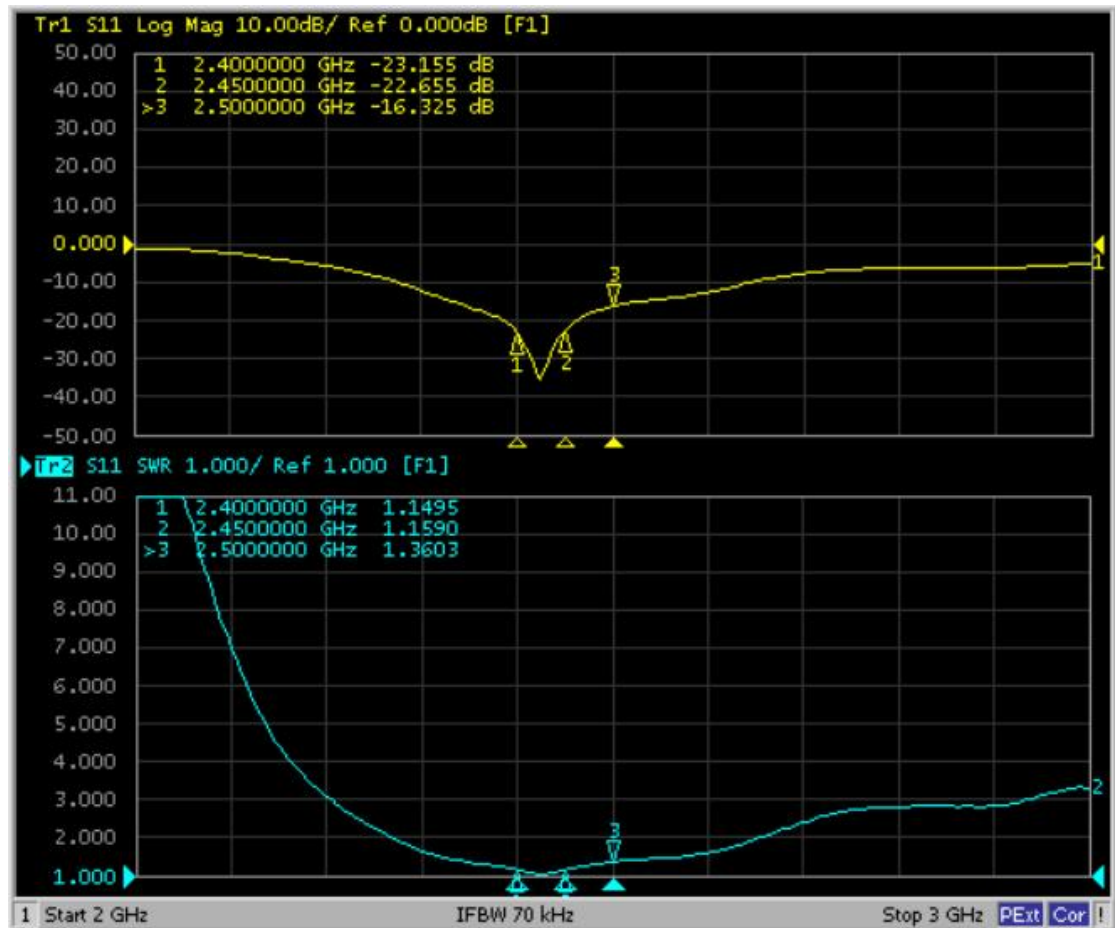
四、Packaging specifications:

Environmentally Friendly RoHS 2.0				Version		Date		Change Description	
				A0		2024-5-1		New Issue	
				A1		2024-7-02		FPC Change version	
Single product				Packaging instructions for small inner bags:					
				1. Each bag contains 200pcs of products.					
									
									
				Packaging instructions for large inner bags:					
				1. Each large bag contains 10 small bags/a total of 2000PCS of products (The number of small bags inside the large bag can be adjusted).					
				2. Each large bag needs to be labeled with a corresponding inner bag label.					
									
				Outer box packaging					
									
				Outer box packaging instructions:					
				1. The bottom/top layer of the cardboard box needs to hold 1 flat card each,					
				2. The outer box needs to be labeled with 1 PCS outer box label at the position shown in the diagram					
				3. Each box contains 10 large bags/a total of 20000PCS of products (The number of large bags in the outer box can be adjusted)					
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									

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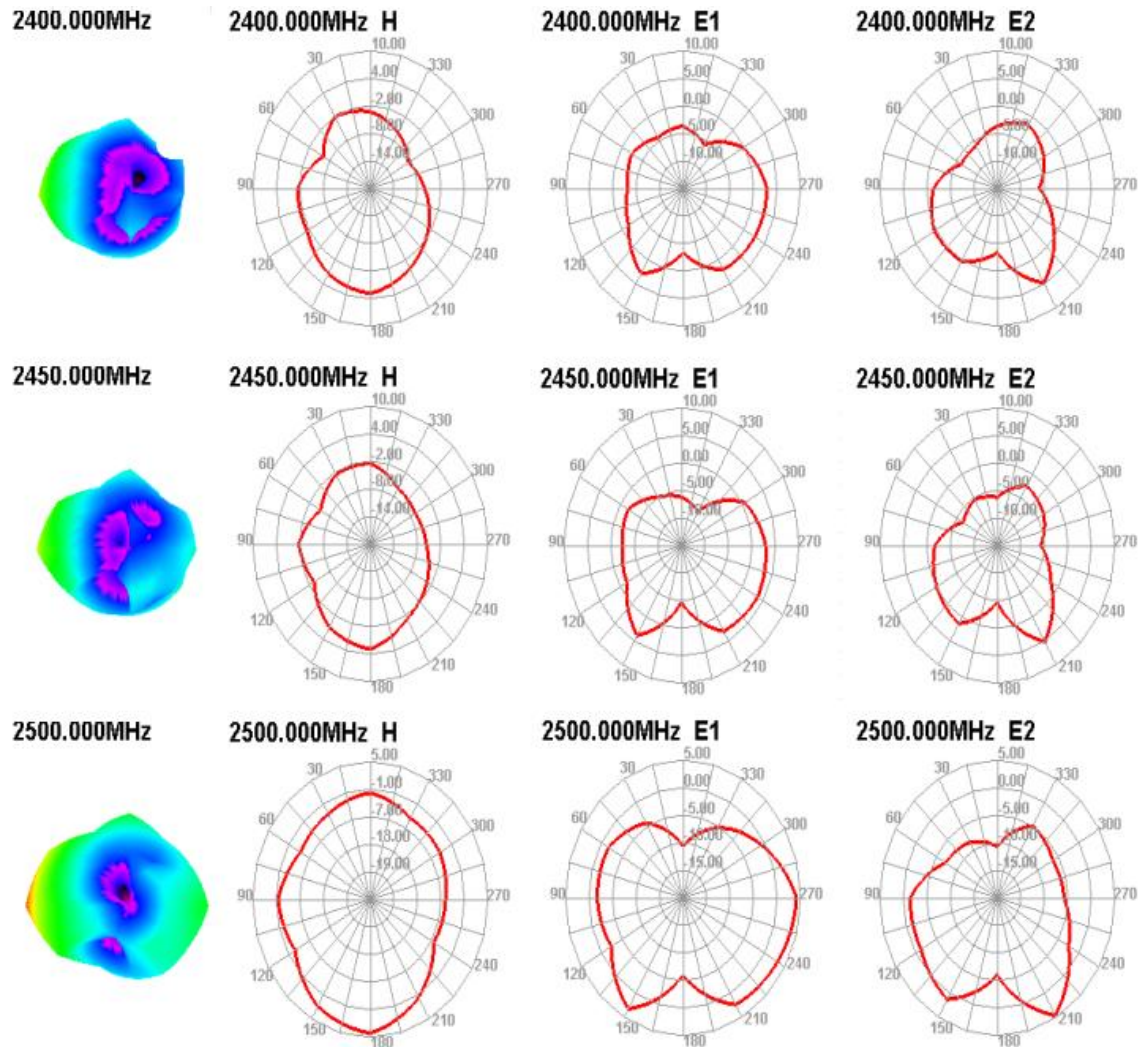
五、Test report:

5.1: antenna S11 parameters



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5.2: Passive pattern of antenna



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5.3: Passive efficiency of antenna

Frequency(MHz)	Gain(dBi)	Effciency (%)
2400	3.73	66.31
2410	3.89	67.35
2420	3.94	68.57
2430	4.05	69.66
2440	4.12	70.89
2450	4.19	71.65
2460	4.15	71.09
2470	4.06	70.33
2480	3.97	69.37
2490	3.91	68.04
2500	3.83	67.72

5.4: Active test report

Active Measurement Report											
Manufacturer				Model							
Item	Tester	Measurement	Azimuths	Elevations	Standard	Band	Channel	Frequency	MaxValue	TIS	TRP
1	Cmw500	Tis_with_Eirp	Every30	Every30	WIFI_B	B_11M	1	2412	-87.17	-80.15	16.35
2	Cmw500	Tis_with_Eirp	Every30	Every30	WIFI_B	B_11M	6	2437	-90.46	-84.19	16.59
3	Cmw500	Tis_with_Eirp	Every30	Every30	WIFI_B	B_11M	13	2472	-86.68	-79.76	14.28

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六、Schematic diagram of the entire machine:

