

SPECIFICATION FOR APPROVAL

CUSTOMER NAME: SHENZHEN AONI ELECTRONIC CO., LTD

CUSTOMER P/N:

PRODUCT P/N: H1NJ2D48A

PRODUCT NAME: built-in antenna/EC08401

Description: H1NJ2D48A/2.4/5.8G built-in steel plate 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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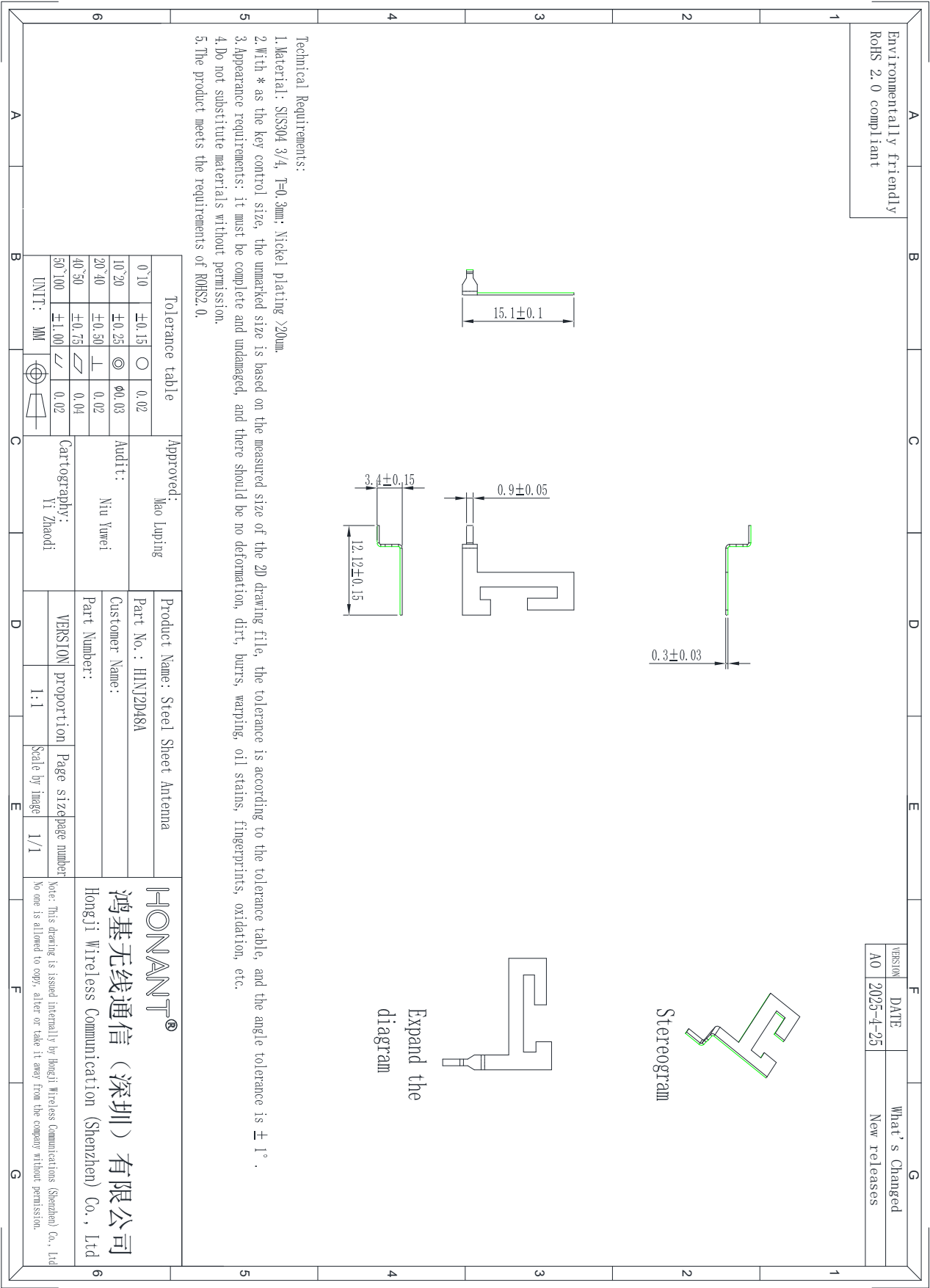
一、 Revision History:

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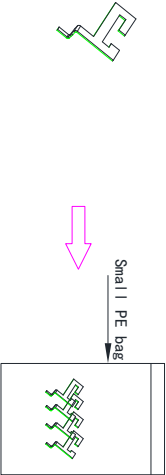
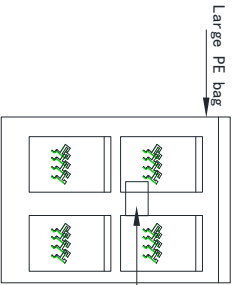
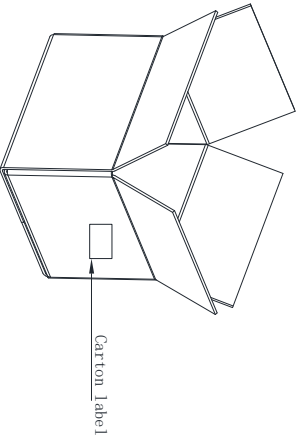
二、 Specification Table:

Main technical specifications	
Frequency Range (MHZ)	2400-2500/5150-5850
Impedance(Ω)	50
Gain(dBi)	3 ± 1
VSWR	≤ 2.0
Polarization	Linear
Radiation	Omni-directional
Connector Type	DIP
Physical Properties	
Antenna cover	SUS304
Operating Temp	-20℃~+70℃
Storage Temp	-20℃~+60℃

三、Product drawing:



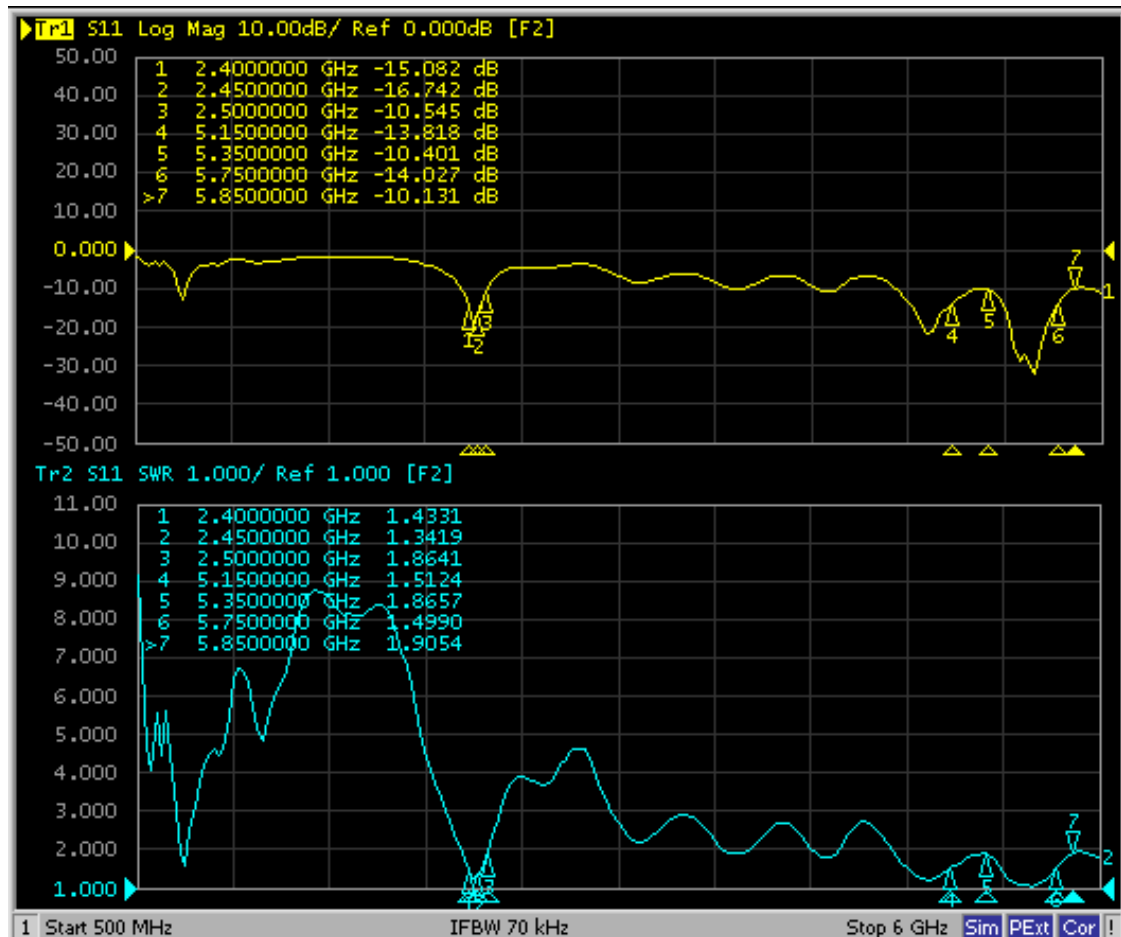
四、Packaging specifications:

A		B		C		D		E		F		G	
Environmentally friendly RoHS 2.0 compliant								version date changes				New releases	
1												1	
Individual products												Small inner bag packaging instructions: 1. Pack 100pcs per bag.	
2												2	
												Large inner bag packaging instructions: 1. Each big bag is filled with 10 sachets /a total of 1000PCS products. 2. Each large bag should be labeled with the corresponding inner bag	
3												3	
												The bottom/top layer of the carton needs to be placed with 1PCS flat cards each	
4												4	
Outer carton packaging instructions: 1. The bottom/top layer of the carton needs to be placed with 1PCS flat cards each. 2. The outer carton needs to be labeled with 1PCS outer carton at the position shown in the picture. 3. Each box contains 10 big bags/a total of 1000PCS products. (This quantity can be adjusted within the range of heavy and transferable amounts)													
5												5	
6												6	
Note: This packaging method is an estimate The actual situation shall prevail at the time of shipment													
Approved: Evin												Product Name: Steel Sheet Antenna	
Audit: Victor												Tool No.: HJN/2048A	
Cartography: Redhat												Customer Name:	
version proportion												Page size page number	
1:1												Zoom by image 1/1	
UNIT: MM												Note: This drawing is issued internally by Hongji Wireless Communications (Shenzhen) Co., Ltd No one is allowed to copy, alter or take it away from the company without permission.	
A												B	
C												D	
E												F	
G												H	

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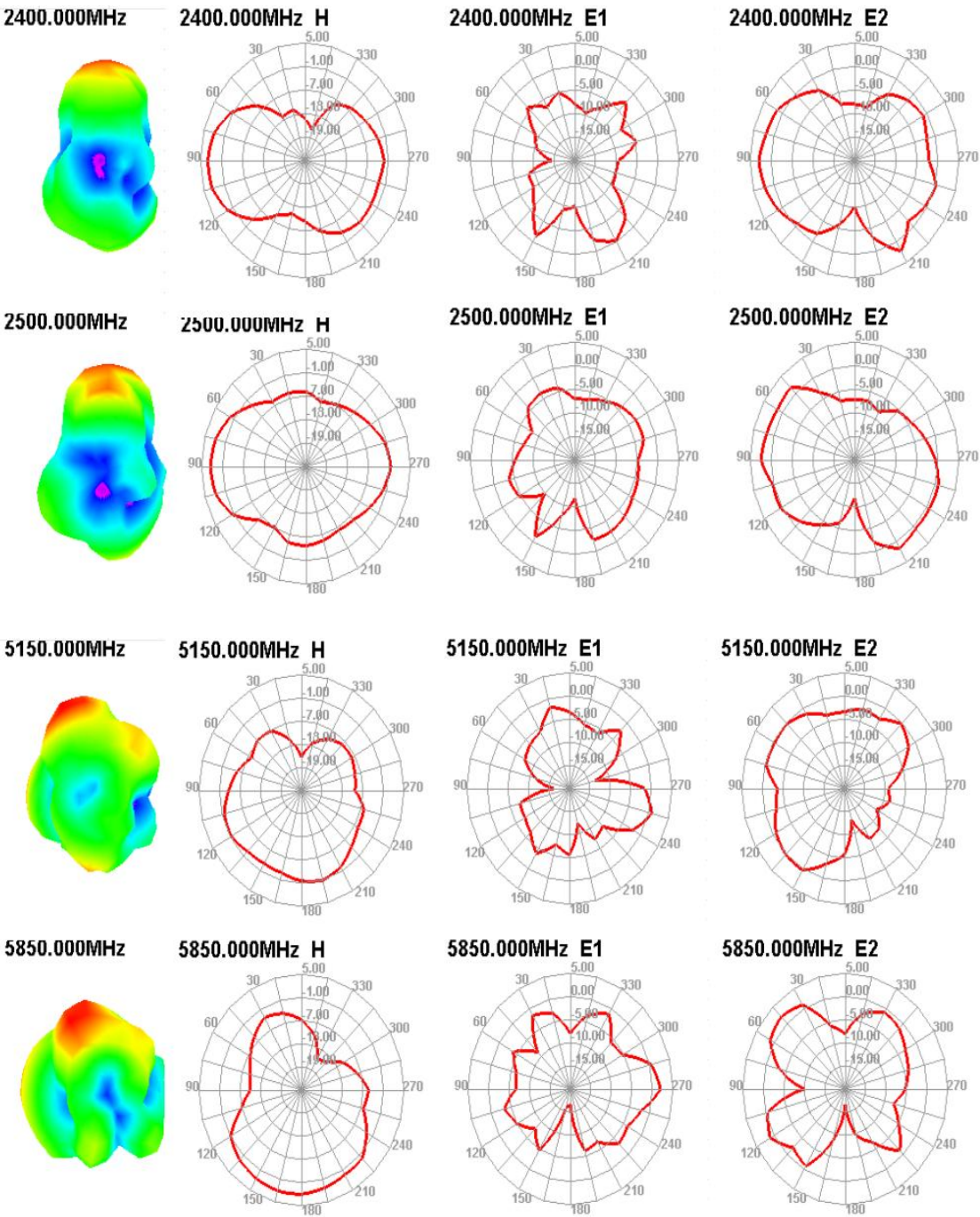
五、Test report:

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)	Efficiency (%)
2400	2.95	53.26
2450	3.16	56.06
2500	2.71	51.12
5150	2.46	45.21
5350	2.93	49.85
5750	2.38	46.63
5850	2.76	51.23

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	-87.31	-81.31	15.14
2	Cmw500	Tis_with_Eirp	Every30	Every30	WIFI_B	B_11M	6	2437	-89.21	-83.28	16.44
3	Cmw500	Tis_with_Eirp	Every30	Every30	WIFI_B	B_11M	13	2472	-90.05	-84.05	15.92
4	Cmw500	Tis_with_Eirp	Every30	Every30	WIFI_A	A_54M	36	5180	-76.75	-71.02	15.18
5	Cmw500	Tis_with_Eirp	Every30	Every30	WIFI_A	A_54M	165	5825	-79.04	-73.25	17.87

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六、Schematic diagram of the entire machine:

