


ShenZhen VLG Wireless Technology Co.,Ltd

Acknowledgment

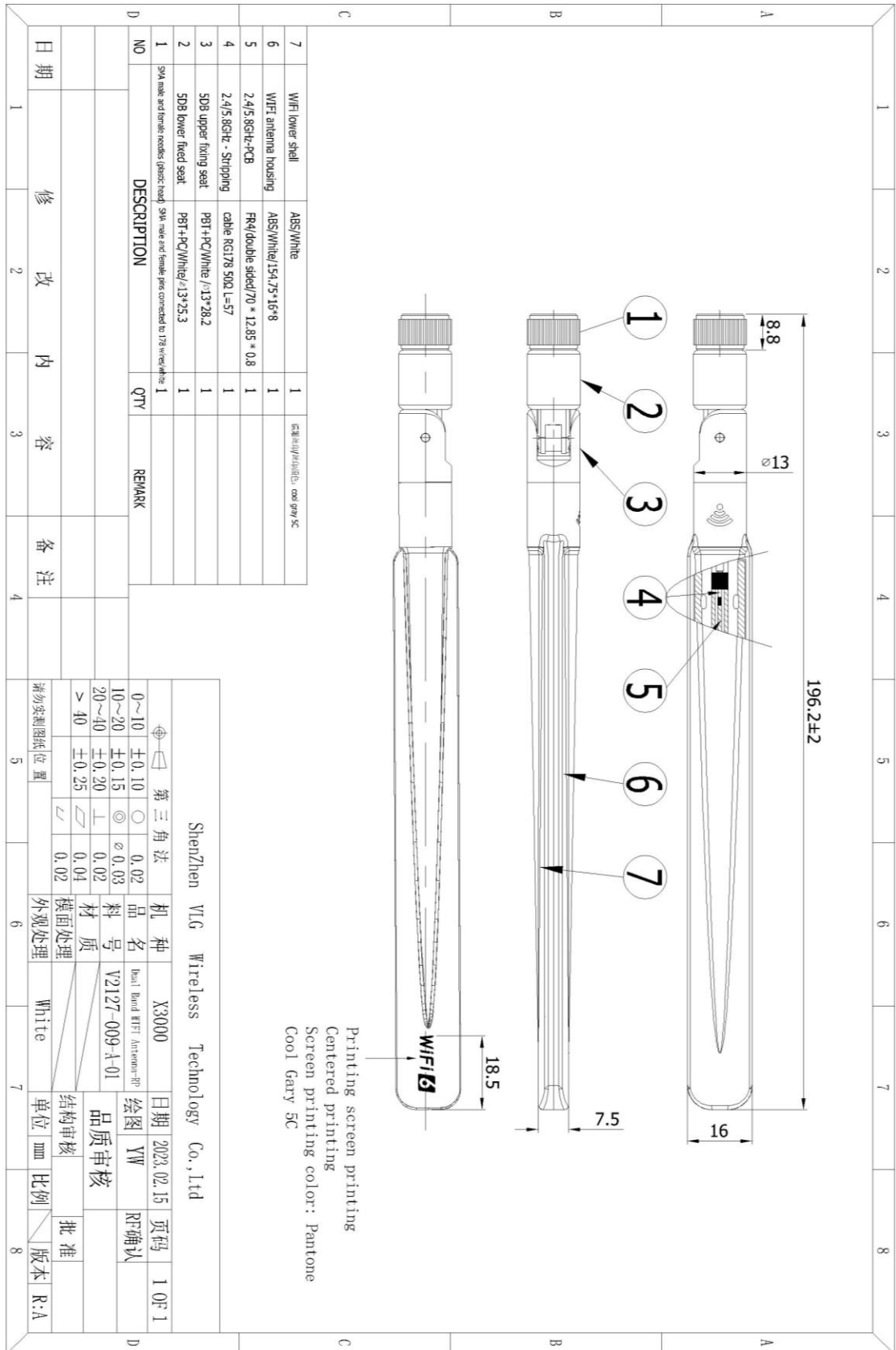
Customer/Project Name	广联智通/X3000		Frequency range	2400-2500/5150-5850MHz			
VLG Item No	V2127-009-A-01		Edition	A			
RF	LLM	确认	DQE	余洪	确认		
ME	YW		PM	莫巨洪			
Date	2023.3.14						
Customer Projects Name Item No	Customer Project Name:						
	Customer Project Number:						
Customer confirmation							
RF			DQE				
ME			PM				
Date							
Customer Satisfaction Survey on R&D Projects (Please provide a comment on the work of our R&D or PM management personnel to urge us to better serve you)							
RF artisan	<input type="checkbox"/> Satisfied		<input type="checkbox"/> Basically satisfied		<input type="checkbox"/> Dissatisfied		
ME artisan	<input type="checkbox"/> Satisfied		<input type="checkbox"/> Basically satisfied		<input type="checkbox"/> Dissatisfied		
Project management (PM management personnel)	<input type="checkbox"/> Satisfied		<input type="checkbox"/> Basically satisfied		<input type="checkbox"/> Dissatisfied		
Suggested Item Description:							
Antenna picture:							

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3、产品图面(Product Picture)



NO	DESCRIPTION	QTY	REMARK
1	SMA male and female sockets (plastic head)	1	SMA male end female pins connected to 178 wire/white
2	5D8 lower fixed seat	1	
3	5D8 upper fixing seat	1	
4	2.4/5.8GHz - Stripping	1	
5	2.4/5.8GHz-PCB	1	FR4/double sided/70 * 12.85 * 0.8
6	WiFi antenna housing	1	ABS/white/154.75*16*8
7	WiFi lower shell	1	ABS/white

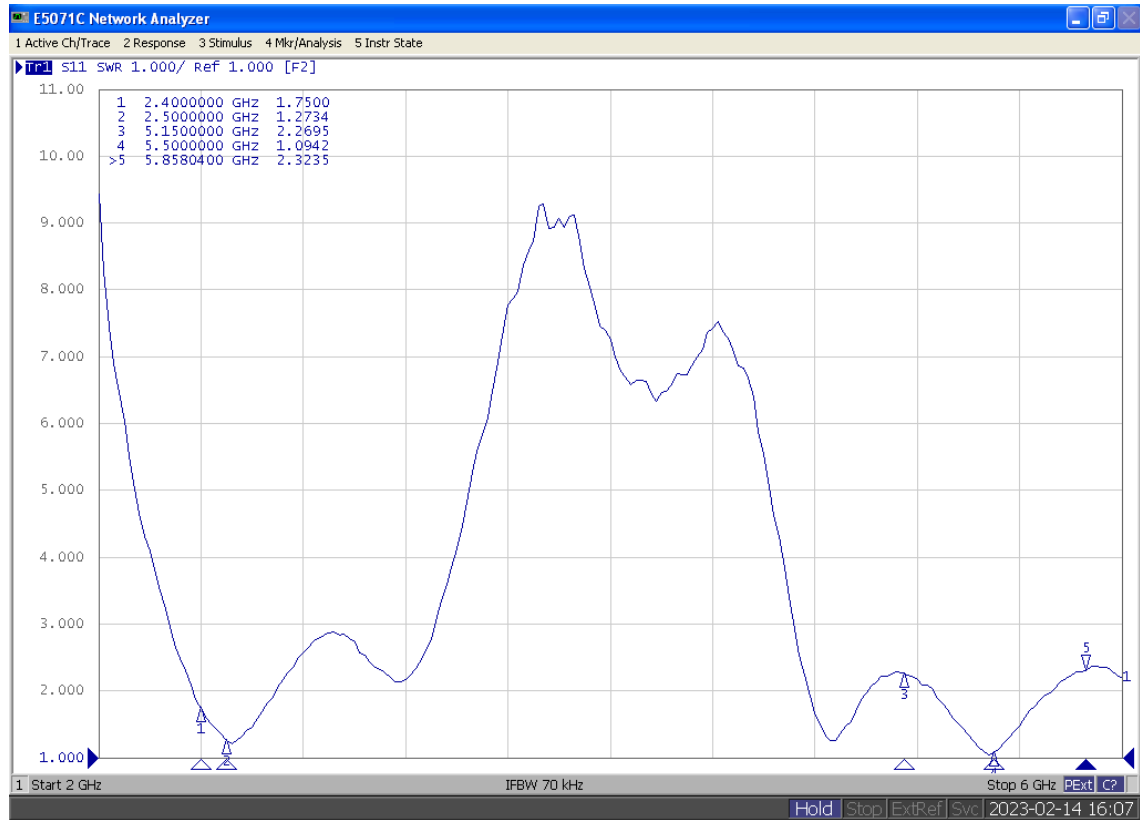
日期	修改内容	备注	
1	2	3	4

Shenzhen VLG Wireless Technology Co., Ltd		机种		X3000		日期		2023.02.15		页码		1 of 1	
第三角法		品名		Dual Band WiFi Antenna-RT		绘图		YW		RF确认			
10~20 ±0.10		料号		V2127-009-A-01		品质审核							
20~40 ±0.20		材质				结构审核							
> 40 ±0.25		表面处理		White		批准							
请勿实测图纸位置		外观处理				单位		mm		比例		版本 R:A	

4、产品规格描述 (Product specification describes)

电气参数 (Parameter)	
频率范围 (Frequency)	2400-2500/5150-5850MHz
带宽 (Bandwidth)	/
输入阻抗 (Impedance)	50 Ω
驻波比 (VSWR)	<2.0 / <2.5
增益 (Gain)	≤1.6dBi / ≤ 2.5dBi
最大效率 (Max. Efficiency)	≤59% / ≤32%
极化方式 (Polarization)	Linear polarization/Vertical
辐射方向图 (Radiation pattern)	Omni-directional
接口类型 (Connector)	RP-SMA
机械参数 (Mechanical Parameter)	
总长 (Length)	196.2mm
盐雾测试 (Salt Spray Test)	48H
环境参数 (Environment Parameter)	
工作温度 (Operation Temperature)	-20°C~65°C
储藏温度 (Storage Temperature)	-20°C~75°C

5、电气性能测试报告(Radiation Report)



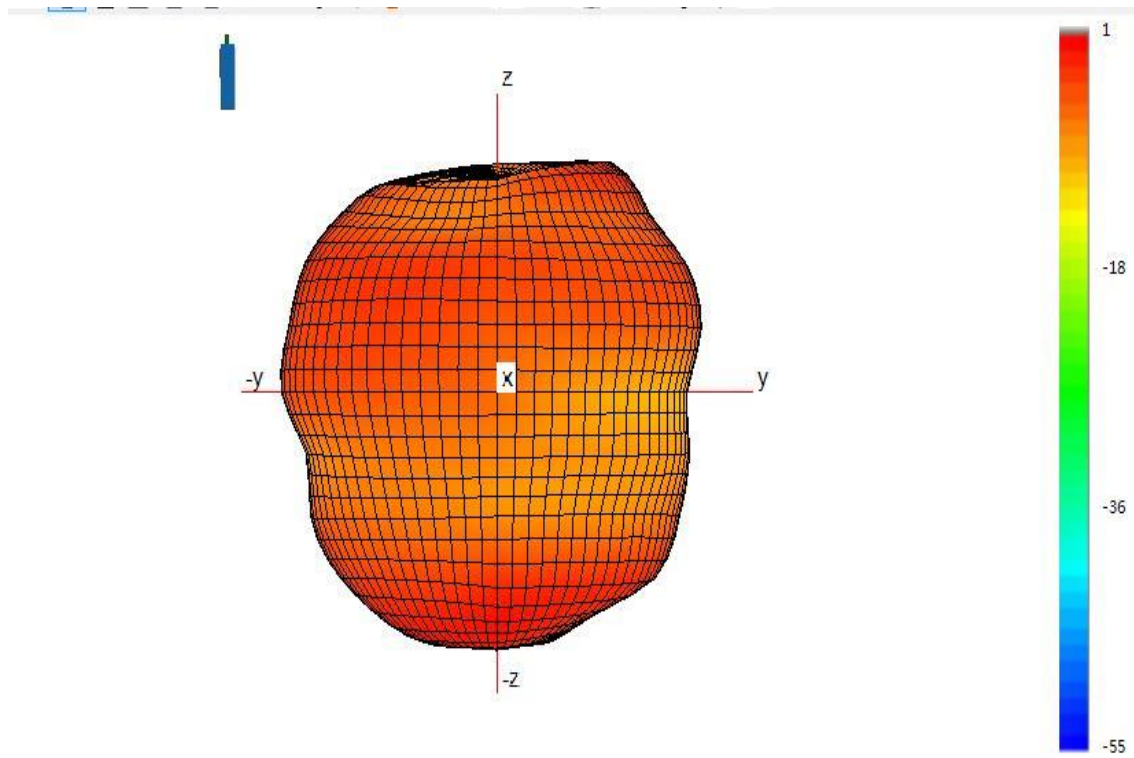
效率及增益(Efficiency And Gain)

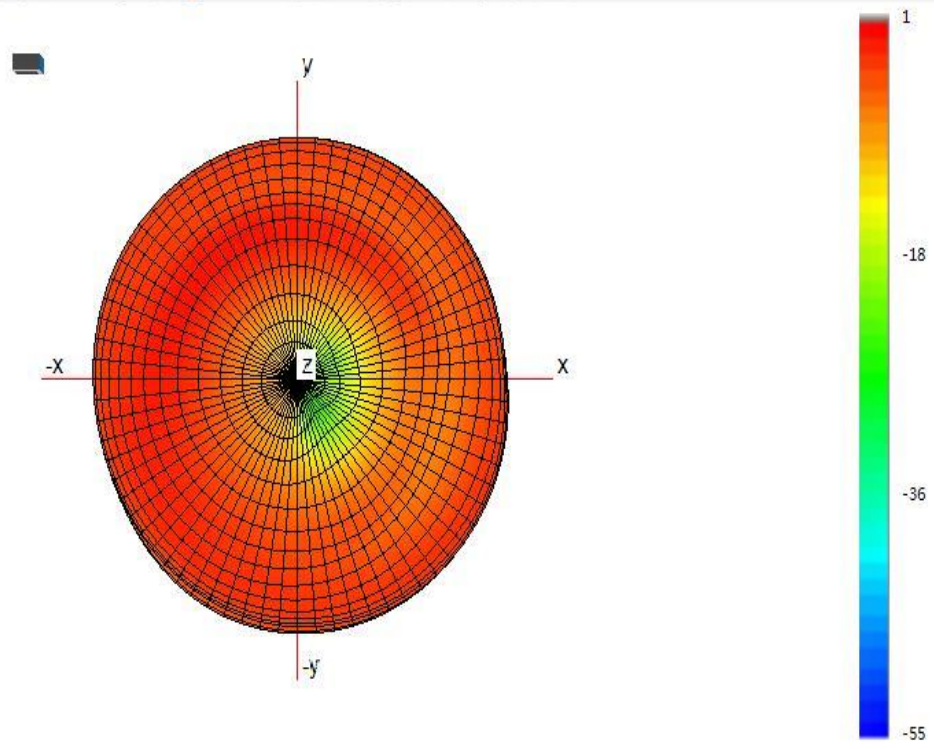
Frequency	Efficiency	Gain
2400	56%	1.47
2410	57%	1.5
2420	57%	1.5
2430	57%	1.63
2440	58%	1.52
2450	59%	1.53
2460	59%	1.54
2470	59%	1.55
2480	59%	1.58
2490	58%	1.53
2500	57%	1.57
5150	29%	2.3
5200	32%	2.5
5250	32%	2.1
5300	31%	2.0

5350	31%	2.0
5400	30%	2.0
5450	30%	2.0
5500	31%	1.7
5550	31%	1.6
5600	32%	1.8
5650	30%	1.7
5700	31%	1.8
5750	30%	1.7
5800	30%	1.7
5850	30%	2.1

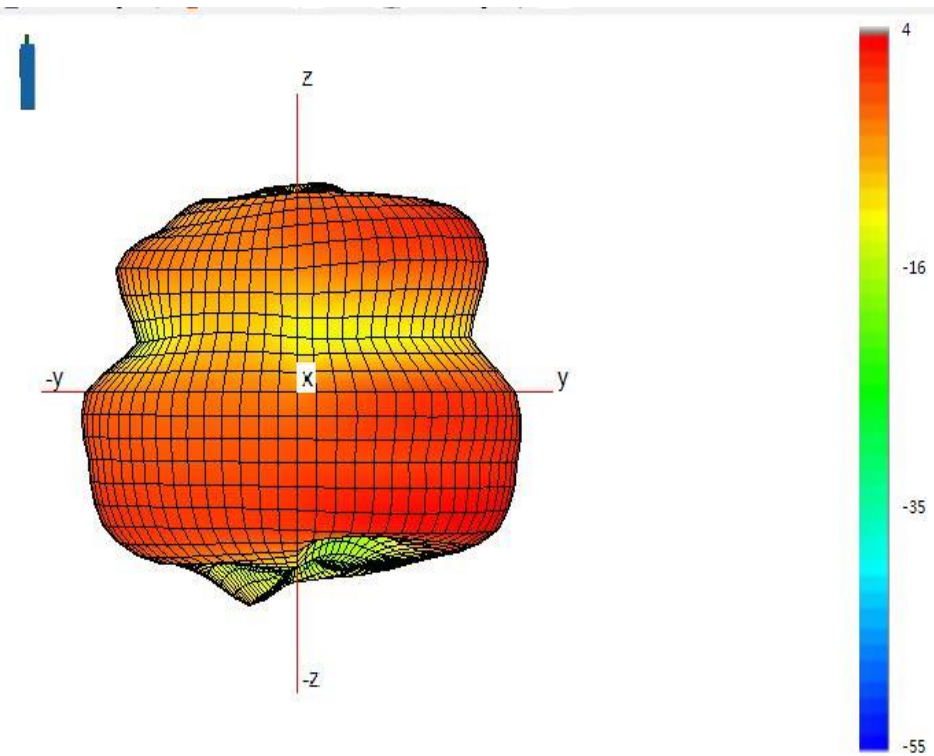
24400-2500MHz

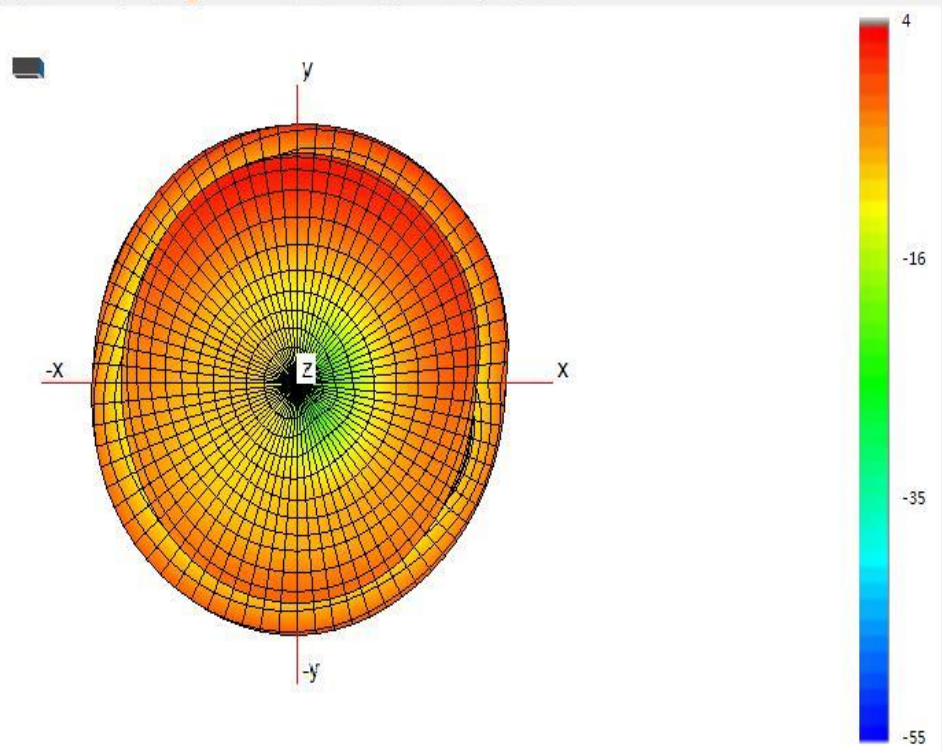
directional diagram





5150-5850MHz
directional diagram





6、尺寸报告(Reliability Report)

深圳市维力谷无线技术股份有限公司

ShenZhen VLG Wireless Technology Co.,Ltd

Sample size test report

Customer product name		product name	X3000					product type			
customer name		Product material no	V2127-009-A-01					Inspection personnel	JIANG TAO		
drawing version	R: A		unit	MM					Inspection date	2023.4.8	
NO.	Inspection items	test standard	Actual measured size					judgement result	detecting instrument	speotyto cunicularia	remark
			1	2	3	4	5				
1	appearance	See the appearance of poor phenomenon brief	OK	OK	OK	OK	OK	OK	visual inspection		
2	size	196.2 ± 2	196.1	196.3	196.2	196.2	196.1	OK	quadratic element		
3	size	13 ± 0.15	13.06	13.02	13.05	13.01	13.06	OK			
4	size	16 ± 0.15	15.98	15.96	15.97	16.02	15.99	OK	steel rule		
judgement result:			OK <input checked="" type="checkbox"/>		NG <input type="checkbox"/>						

inspector: JIANG TAO

audit: YU HONG

7、可靠性试验报告(Reliability Report)

深圳市维力谷无线技术股份有限公司

ShenZhen VLG Wireless Technology Co.,Ltd

Appearance, function and reliability test report

customer name			Test batch	
Customer product name			detect the number of	3PCS
product name		X3000	Inspection personnel	JIANG TAO
Product material no		V2127-009-A-01	Inspection date	2023. 4. 8
NO.	Inspection items	Description of test results		
1	inspection of appearance	Appearance conforms to appearance criterion		
	judgement result	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG		
2	可靠性检测	(一) low temperature test	Place the sample at a temperature of $-20\pm 2^{\circ}\text{C}$, store it at a low temperature for 48 hours, take it out and let it stand for 2 hours. Check that the appearance of the sample is normal and the electrical performance parameters meet the requirements 1. No mechanical property damage; 2. Electrical property meets the original test requirements 3. Appearance and assembly remain unchanged judgement result: OK <input checked="" type="checkbox"/> NG <input type="checkbox"/>	
		(二) Constant temperature and humidity	The sample was placed at a temperature of $70\pm 2^{\circ}\text{C}$ and relative humidity of 85%~90%. After 48 hours of constant temperature storage, the sample was taken out and stood for 2h. The appearance of the sample should be checked and the electrical performance parameters should meet the requirements 1. No mechanical property damage; 2. Electrical property meets the original test requirements 3. Appearance and assembly remain unchanged judgement result: OK <input checked="" type="checkbox"/> NG <input type="checkbox"/>	

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		(三) Salt spray test	<p>The sample shall be placed in the salt spray testing machine. The sample shall not overlap with the sample. The sample shall be placed at a tilt of 60-80 degrees from the horizontal plane as far as possible. At 35°C ± 2°C, wetness & GT; In 85% of the closed environment, within the PH range of 6.5 to 7.2, the samples were rinsed with clean water and blow-dried for 2h after continuous spraying with 5% ± 1% NaCl solution for a specified time</p> <p>1. No mechanical property damage; 2. Electrical property meets the original test requirements 3. Appearance without rust and oxidation judgement result: OK <input checked="" type="checkbox"/> NG <input type="checkbox"/></p>
		judgement result	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
3	Functional detection	(四) Elasticity test	<p>Place the product on the test instrument to check whether its performance meets the customer's requirements</p> <p>1. The elasticity conforms to the test requirements judgement result: OK <input type="checkbox"/> NG <input type="checkbox"/></p>
		(五) Tensile test	<p>1. The pull force meets the test requirements judgement result: OK <input type="checkbox"/> NG <input type="checkbox"/></p>
judgement result:			<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
Note: The PCB board shall not be tested for salt spray, and the shrapnel type shall be tested for elasticity			