

Shenzhen Jiexuntong Wireless Technology Co., Ltd

Antenna Recognition Letter

customerName: Lingdu

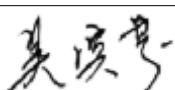
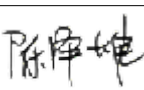
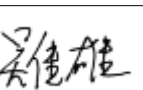
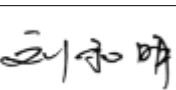
projectmodel: P610

our part number:20007000014

Antenna specifications: shrapnel antenna

Date of issuance: June 30, 2023

Manufacturer recognition column:

Project Preparation	RF	structure	ratify	data
				

customer recognition column:

confirm	to examine	ratify	data

catalogue

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Telephone: 0755-23731203



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一、Antennaimage

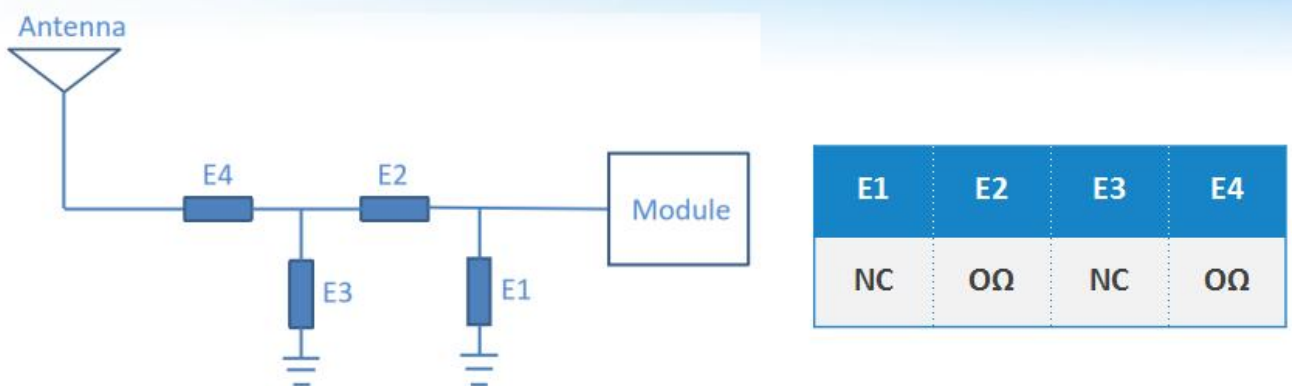


二： . testing environment

2.1. Environmental treatment

nothing

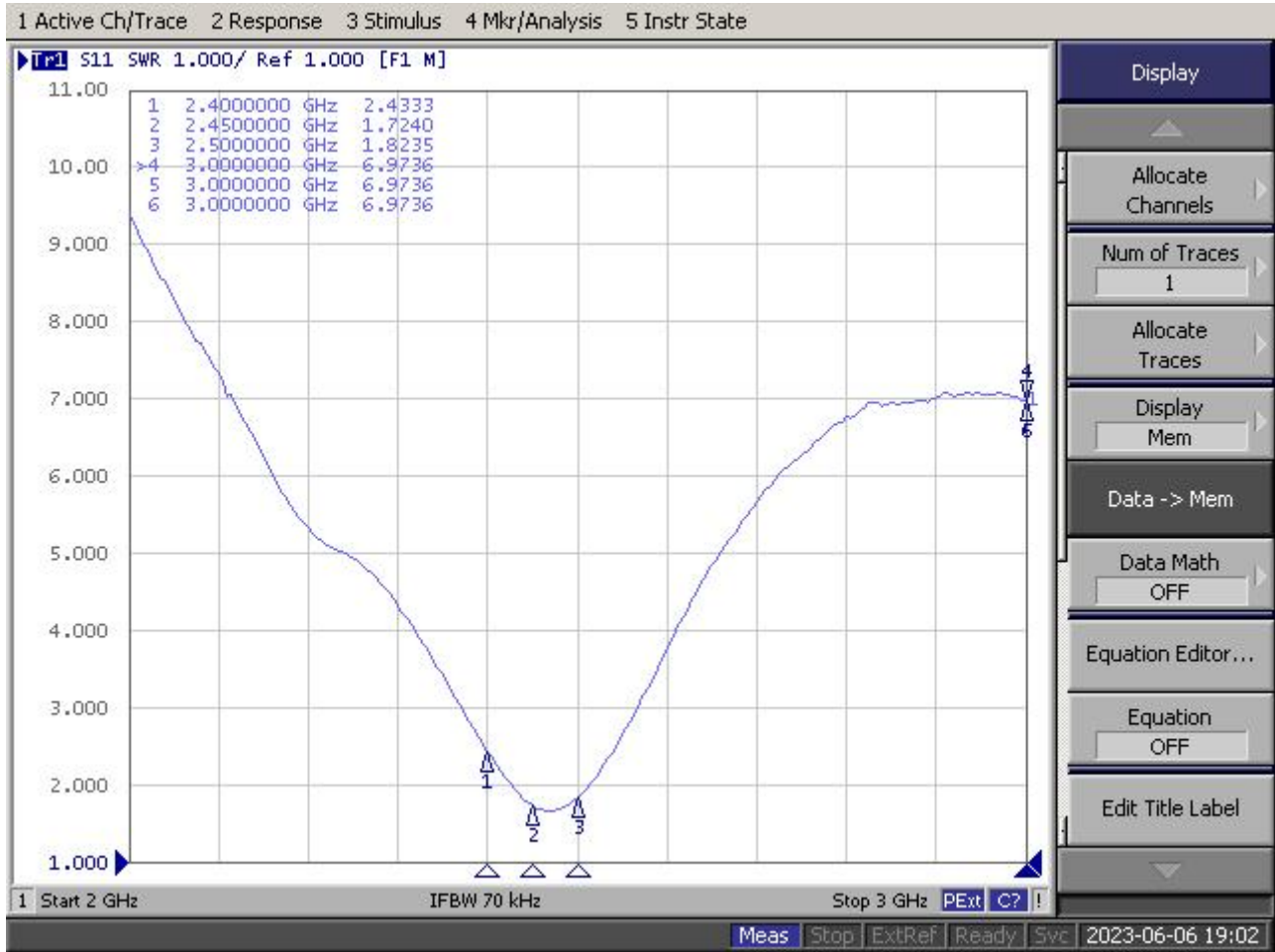
3、 Antenna matching



*:我司未对原有天线前端匹配做更改。

四、 Electrical performance report

VSWR



Frequency (MHz)	2400	2450	2500
VSWR	2.4	1.7	1.8

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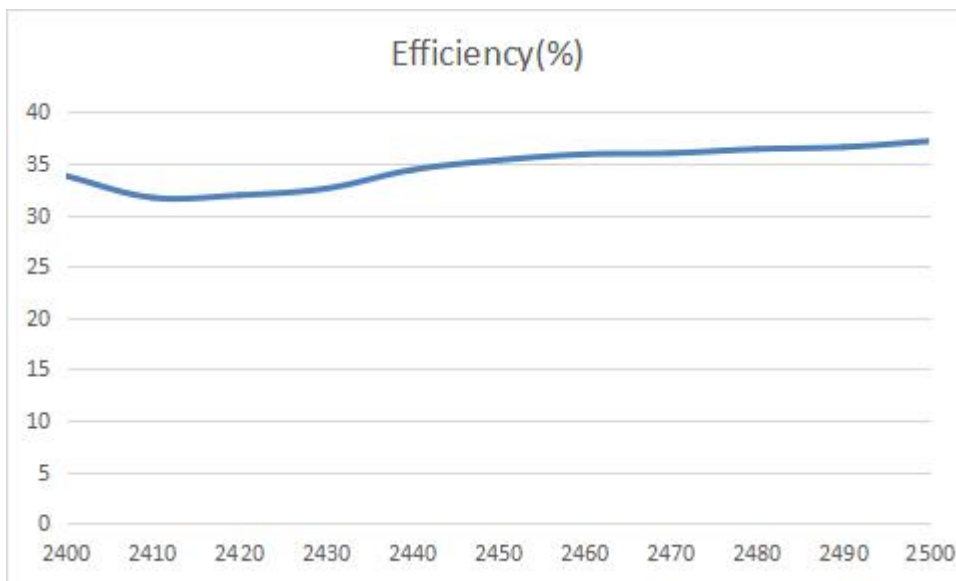
passivetestdata:

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	0.458567199	-4.71240698	33.78775232
2410	0.461252889	-4.990728044	31.69036166
2420	0.55037962	-4.958724531	31.92475308
2430	0.984128577	-4.87163128	32.57143345
2440	1.374551577	-4.635674543	34.39002929
2450	1.743833419	-4.518553636	35.33008127
2460	1.880251934	-4.447845643	35.91000252
2470	2.050066108	-4.434364769	36.02164344
2480	2.143768683	-4.386785716	36.41844753
2490	2.257159606	-4.364014513	36.60990051
2500	2.367914878	-4.295023615	37.19611986

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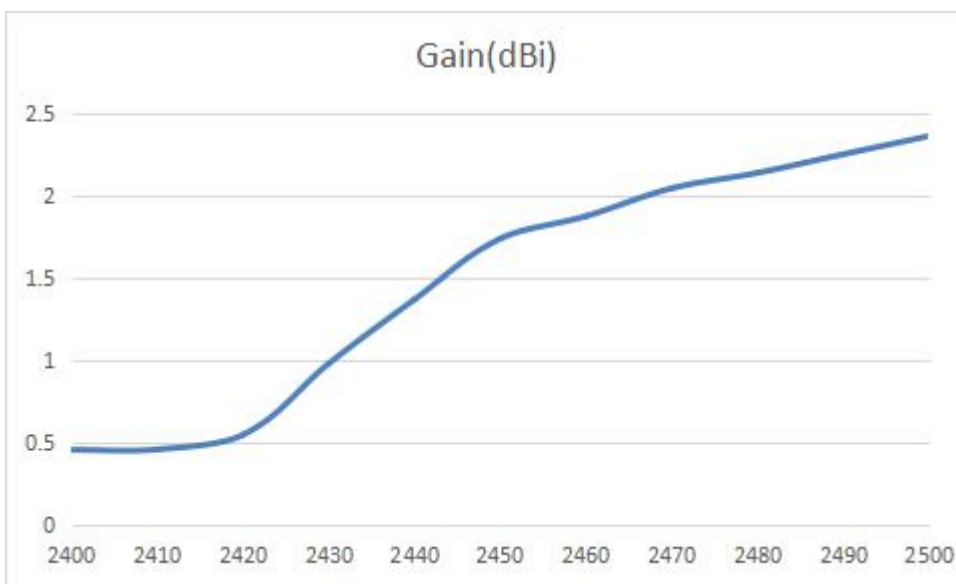


Efficiency line chart:



Frequency (MHz)	2400	2450	2500
Efficiency(%)	33.78	35.33	37.19

Gain line chart:

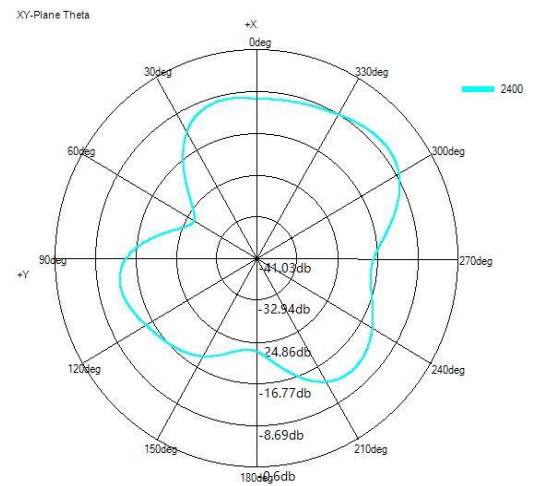
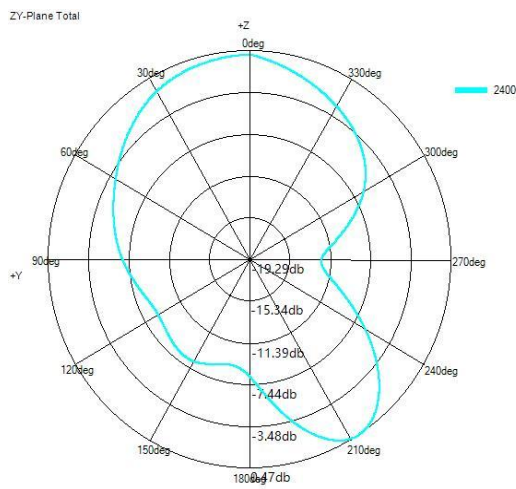
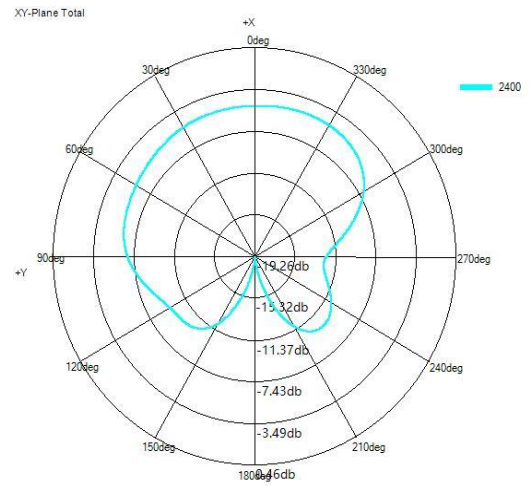
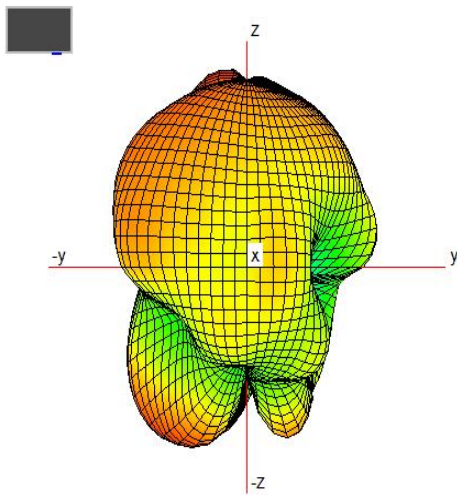


Frequency (MHz)	2400	2450	2500
Gain(dbi)	0.45	1.74	2.36

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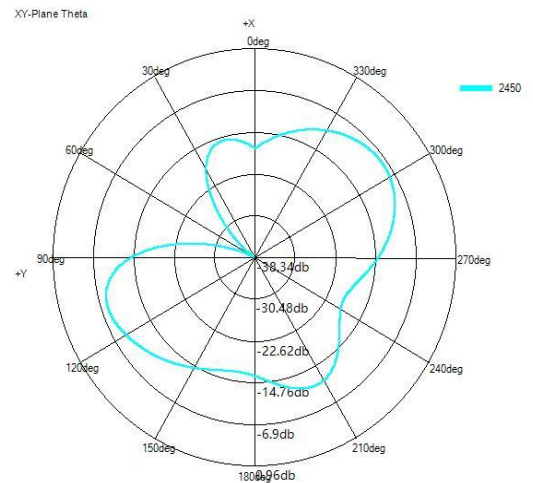
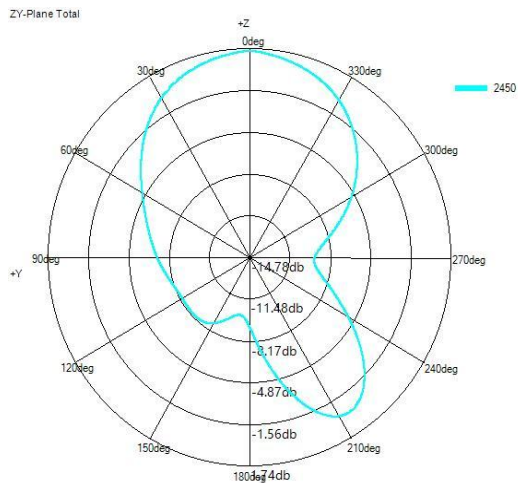
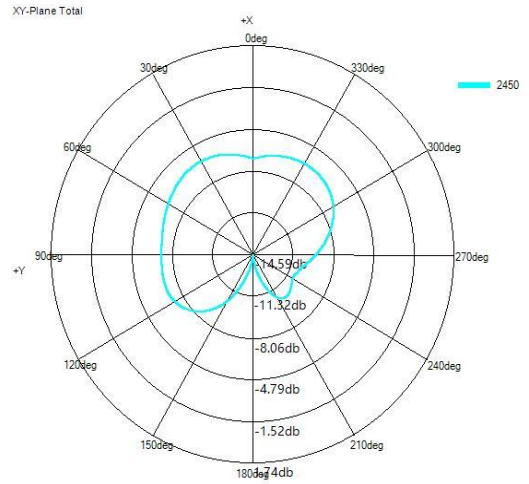
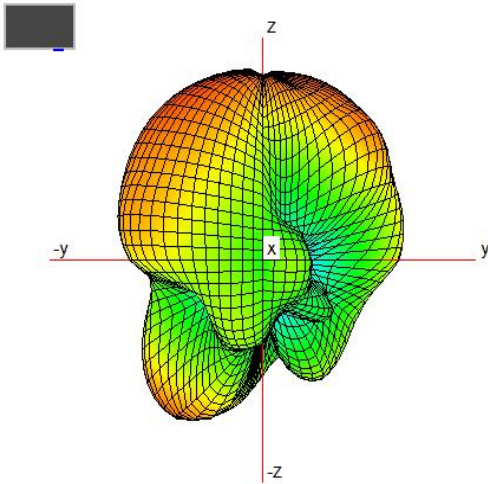
Field diagram :

2400MHZ



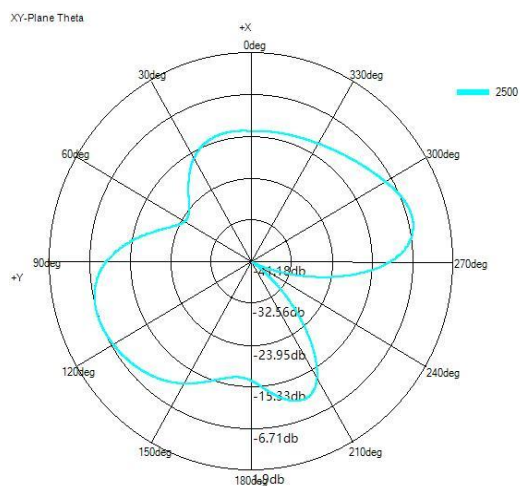
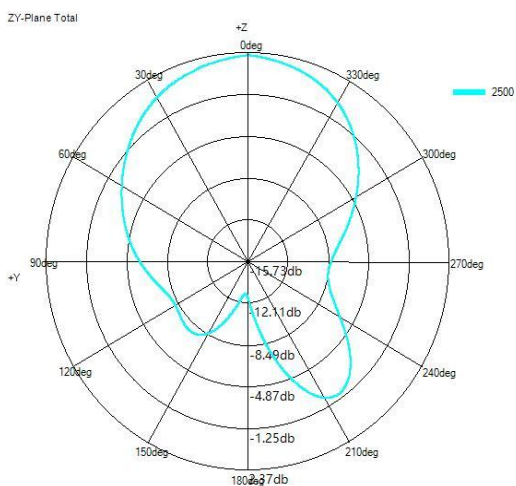
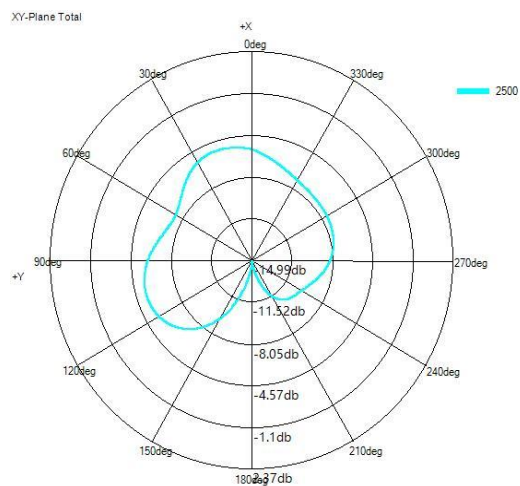
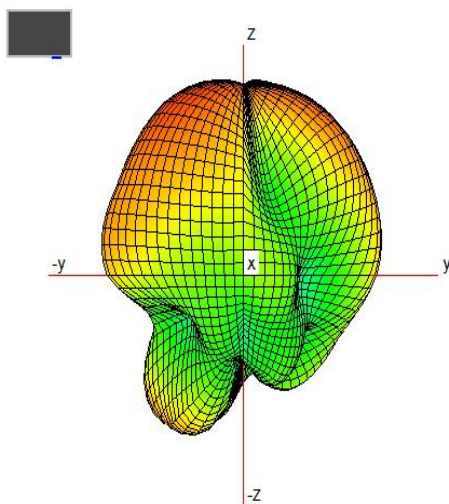
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2450MHZ



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2500MHZ



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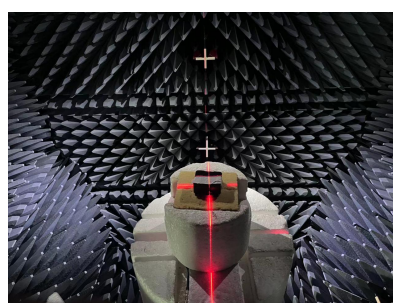
五、Reliabilitytestreport

5.1. saltspraytestreport

Customers	Ling Du	Part Name	P610	Completion date	2023-6-25
Testing items	Testing requirements			Actual measurement results	evaluate
Neutral salt spray experiment	<p>Test process: conduct neutral salt spray test on the hardware on the antenna. In a closed environment of $35\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, the humidity is more than 85%, and the PH value is within the range of 6.5-7.2. After using $5\% \pm 1\%$ Nacl solution and continuous 24h saline spray, the product surface should be free of rust, discoloration, and coating peeling.</p>			<p>After the experiment, the surface of the product has no rust, no discoloration, and no peeling of the coating.</p>	qualified
Experiment: Wang Ming			Approved by: Wang Ming		



Antenna testing instrument

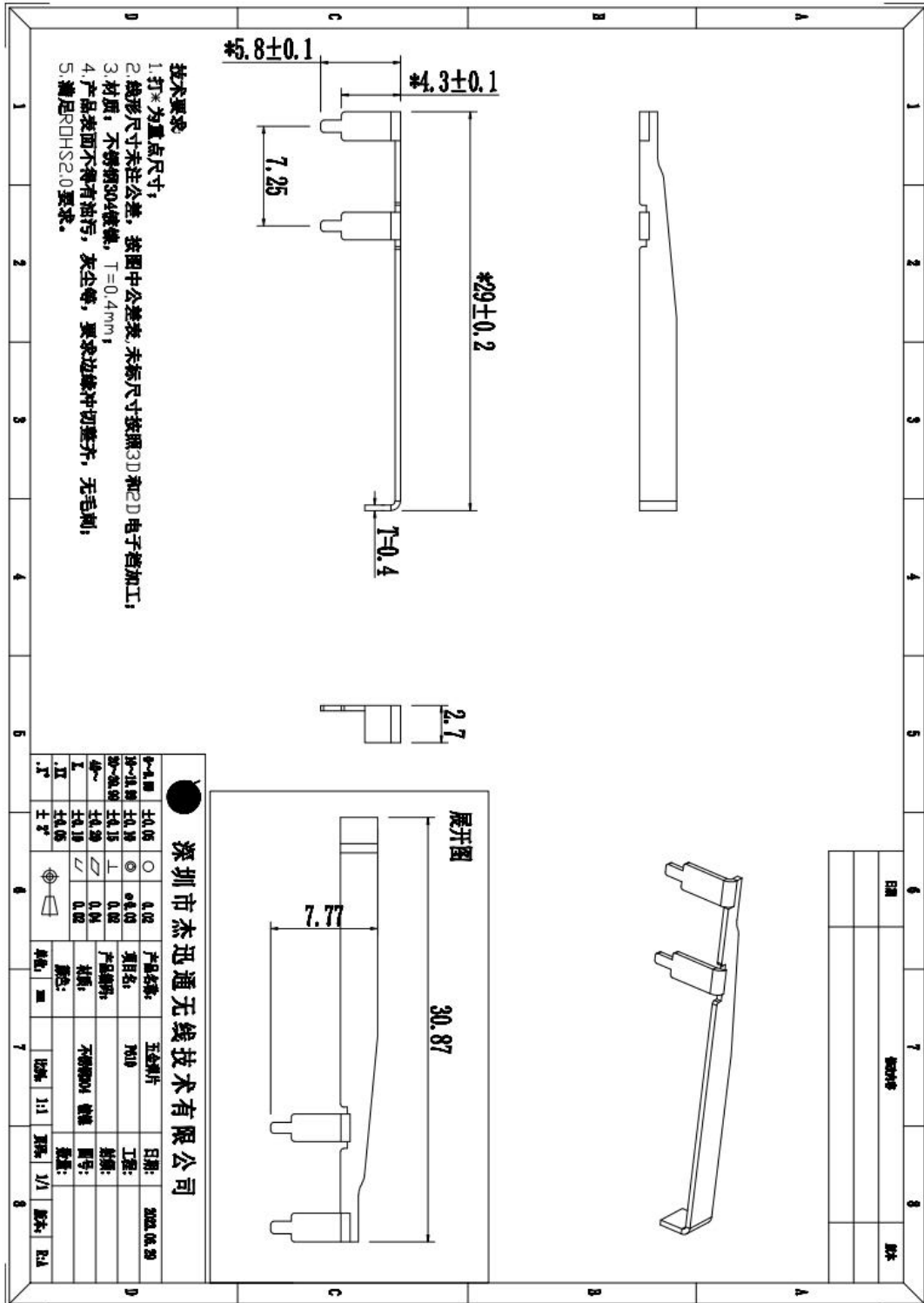


Darkroom testing environment

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六 Engineering drawings



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