

SPECIFICATION

CUSTOMER :

SUPPLIER : Shenzhen Zhenxing Industrial Manufacturing Co., Ltd

DESCRIPTION : Black External 158mm Foldable Antenna (2.4G/5.8G)

MATERIAL CODE:

SUPPLIER PRODUCT NAME: Black External 158mm Foldable Antenna (2.4G/5.8G)

SUPPLIER MATERIAL CODE:

DATE: 2024.6.4

SUPPLIER		
PREPARED BY	CHECKED BY	APPROVED BY

CUSTOMER		
ACCEPTED BY	CHECKED BY	APPROVED BY

REMARK: Please send us one or copy of this approval with stamp after accepting,other copies filed by the customer.

ADD:Room A506, Zhongcheng Industrial Park, No. 274 Longhua Industrial Road, Songhe Community, Longhua Subdistrict, Longhua District, Shenzhen

Postal code :

Tel:0755-

Fax:0755-

Http:

REVISION HISTORY

[illegible]

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IV. Product Parameters

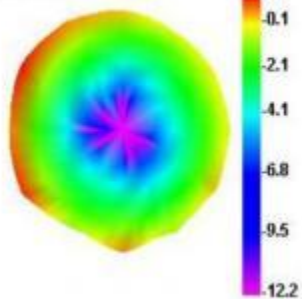
2.4G/5.8G Dual Band Rubber Antenna

Table 1			
NO	Project	Feature	Additional errors are allowed in the laboratory
4.1.1	Recipient frequency range	2.4G-2.5G/5.1G-5.8G	_____
4.1.2	Voltage standing wave ratio	Compare waveforms	_____
4.1.3	directionality	Omni-directional	_____
4.1.4	Radiating element	1/4 Ware Helical	_____
4.1.5	Linear approach	Linear Vertical	_____
4.1.6	Power	1W	_____
4.1.7	Characteristic impedance	50 OHM	_____
4.1.8	Connector Model	SMA	_____
4.1.9	Weight	7.57g	±0.3g

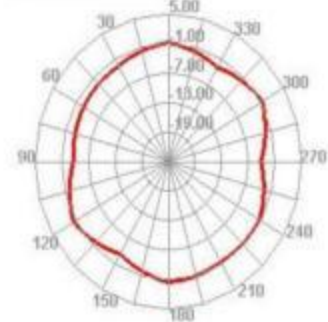
VI. Dark Room Test Report

Passive Test For 5150-5850									
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5150	57.5	-2.4	1.29	35.8	21.768	1.29	-12.22	59.04	58.22
5220	61.2	-2.13	1.67	37.7	23.494	1.67	-11.29	58.69	58.07
5290	63	-2.01	1.75	37.7	25.293	1.75	-11.12	58.96	58.16
5360	52.7	-2.78	1.51	30.7	22.058	1.51	-17.05	59.02	58.59
5430	75.9	-1.2	2.95	42	33.867	2.95	-23.77	60.59	59.65
5500	64.2	-1.93	2.26	34.7	29.484	2.26	-19.56	60.82	59.59
5570	48.2	-3.17	1.17	25.7	22.509	1.17	-17.07	62.12	60.71
5640	76.9	-1.14	2.8	41.1	35.811	2.8	-12.97	62.52	61.91
5710	63.6	-1.96	1.55	33.3	30.287	1.55	-14.87	62.36	61.76
5780	59.8	-2.24	1.12	31.4	28.336	1.12	-12.43	62.8	62.24
5850	52.9	-2.77	0.73	28.2	24.658	0.73	-11.96	63.41	62.86

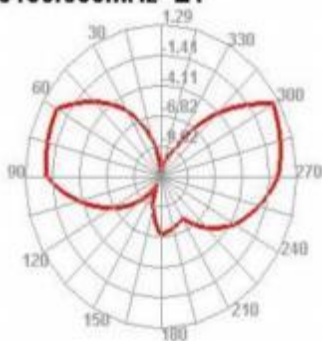
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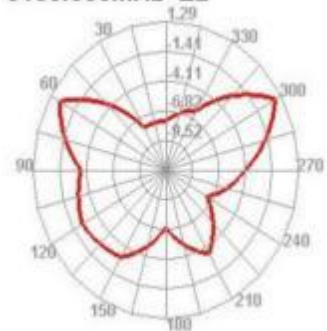
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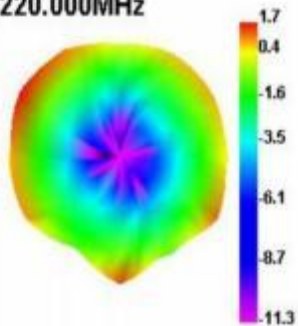
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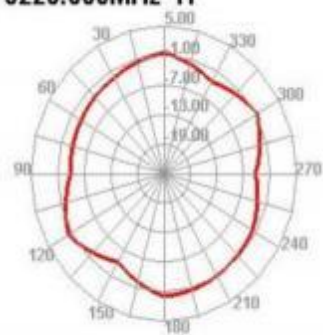
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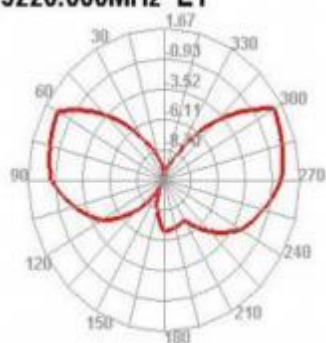
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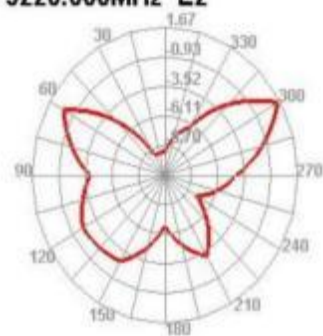
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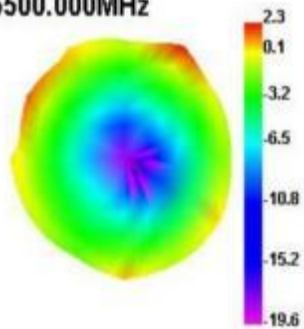
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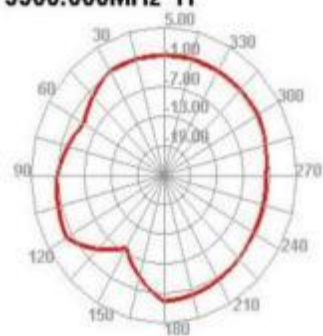
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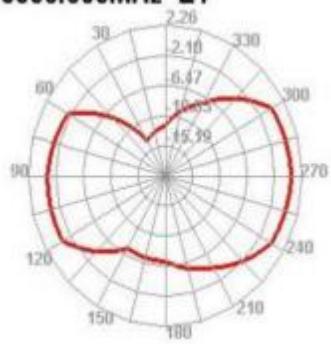
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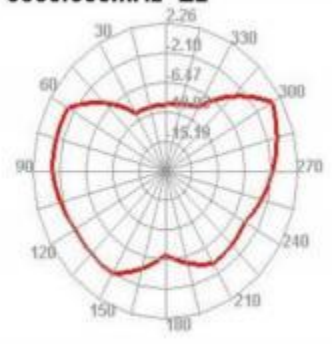
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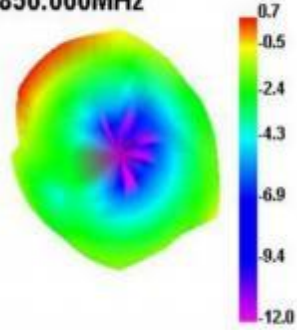
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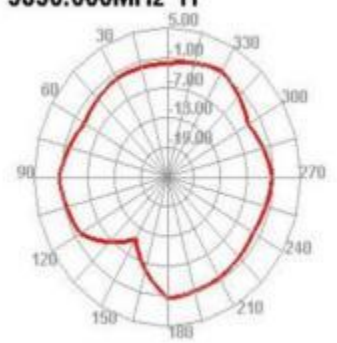
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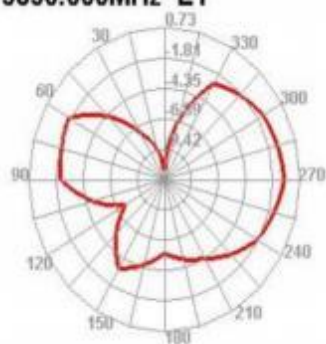
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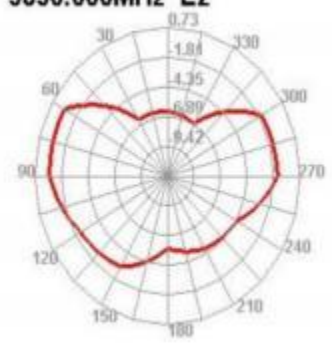
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5850.000MHz E1

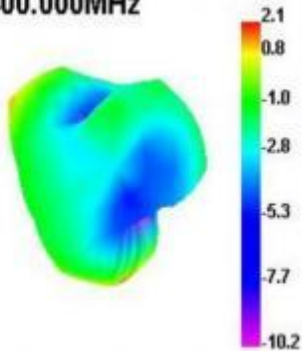


5850.000MHz E2

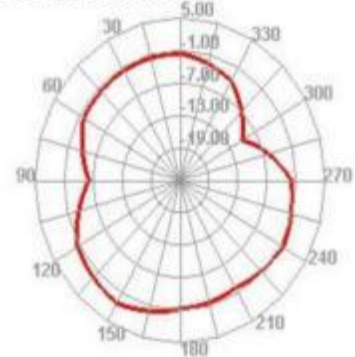


Passive Test For 2400-2500									
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	UHis (%)	DHis (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	62.4	-2.05	2.06	26.7	35.695	2.06	-10.16	48.55	48.51
2410	62	-2.08	1.81	26.8	35.218	1.81	-9.81	48.59	48.53
2420	56.2	-2.5	1.17	24.5	31.7	1.17	-10.26	48.73	48.42
2430	53.4	-2.73	0.73	23.7	29.639	0.73	-10.6	48.44	48.12
2440	60.9	-2.16	1.05	27.6	33.234	1.05	-9.96	48.55	48.21
2450	64.7	-1.89	1.02	30	34.742	1.02	-9.68	48.76	48.47
2460	60.5	-2.19	0.47	28.6	31.893	0.47	-10.02	49.04	48.68
2470	57.3	-2.42	0.19	27.4	29.903	0.19	-10.08	48.91	48.68
2480	63.6	-1.97	0.57	30.8	32.767	0.57	-9.97	48.86	48.43
2490	73.2	-1.35	1.21	36	37.26	1.21	-9.61	49.07	48.72
2500	69.7	-1.57	1.06	34.7	35.013	1.06	-10.33	49.21	48.76

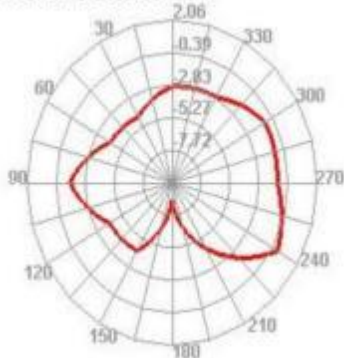
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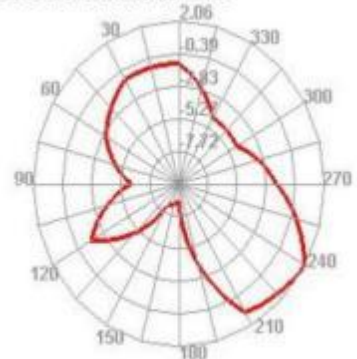
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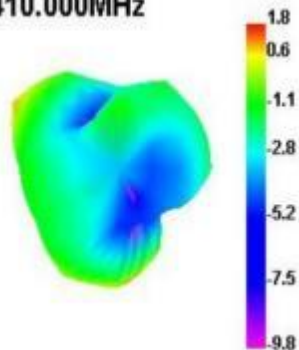
2400.000MHz E1



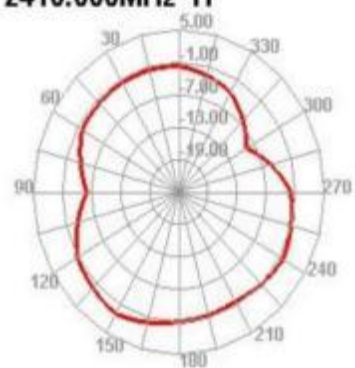
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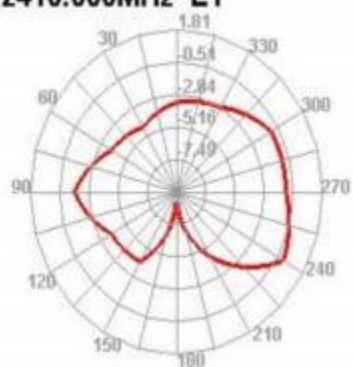
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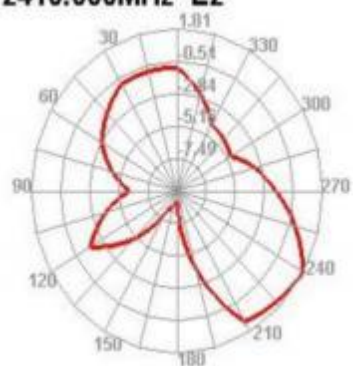
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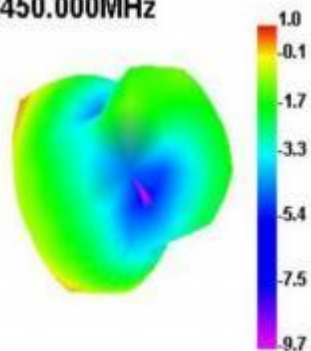
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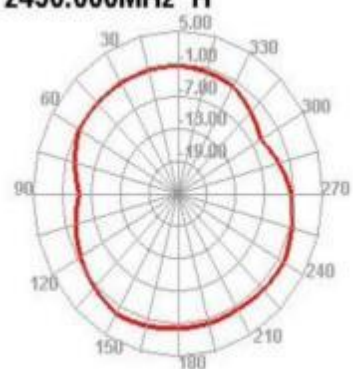
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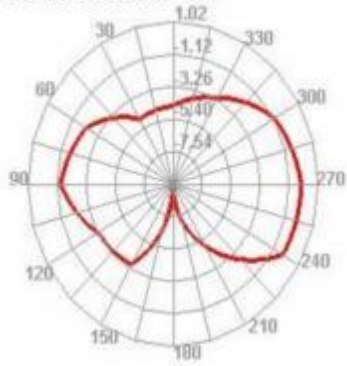
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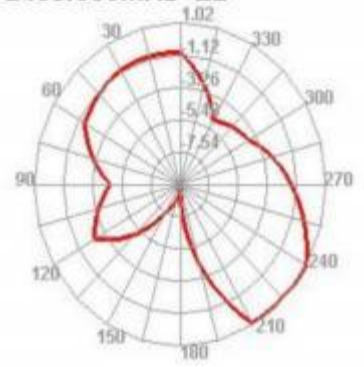
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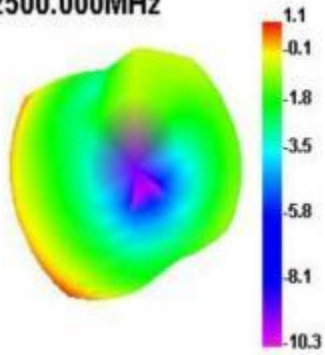
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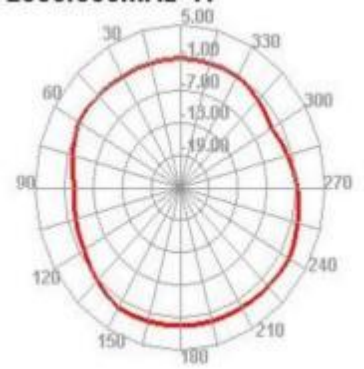
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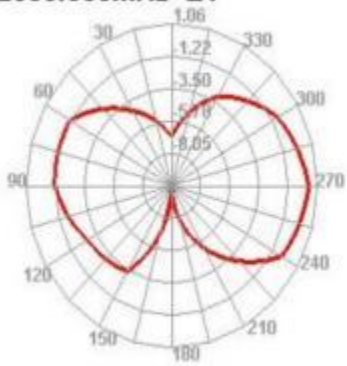
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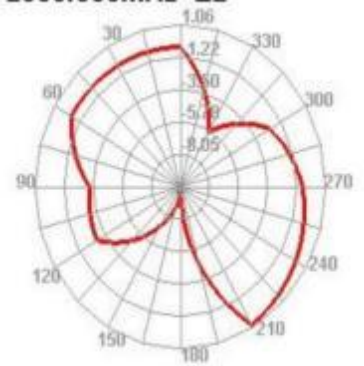
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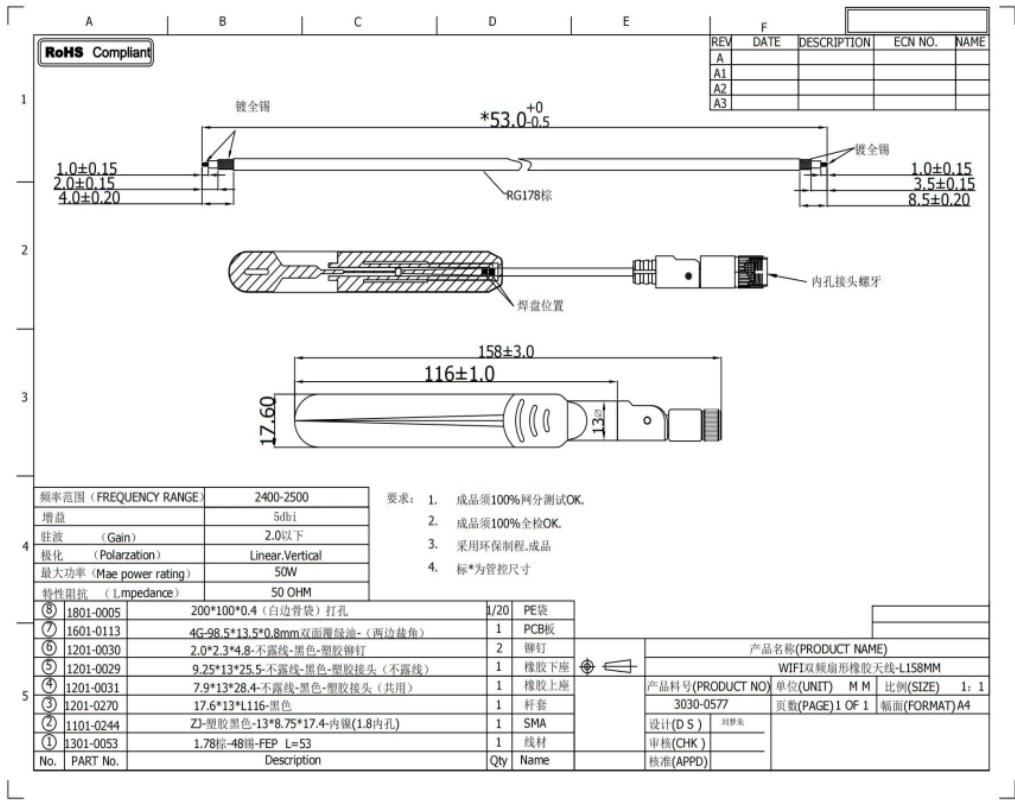
2500.000MHz E1



2500.000MHz E2



测试报告



VII. Test and Inspection

project	test conditions	Specifications
storage environment	Test temperature,humidity,and air pressure without specifying as follows: 1. The temperature ranges from -30°C to $+80^{\circ}\text{C}$ 2. For humidity levels between 45% and 85% The air pressure ranges from 86kpa to 106kpa	Normal electrical and mechanical performance
Voltage Standing Wave Ratio	Perform 5 cycles between 70°C and 40°C ,and then inspect the appearance quality under normal conditions for 1-2 hours	The size should meet the requirements and meet the mechanical and electrical performance
Constant humidity and heat resistance test	Relative humidity is $95\pm 3\%$,test temperature is 40°C ,and after 2 hours of continuous exposure,the electrical performance of the test sample should be measured within 5 minutes after removal. The appearance quality of the test sample should be checked for 1-2 hours under normal conditions.	The size should meet the requirements and the well should meet the mechanical and electrical performance
vibration test	Vibration range 10-55HZ,displacement amplitude:0.35MM,acceleration amplitude:50.0M/s,frequency cycle times:30 times	Normal electrical and mechanical performance
Pull-out force test	IM falls from high altitude three times in the direction of mutually perpendicular axes	Normal electrical and mechanical performance
Pressure resistance	1. Insulation spark voltage 1.5KV 2. Sheath spark voltage 1.5KV 3. Insulation and sheath withstand voltage of 0.5KV	Normal electrical and mechanical performance
Torque Test	Fixed screw sleeve,torque meter test when twisted 360 degrees Value 2N	No torque failure

VII. Environmental Monitoring

Environmental Testing Requirements

No.	Test items	Test methods and conditions	Test equipments	Test results
1	Temperature and Humidity test	Refer to EIA364-31 Method III, Test Condition A The purpose of this test procedure is to evaluate the properties of the materials affected by the effects of high humidity and heat for the products used in detailed standard test methods.	K.SON INS	PASSED
		Requirements: Temperature: 70 °C Humidity: 90~95% (R.H) Time: 72 hours	THS-A4L-150	
2	Low temperature test	The tested samples shall be placed in a constant temperature environment with the temperature set at - 20 °C	K.SON INS	PASSED
		Requirements: Time: 24 hours	THS-A4L-150	
3	Hot test	The tested sample shall be placed in a constant temperature environment with the temperature set at 70 °C	K.SON INS	PASSED
		Requirements: Time: 24 hours	THS-A4L-150	
4	Thermal Shock	The tested sample shall be placed in a fixed environment with the temperature set at - 20~80 °C	K.SON INS	PASSED
		Requirements: More than 8 hours (30 minutes/time, 12 cycles)	THS-A4L-150	

IX. Packaging Instructions Report

Salt water spray test report

Salt SPRAY TEST REPORT

Manufacturer name	Yongyifa	Report no.	20181220-01
Product name	SMA	Test date	2018. 12. 20 9:00-2018. 12. 22 9:00
Part no.	A031-SMA-C-001	Equipment	Salt spray testing machine
Product material	Brass	Specification	Gold plating
Unit of inspection	0QC	Sample quantity	5PCS
Experimental conditions			
Brine test concentration	5%	Compressed air pressure	1.00.0.01 kgf/ca
Laboratory temperature	35 °C	Placement angle	° 15 °-30 °
Brine barrel temperature	± 1 °C	Spray collection volume	1.02.0 ml/80cm/hr
Laboratory relative temperature	47 °C ± 1 °C	Ph	6.5-7.2
	85%		
NACL	Molecular Weight 58.6	Test time	48H
Test results			
Sample number	Description of sample inspection	Verdict	
1	No oxidation on the surface,	OK	
2	no green phenomenon, no	OK	
3	oxidation on the surface, no	OK	
4	green phenomenon, no	OK	
5	oxidation on the surface, no	OK	
	green phenomenon	OK	
Verdict	☒ (↓) qualified ☐ () No conformity		
Instructions for testing	☐ () according to customer request ☒ (2) new product verification ☐ (3) sample evaluation ☒ process inspection ☐ (4) outgoing inspection ☐ (5) other testing		
Notes	1. Test conditions: Illumination 710 LUX above the eye from the object 30 cm, test time for 5 Seconds: 2. Salt spray test by visual judgment of its cutting surface, bending, hanging within 5 mm from the point of contact is not considered; 3. According to the standard diagram (GB1266-86) to determine the corrosion grade, grade 4 above, determine qualified; Reference: GB/T 2423.17-93 EIATP-26A ISO3768;		
Approved by: Zheng Tingting shelf life: 3 years		Experimenter: Zhang Junmei. Ref. : R20-04 A/0	

X. Packaging Instructions Report

PE bag antenna 50PCS/package, feeder 200PCS/package;

The outer packing label shall contain the following information: Supplier name, customer material number, material name, RoHS label, packing quantity, production date

Package by PE bags, Antenna 100PCS/ bag, Feeder line 200PCS/ bag;

The carton label shall contain the following information: supplier name, customer material number,

1. Product samples provided by the supplier and the amount of material must meet the technical requirements

2. Each page and all the attachments were confirmed need official seal of the supplier

3. Each page not enough to fill out, the supplier can increase on its own

4. Technical specification must be provided prior to trial production, and need to be admitted as the basic condition material