Shenzhen Yishengbang Technology Co., LTD

Sample acceptance letter

SPECIFICATION FOR APPROVAL

The name of the company: Guangzhou Vision Source Electronic Technology Co., LTD

Material code: _____

Material Name: _____

Customer Model: _____

Date of recognition: 2024.10.31

Supplier name: Shenzhen Yishengbang Technology Co., LTD

Supplier number: SLK-CVTE-T1108

Signature of acknowledgement					
Supplier acknowledges			Guangzhou Shiyuan Electronic Technology Co., LTD		
engineer	examine and verify	ratify	engineer	examine and verify	ratify
Liu Cai	Huang Zhen	Lin Meicai			
Stamp and sign			Stamp and sign		
date	2024-10-31		date		
Instructions: □ Accept □ Conditional acceptance					
remarks:					

Supplier name: Shenzhen Yishengbang Technology Co., LTD

Supplier address: 101, Building C, Shenzhen Qianwan Hard Technology Industrial Park, Baoan District, Shenzhen

Tel: 18025305599 Tel: 18666299104

catalogue

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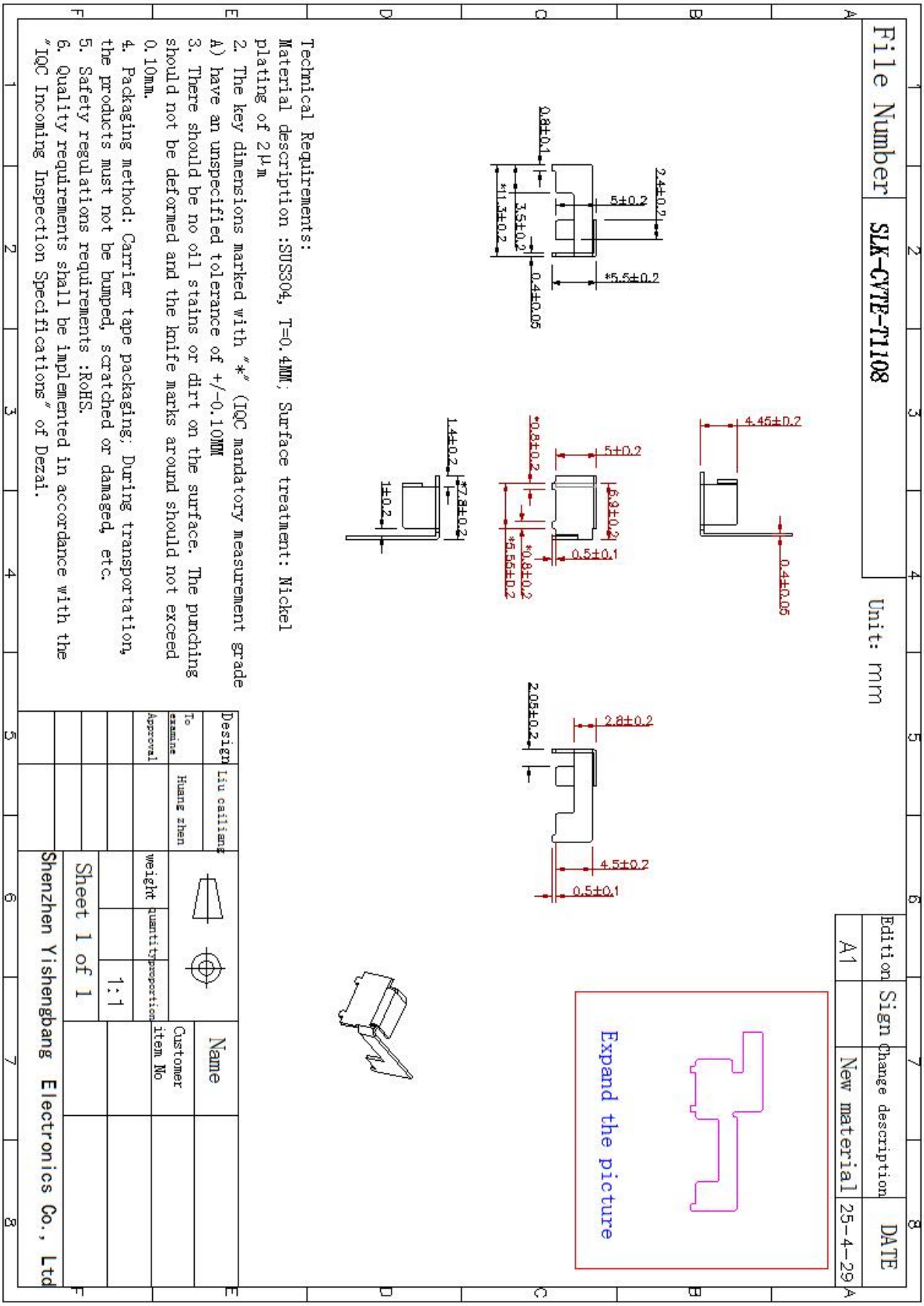
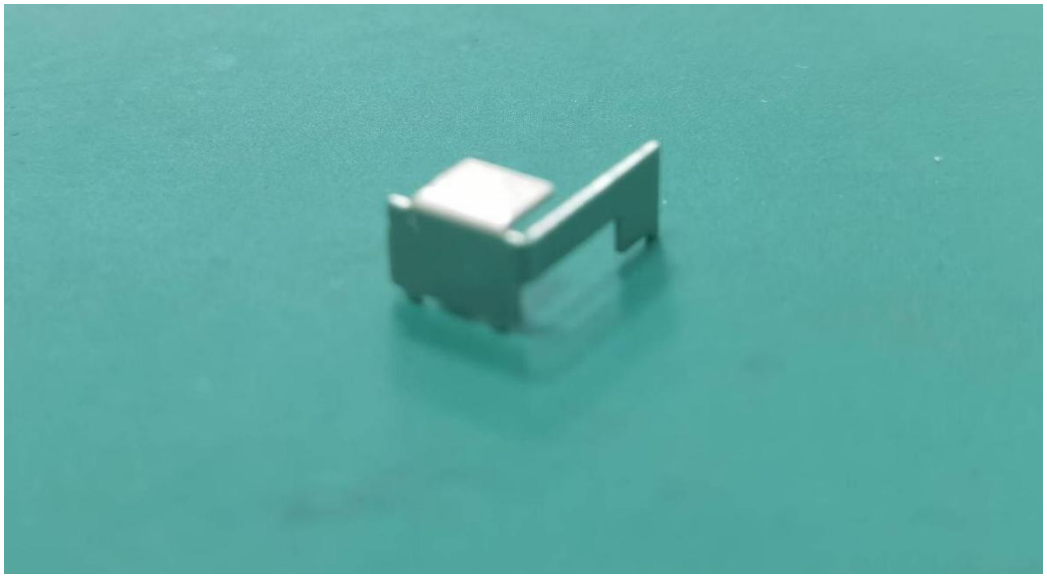
Revise your resume

edition REVISION	Change item DESCRIPTION	date changed DATE
A0	First time formulated	2024.10.31

4. Product drawings (unit: mm)



5. Physical images



Product Code:
(1) Customer: Vision Source Electronics
(2) Antenna Name: Aluminum antenna T1108 (WIFI antenna)

6. Bill of Materials

Material code	SLK-CVTE-T1108		product name	WIFI antenna
order	Name of material	specifications	Qualified	remarks
1	hardware	SUS304	Hesheng	

7. Material certificate

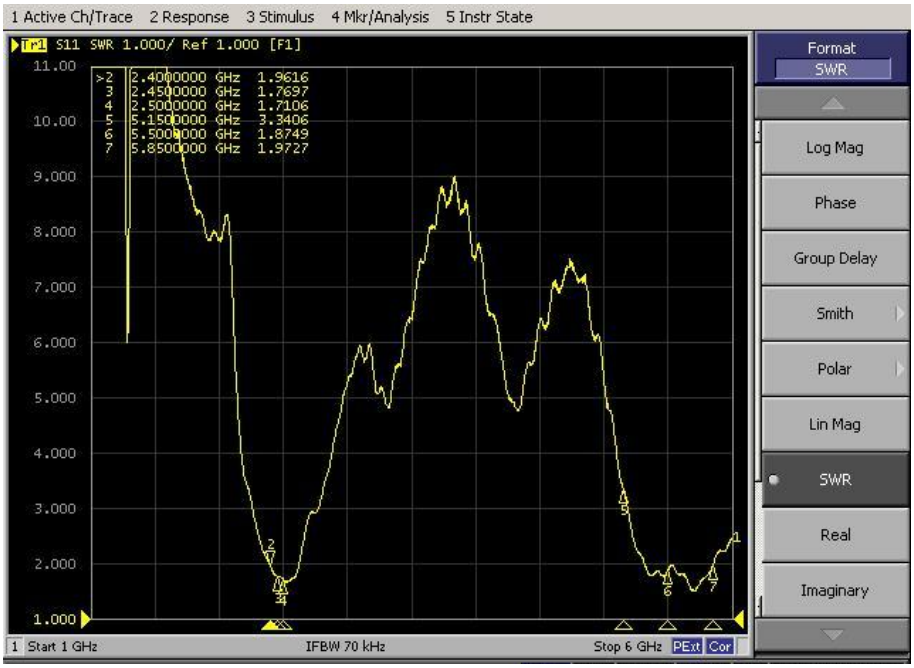
number No.	Material name Material name	description Describe	Testing agency Testing organization	Authentication code Authentication code	Report test date Report test date	state State
1	SUS304	SUS304	SGS	CANEC24003159501	2024/2/29	valid Effective

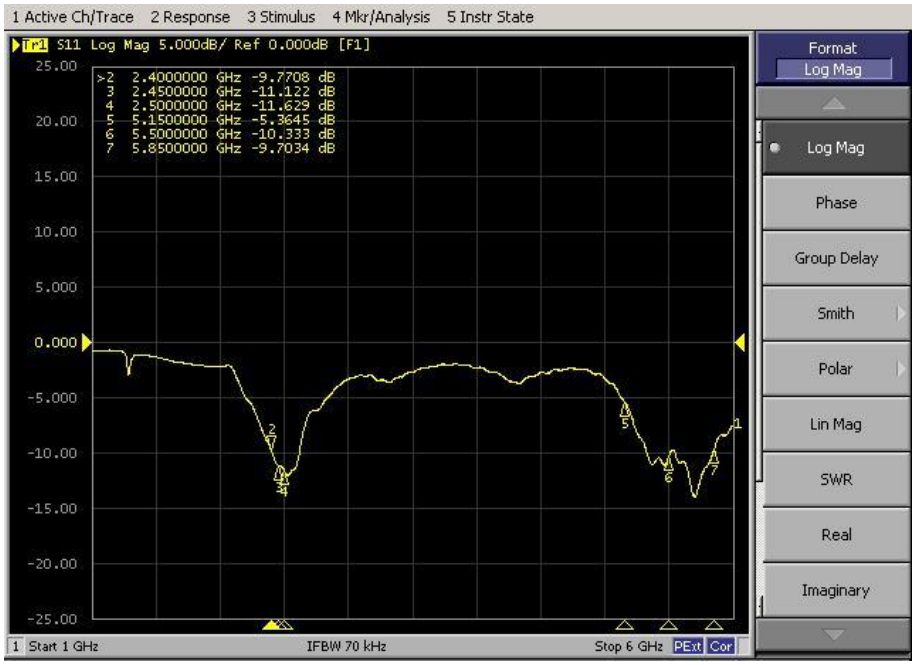
8. Test report

8-1 Antenna

the key technical indexes		Main technical specifications	
frequency range (MHZ)	2400-2500/ 5150-5850	Frequency Range (MHZ)	2400-2500/ 5150-5850
characteristic impedance (Ω)	50	Impedance(Ω)	50
output voltage standing-wave ratio	≦3.5	VSWR	≦3.5
Polarization mode	Horizontal/vertical polarization	Polarization	Horizontal/vertical polarization
directivity	omnidirectional	Radiation	Omni-directional
attended mode	Pin foot	Connector Type	Pin
physical property		Physical Properties	
Antenna material	SUS304	Antenna cover	SUS304
working temperature	-20℃~+70℃	Operating Temp	-20℃~+70℃
Storage temperature	-20℃~+70℃	Storage Temp	-20℃~+70℃

8-2. S11/VSWR

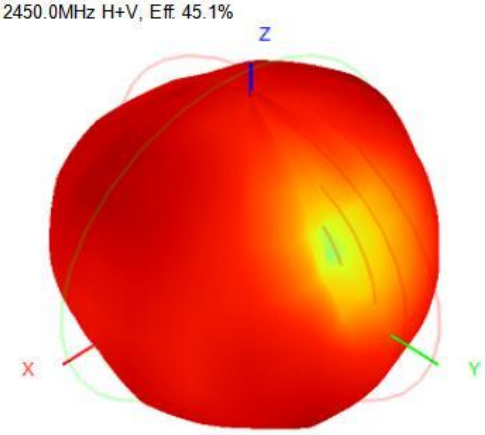

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 SWR 1.000/ Ref 1.000 [F1]
>2 2.4000000 GHz 1.9616
3 2.4500000 GHz 1.7697
4 2.5000000 GHz 1.7106
5 5.1500000 GHz 3.3406
6 5.5000000 GHz 1.8749
7 5.8500000 GHz 1.9727
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Start 1 GHz
IFBW 70 kHz
Stop 6 GHz
PExt
Cor
Format
SWR
Log Mag
Phase
Group Delay
Smith
Polar
Lin Mag
SWR
Real
Imaginary


1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F1]
>2 2.4000000 GHz -9.7708 dB
3 2.4500000 GHz -11.122 dB
4 2.5000000 GHz -11.629 dB
5 5.1500000 GHz -5.3645 dB
6 5.5000000 GHz -10.333 dB
7 5.8500000 GHz -9.7034 dB
25.00
20.00
15.00
10.00
5.000
0.000
-5.000
-10.00
-15.00
-20.00
-25.00
1 Start 1 GHz
IFBW 70 kHz
Stop 6 GHz
PExt
Cor
Format
Log Mag
Log Mag
Phase
Group Delay
Smith
Polar
Lin Mag
SWR
Real
Imaginary

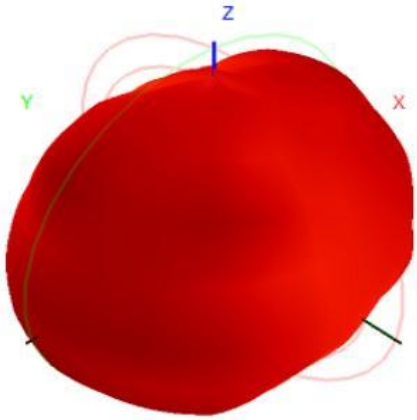
8-3.WIFI Antenna Gain/Efficiency/Radiation Pattern of 3D antenna

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-4.26	-3.88	-3.60	-3.52	-3.60	-3.45	-3.02	-3.39	-3.32	-3.37	-3.42	-3.29	-1.71	-1.58	-2.73	-1.63
Gain (dBi)	-0.83	-0.45	-0.21	-0.05	-0.34	-0.09	0.48	0.10	0.31	0.01	-0.01	2.44	3.54	3.06	2.16	4.79
Efficiency (%)	37.54	40.91	43.61	44.50	43.69	45.14	49.84	45.77	46.53	45.98	45.49	46.92	67.50	69.44	53.34	68.68

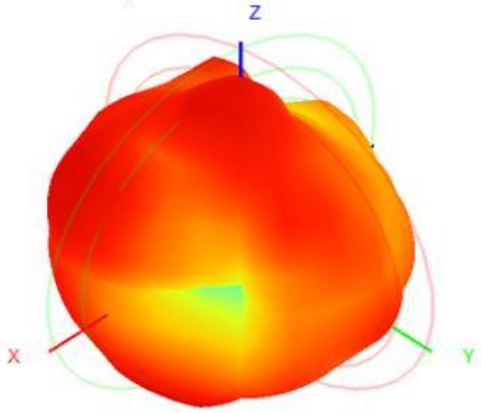
2450.0MHz H+V, Eff. 45.1%



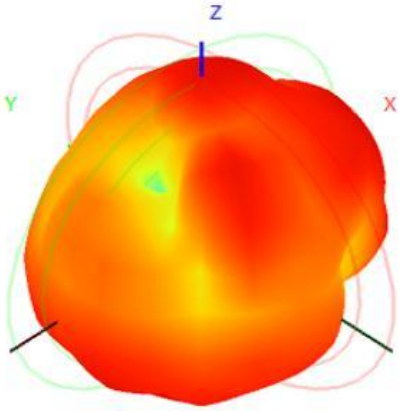
Back View



5850.0MHz H+V, Eff. 68.7%



Back View



9. Inspection report

9-1 Check the key dimensions of the sample

Date: 31 October 2024

customer name	Huikewo Co., LTD				
product model	**SLK-CVTE-T1108**				
order number	surface	size			
		antenna standing wave ratio	Length of the iron piece	Width of the iron piece	/
1	OK	< 3.5	11.32	7.82	/
2	OK	< 3.5	11.33	7.81	/
3	OK	< 3.5	11.33	7.82	/
4	OK	< 3.5	11.26	7.82	/
5	OK	< 3.5	11.32	7.81	/
Note: The antenna standing wave ratio is less than 3.5, and the size tolerance is according to the drawing specification.					

9-2 Salt spray test

test item	Salt Spray Test	
Product specification model	**SLK-CVTE-T1108**	Number of tests: 5PCS
Test time: 2024-10-30		Completion time: 2024-10-31

Test/inspection equipment:
1. HY-60D salt spray tester
2. HP-8753ES network analyzer

Test/inspection conditions:

1. The temperature in the salt spray chamber is 35±2℃; the laboratory temperature is 22-30℃

2. After 24H spray, the salt spray settling rate is 1-2ML/h per 80cm area with sodium chloride concentration of 50±10g/L and PH value
It was 6.5/7.2

requirement:
1. Electrical test meets the standard requirements: voltage standing wave ratio test is qualified;
2. The metal surface coating has no oxidation, peeling, cracking, separation and other defects; the non-metallic part has no discoloration, deformation, delamination, cracking and other defects

Sample number	order of evaluation	Bad description
1	qualified	not have
2	qualified	not have
3	qualified	not have
4	qualified	not have
5	qualified	not have

Test/inspection judgment: □ Qualified □ unqualified □ No judgment

Test: Kingdom Walk Audited by: Guo Liang

9-3 Constant temperature and humidity test

test item	Constant temperature and humidity test	
Product specification model	**SLK-CVTE-T1108**	Number of tests: 5PCS
Test time: 2024-10-30		Completion time: 2024-10-31

Test/inspection equipment:

1. Programmable constant temperature and humidity test chamber
2. HP-8753ES network analyzer

Test/inspection conditions:

1. Test at room temperature 25℃ and humidity 65%

2+80±2℃ 85-90%RH /-30±2℃ 0%RH 2 hours per cycle Time 24H

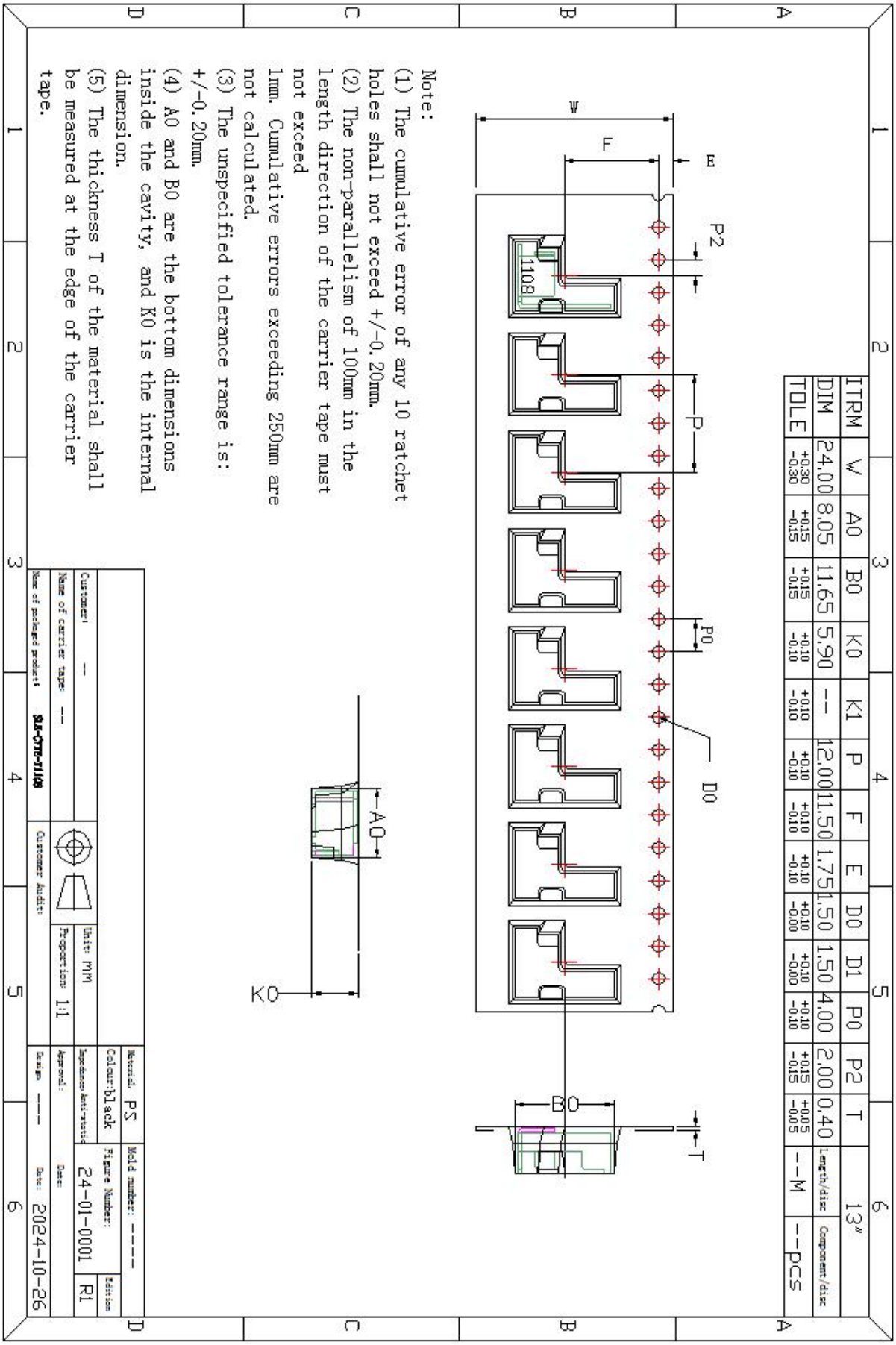
requirement:
1. Electrical test meets the standard requirements: voltage standing wave ratio test is qualified;
2. The metal surface coating has no oxidation, peeling, cracking, separation and other defects; the non-metallic part has no discoloration, deformation, delamination, cracking and other defects

Sample number	order of evaluation	Bad description
1	qualified	not have
2	qualified	not have
3	qualified	not have
4	qualified	not have
5	qualified	not have

Test/inspection judgment: □ Qualified □ unqualified □ No judgment

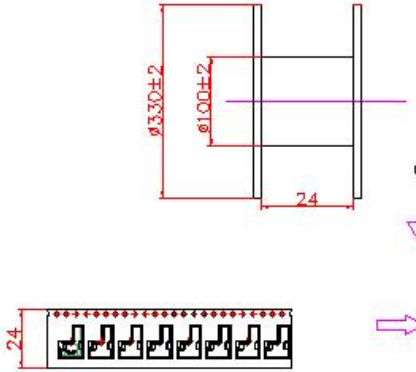
Test: Kingdom Walk Audited by: Guo Liang

10. Packaging method

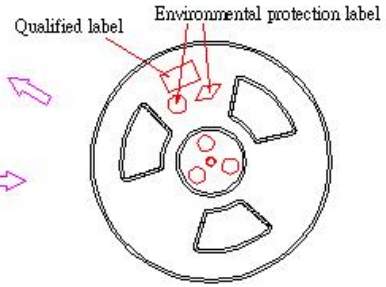


Packaging example	Customer name	Applicable products	Packaging method
	Shiyuan Electronic	WIFI antenna fixing piece	ROLL

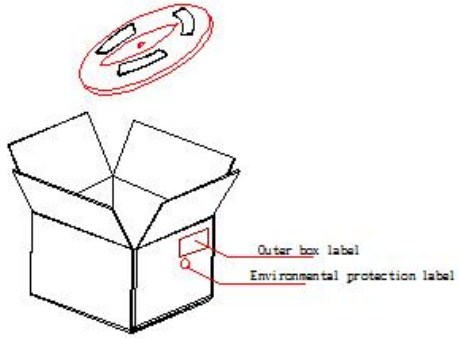
REV.	Revise the contents	Revision time
A	New material	2025/4/29



The carrier tape packaging needs to reserve 11 pieces of space first before placing the finished product



Carrier tape packaging, 1000PCS per roll(The quantity is subject to the actual order).



Outer box packaging, quantity adjusted according to order

Packaging specification description:
As shown in the figure, the product is packaged with CARRLER TAPE. The tape needs to reserve 11pcs of Spaces before the finished product can be placed.
And it is equipped with a COVER TPAE (upper tape), and then it is automatically wound on the REEL (plastic reel) for material collection in conjunction with the tape machine.
2. After the quantitative packaging is completed, 11pcs of Spaces also need to be reserved for the front-end CARRLER TAPE.
After the COVER TPAE is covered with the length of the CARRLER TAPE and needs to exceed 200mm further, it is finally fixed with a label.
And attach the qualified label and ROHS label on the REE disk;
3. Note: The CARRLER TAPE must not float up or have problems such as improper adhesion, tilting, or incorrect placement direction of the finished product.
4. Place a triangular pallet on each side of the cardboard box, and put 10 pieces of reels in each box. After covering the box, seal it with tape.
Attach the shipping label and ROHS label at the side position;

Product Specification	/	Approval	
Packaging capacity	1000/1 volume	Review	Huang Zhen
Weight (kg)	/	Customized	Liu Cailiang
Shenzhen Yishengbang Electronics Co., Ltd			