



SPECIFICATION

APPLICATION FOR APPROVAL

CUSTOMER : Wuhan Qiwu Technology Co.,Ltd.
CS P/N : SRmini
PART NAME :
DEVE NO. : AUK02680
PART NAME :
DATE : Aug.1,2025

客户确认:			
(RF Engineer)	(Structural Engineer)	(R&D Manager)	(Product Manager)
Auden Technology (Kunshan) Co., Ltd.			
Electrical Engineer	(Structural Engineer)	(project)	(Approval)
Lv Jie	Yuan Luyang	Zhang Yuanqin	Zhu Min

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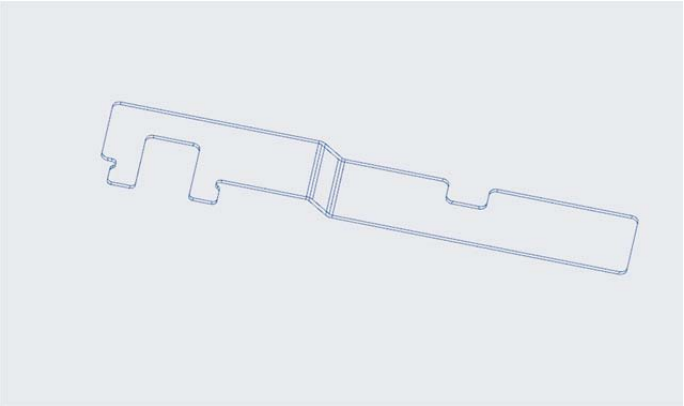
INDEX

1. Cover
2. Index
3. The Basic Parameters
4. RF Performance Test Report
5. Product Drawing

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The Basic Parameters

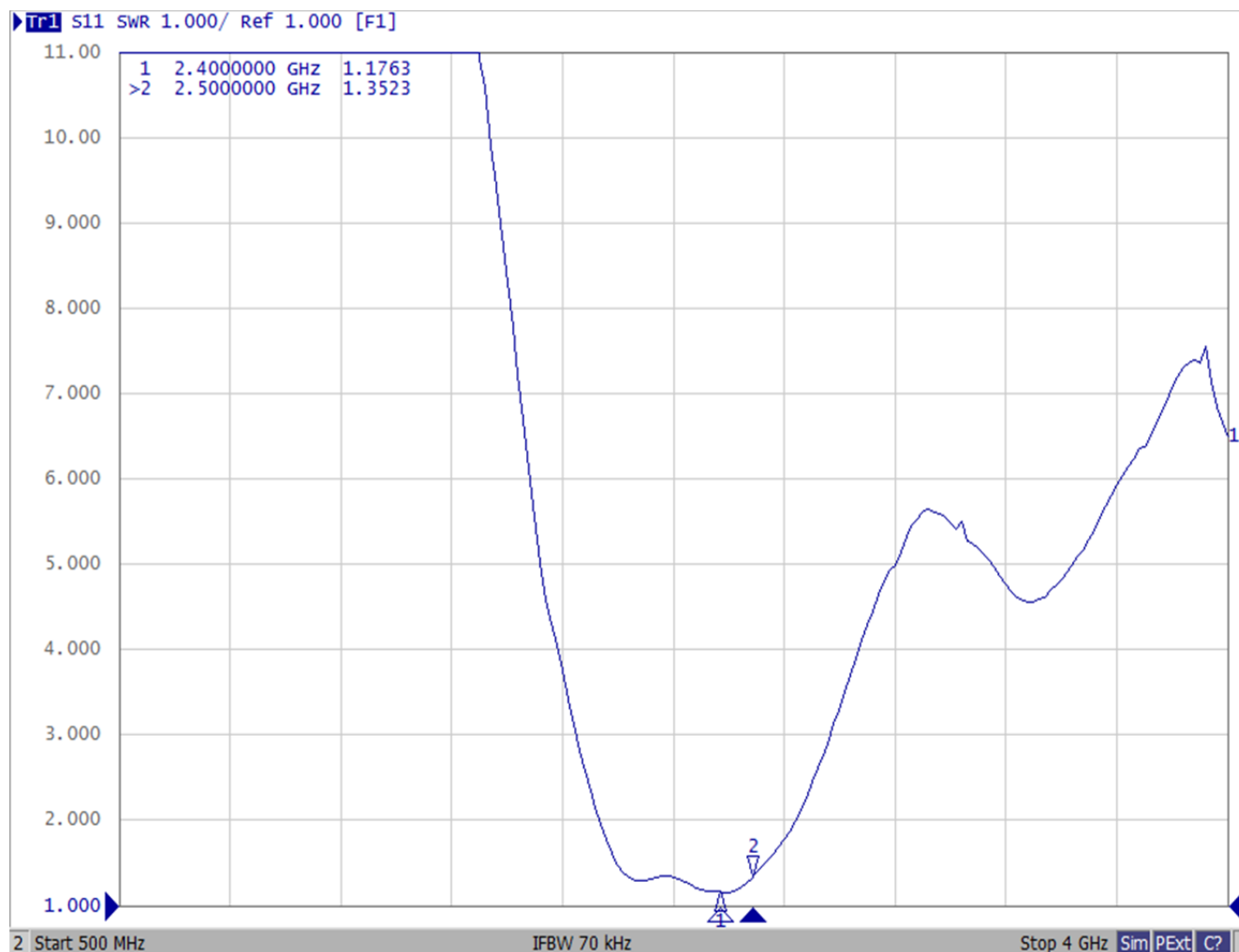
Item	Specifications
Antenna structure	Steel sheet
Frequency	2400MHz-2500MHz
S11	≤ -10.62
Gain	3.69
Polarization	Linear polarization
Impedance	50Ω
Plastic material	none
joint type	none
Operation temperature	-40°C to 85°C
Storage temperature	-40°C to 85°C
humidity	Non-condensing 65°C 95% RH
Antenna Pictures	

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RF Performance Test Report

S11&Smith



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Passive Test Data Efficiency & Gain

FRE	Efficiency-%	Gain(dBi)
2400	40.57	3.69
2410	40.21	3.63
2420	40.08	3.63
2430	39.94	3.59
2440	39.46	3.53
2450	38.91	3.35
2460	38.75	3.32
2470	38.79	3.33
2480	38.05	3.11
2490	36.35	2.75
2500	35.01	2.47

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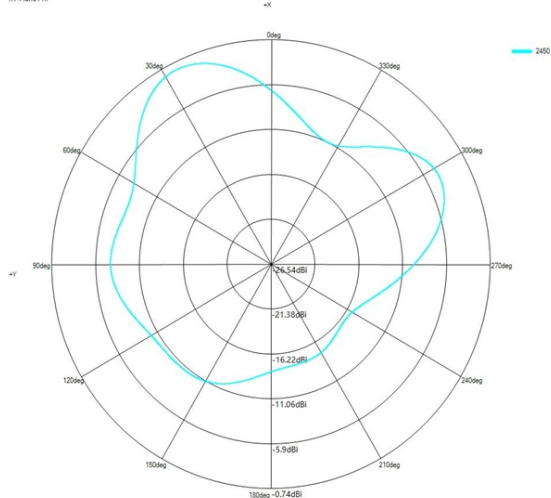
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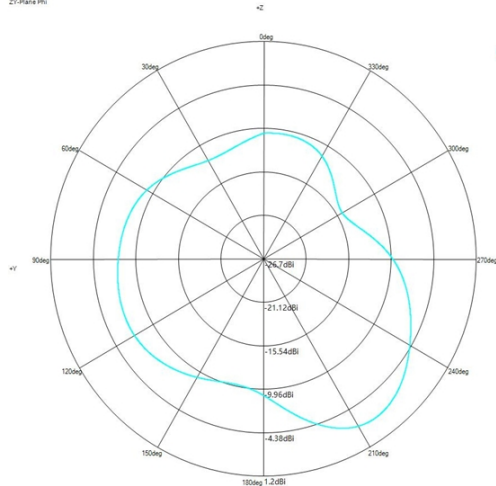
No perfect status, Always seek for better !

2D Radiation pattern

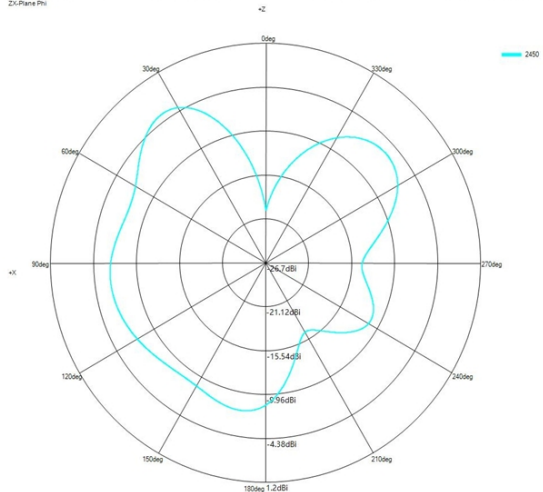
Freq(MHz) 2450 XY-Plane Max. -1.58941441 Ave. -7.613132866 Min. -15.56007749



Freq(MHz) 2450 ZY-Plane Max. -1.91748501 Ave. -7.536330011 Min. -14.82270258



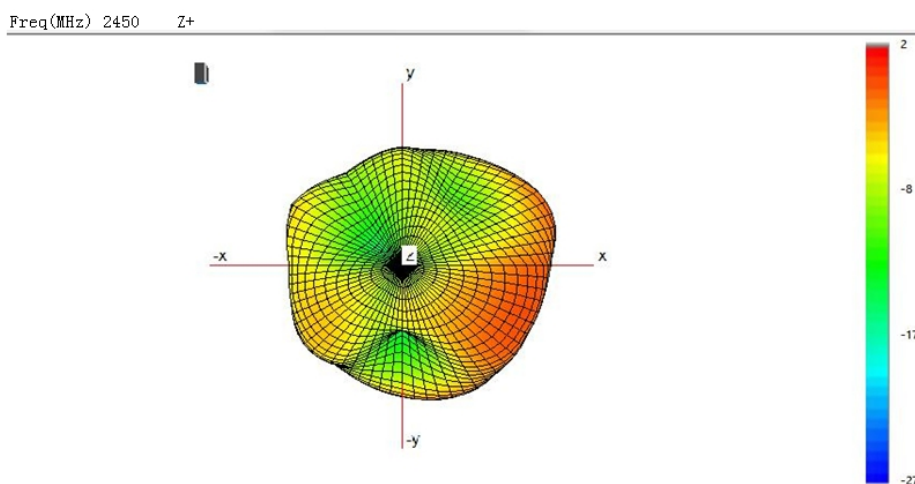
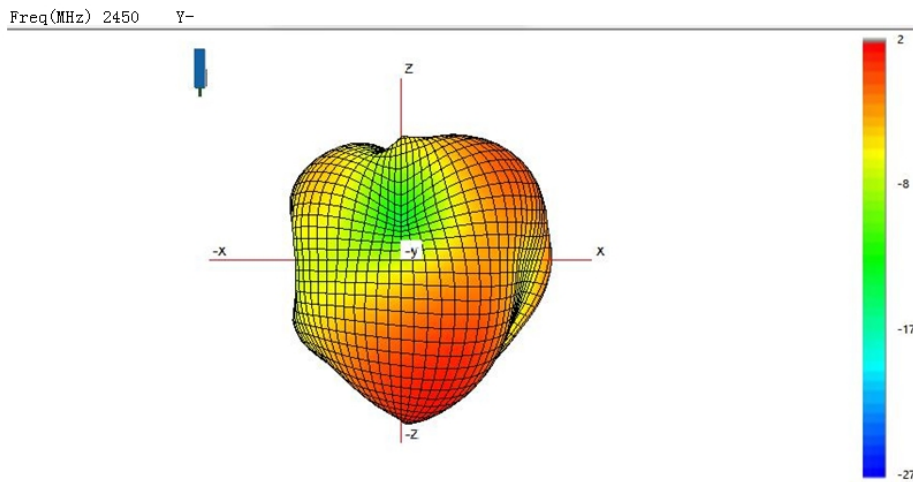
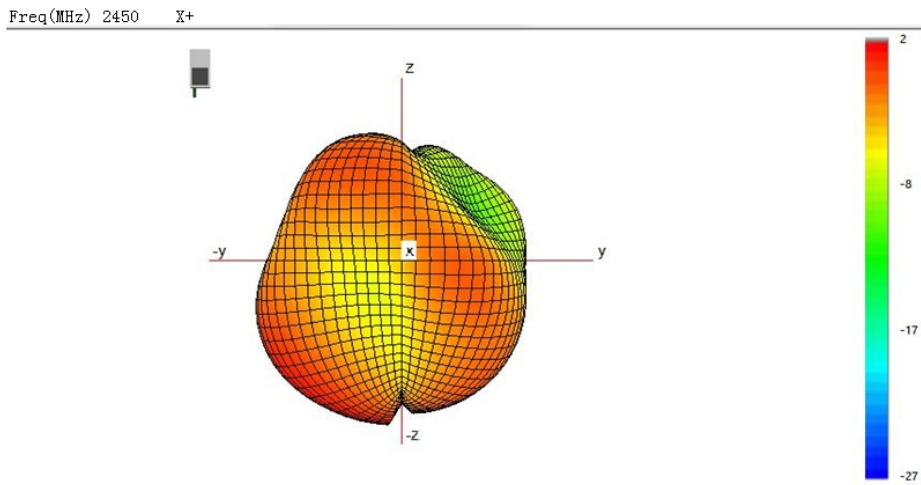
Freq(MHz) 2450 ZX-Plane Max. -3.84352276 Ave. -8.610250555 Min. -20.00929352



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3D Radiation pattern



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No perfect status,Always seek for better !

Full size measurement report

Vendor (供应商)						Part NO (料号)		A63532-90										Tool Number (模号)		Cav. Number (穴数)		Unit (单位)		Comments (设计者签字)					
						Part Name (零件名称)		ALU02680B*																					
日期		2024/12/23				MEASURED DIMENSION (实测尺寸)										% TOLERANCE USED (公差使用百分比)		DISPOSITION						ACCEPTABLE VARIANCE					
DIM. #	DIMENSION	DRAWING ZONE	+ TOL.	- TOL.	NOTE	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6	SAMPLE 7	SAMPLE 8	SAMPLE 9	SAMPLE 10	UPPER	LOWER	0%-25%	25%-50%	50%-75%	75%-100%	100%+	Re-Measure	Accept	Fix Tool	Accept With Variance	DIMENSION	+ TOL.	- TOL.
1	22.8	1A	0.1	0.1		22.744	22.723	22.730	22.725	22.782						0%	77%			X									
2	3.25	2A	0.05	0.05		3.262	3.244	3.271	3.259	3.265						42%	12%	X											
3	1.5	3A	0.05	0.05		1.509	1.498	1.514	1.502	1.493						28%	14%	X											
4	1.3	4A	0.05	0.05		1.306	1.313	1.302	1.325	1.311						50%	0%	X											
5	1.2	5A	0.05	0.05		1.197	1.184	1.180	1.196	1.188						0%	40%	X											
6	2.3	6A	0.05	0.05		2.351	2.327	2.349	2.308	2.332						42%	44%	X											
7	4.73	7A	0.05	0.05		4.715	4.725	4.708	4.719	4.713						0%	44%	X											
8	1.20	8A	0.06	0.06		1.172	1.249	1.193	1.199	1.205						82%	47%			X									
9	0.20	1	0.05	0.05		0.211	0.215	0.206	0.196	0.199						30%	8%	X											
10	14.63	1	0.1	0.1		14.600	14.606	14.647	14.615	14.633						17%	30%	X											
11	0.48	2	0.05	0.05		0.485	0.495	0.486	0.489	0.493						30%	0%	X											
12	1.75	3	0.05	0.05		1.760	1.762	1.769	1.734	1.756						38%	32%	X											
13	2.1	4	0.05	0.05		2.127	2.082	2.116	2.125	2.113						54%	36%			X									
核准： 李金						审核：										制表：纪沅坤													

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Test Report



Auden Techno(KUNSHAN)CO.LTD

Test Report

client Server:Yaoden
 Mode:AUK02680B*
 Test type:R&D
 First batch:Mass production
 Product materials:A63532-90
 Petition Unit:Kunshan Structure Department
 Petition Numbers:QA-QE-20241223001
 Sample Amount:5PCS
 Finishing Date:2024/12/25
 Test According as:Based on/Test Application Form
 Conclusion:

NO	(Test Result)	(Test Result)	(Q' ty)	NO	(Test Result)	(Test Result)	(Q' ty)
1	Salt spray test	☒ PASS ☐ NG	5PCS	4		☐ PASS ☐ NG	
2		☐ PASS ☐ NG		5		☐ PASS ☐ NG	
3		☐ PASS ☐ NG		6		☐ PASS ☐ NG	

Approved by: Li Jin

Reviewed by:

 Reporter: Ji Yuankun
 Form No.: AD-WI-0016-08A

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QA-QE-20241223001

AUK02680B*

1. Test items:

Salt spray test (Appearance: The rust area of the metal surface of the product is less than 0.5%. After cleaning and wiping, the surface of FPC/shrapnel/LDS, etc., if the mildew, rust, oxidation, blackening and other abnormalities disappear, it meets the requirements, but the coating is not allowed to fall off.

There is no rust, coating peeling, blistering and other undesirable phenomena on the surface. If the customer has requirements, it will be determined according to the customer's requirements.

Appearance of bare copper foil: The bare copper area of the copper foil is allowed to redden, but rust, oxidation, blackening, mildew, rust, etc. are not allowed, and the surface is not allowed to fall off, blistering and other defects. If the customer has requirements, it will be determined according to the customer's requirements.

Testing conditions:

1. Laboratory temperature: $35 \pm 2^\circ\text{C}$; humidity $> 85\% \text{RH}$

2. Pressure barrel temperature: $47 \pm 1^\circ\text{C}$

3. Salt water barrel temperature: $35 \pm 1^\circ\text{C}$

4. Pressure: $1 \pm 0.1 \text{ kgf/C m}$

5. Spray volume: 1-2ml/80C m/hr

6. PH value: 6.5-7.2 ml

7. Concentration of salt water: $5 \pm 1\%$

8. Test time for PCB/FPC/LDS, etc.: 48H

9. Test time for other metal/ceramic bodies or finished ceramic products such as shrapnel: 24H

10. The sample cannot be directly sprayed by smoke, and the sample is placed at 15° - 30° from the vertical direction, and as much as possible at 20°

11. After the test, rinse the product with clean water, dry it immediately with a hair dryer, and check the appearance of the product after placing it in a dry environment at room temperature for more than 2 hours

III. Test content:

3.1 Appearance:

Conditions: Test/judge according to the Antenna Mechanism Test Specification.

Sample	01	02	03	04	05				Notes
Before	OK	OK	OK	OK	OK				No abnormality on the surface of the product
After	OK	OK	OK	OK	OK				No abnormality on the surface of the product

3.2 Mechanism

Conditions: Test/judge according to the Antenna Mechanism Test Specification.

Item	Specifications	tolerance	Measured value				Detection tools	determination	Remark
Tensile force (kgf)	N/A								
Torque (kgf)	N/A								
Drop	N/A								

3.3 Dimensions:

Conditions: Measure/judge based on the dimensions on the drawing.

A Dimensions	Specifications	Tolerances	Measured values				Testing tools	Judgment	Remarks
N/A									

3.4 Adhesion test:

Test/judge according to the "Baige Test Specification".

Sample number	Standard	Measured value	Testing tool	Judgment	Remarks
1	N/A				
2	N/A				

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3	N/A				
4	N/A				
5	N/A				

4. Test results/explanation: After the salt spray test, it was judged according to the salt spray test standard in the reliability test specification standard, and the result was OK.



Before the test

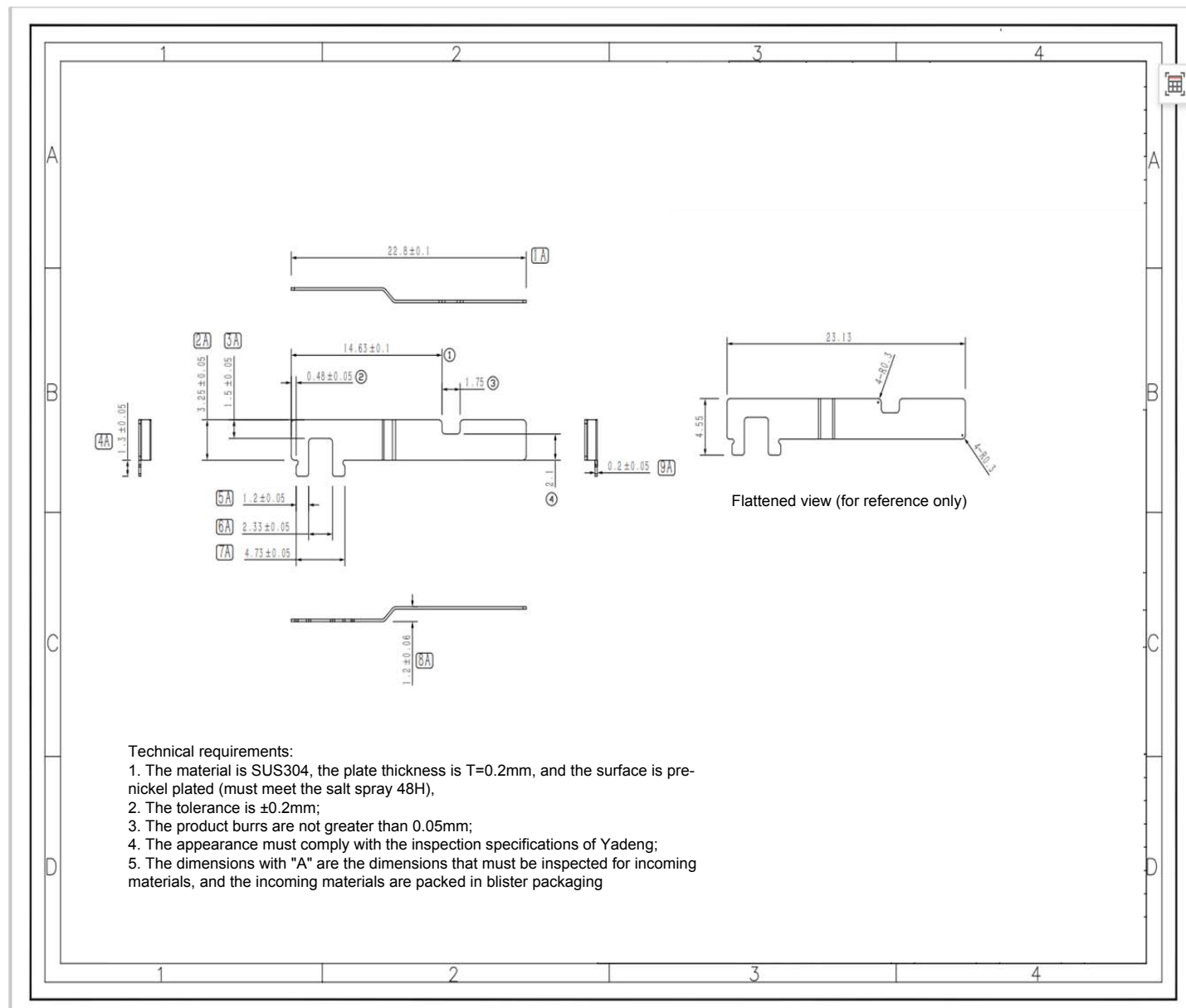


After the test

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Product Drawing



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