



SPECIFICATION FOR APPROVAL

东莞市安特通信有限公司

CUSTOMER (客户名称)	Hunan Ouzhitong Technology Co., Ltd. (湖南欧智通科技有限公司)	
CS P/N (客户机种)		
PART NAME (品名)	External screwable antenna Male needle 2.4G&5.8G Black L=136MM ROHS	
FREQUENCY (频率)	2.4-2.5GHz&5.15~5.85GHz	
RTANT NO. (物料编号)	K212-10037-A	
DATE (日期)	2021.05.10	
出样签章		
APPROVED BY 核准	CHECKED BY 确认	DRAWED BY 制作
DRAGON	LIU	JOHN
Remark (备注):		
客户承认签章		
APPROVED BY 核准	CHECKED BY 确认	TESTED BY 检测
Sign(客户确认签字盖章): _____		

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1. Contents 项目表

No.	content 内容	Pages 页数
0	The cover of the confession(承认书封面)	1
1	List of items(项目表)	2
2	Change your resume(变更履历)	2
3	Physical drawing of product(产品实物图)	3
4	Specification sheet(规格表)	3
5	Electrical test report(电性测试报告)	4-7
6	Sample inspection report(样品检验报告)	8
附件	2D illustration/packaging(2D图/包装)	Appendices (附件)

2. Revision history 变更履历

Revision 版本	Date 日期	Change the content 变更内容
A0	21.05.10	New Edition(新版)

3. 产品实物图片Product picture



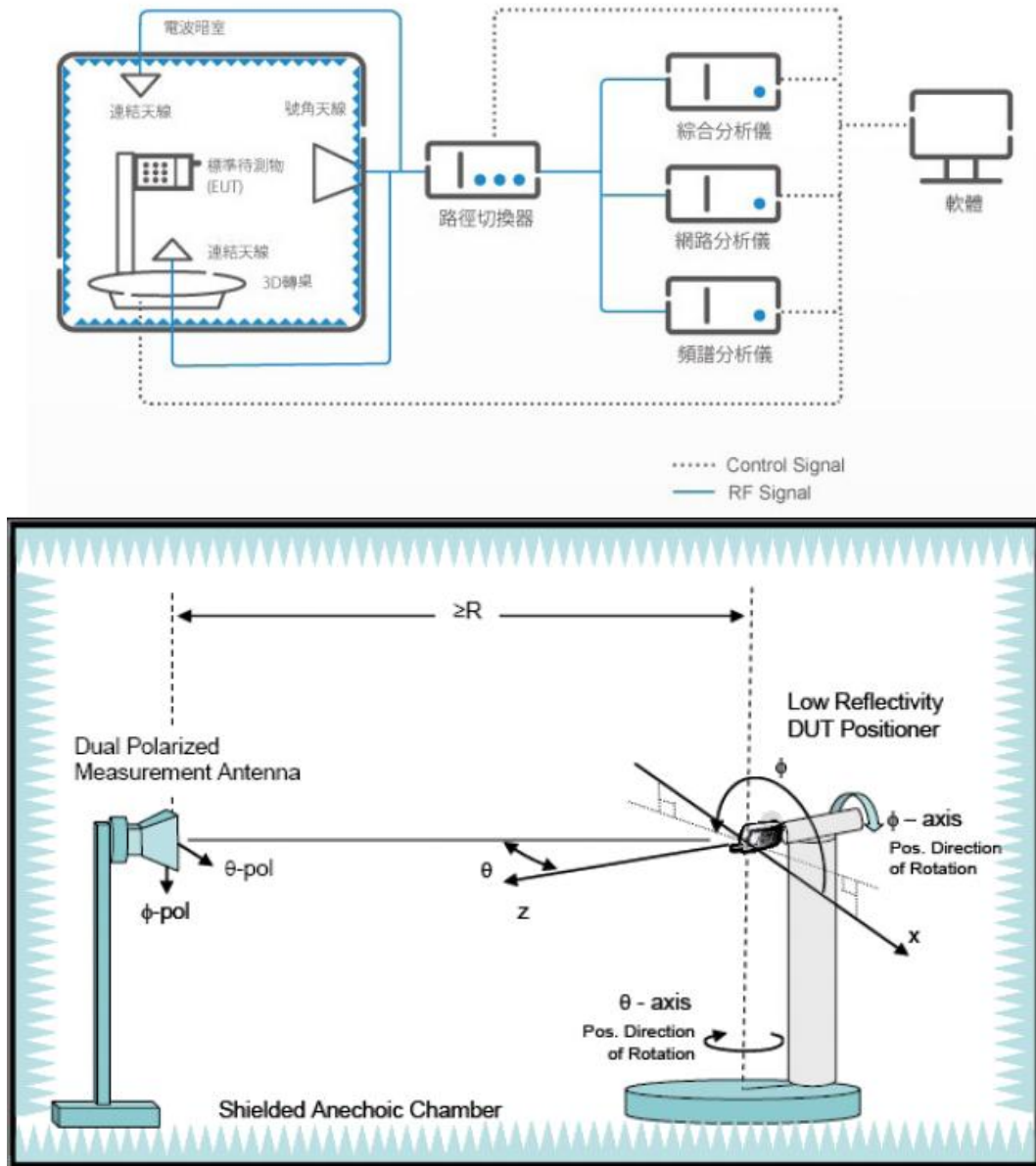
4. 规格表Specification

A. Electrical Properties	
Frequency Rang频段范围	2.4-2.5GHz&5.15~5.85GHz
Impedance特性阻抗	50 Ω Nominal
VSWR电压驻波比	2.0Max.
Gain(peak)增益（峰值）	BLE:2.98 dBi;2.4G WIFI:2.77 dBi
Out of roundness不圆度	3.0 dBi (Max.)
Radiation辐射方式	Omni-Directional/全向
Polarization极化方式	Linear Vertical/垂直
B. Physical Properties	
Connector Type连接方式	SMA
Cable线材	RG-178
Antenna Radiator天线振子体	PCB
C. Environmental	
Storage Temp存储环境范围	-10°C~+60°C
Operating Temp工作环境	-40°C~+65°C
Storage humidity存储湿度	95%
Working humidity工作湿度	5%~95%

5. 电性测试报告Electrical Test Report

5.1 Test equipment

OTA 系統架構圖



5.2 Antenna pasting position (天线粘贴位置)



5.3 Network Analyzer(网络分析仪测试报告)

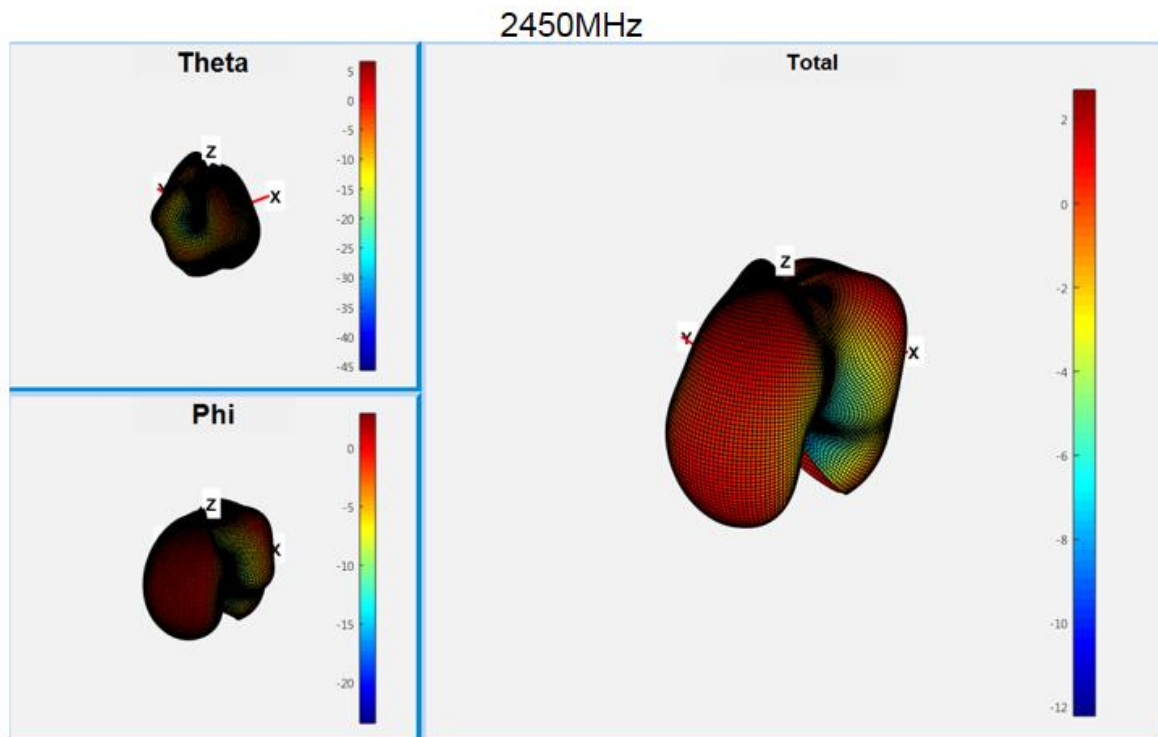


5.4 Darkroom passive test data(暗室无源测试数据)

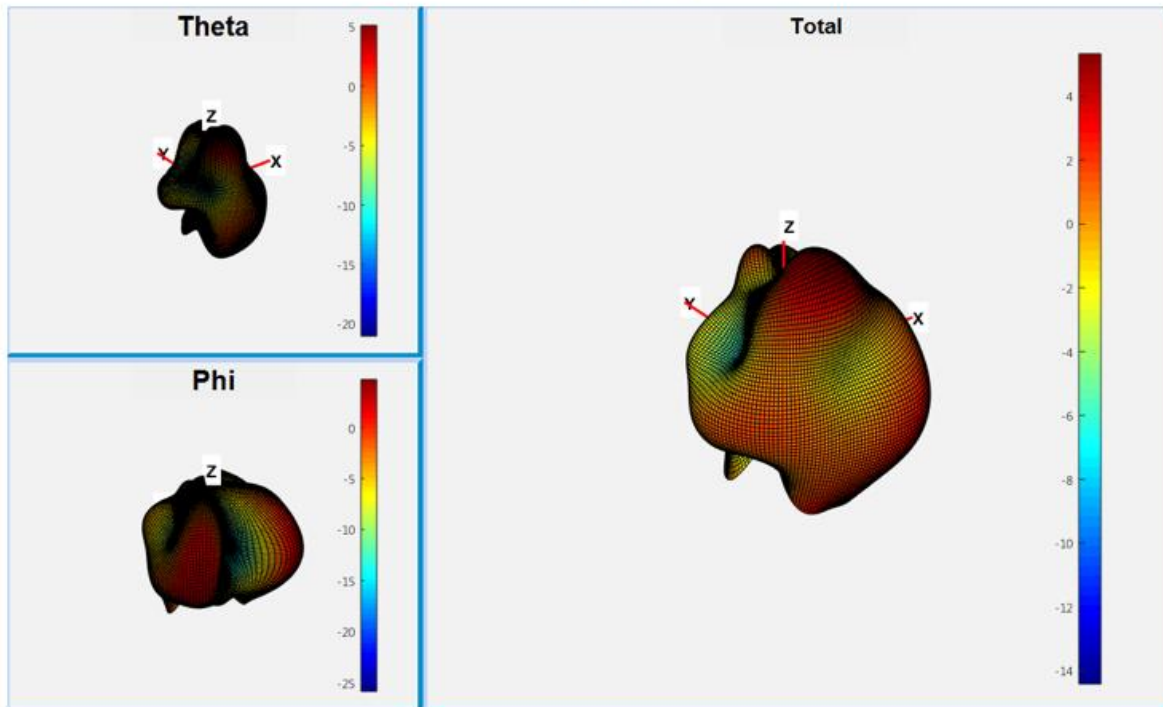
频率(Mhz)	2.4GHz	2.41GHz	2.42GHz	2.43GHz	2.44GHz	2.45GHz	2.46GHz	2.47GHz	2.48GHz	2.49GHz	2.5GHz
效率 (%)	65.11	67.5	73.11	71.2	68.51	70.99	70.78	75.94	77.72	81.62	81.86
增益 (dBi)	2.23	2.19	2.7	2.63	2.52	2.53	2.45	2.77	2.98	3.28	3.35

频率(Mhz)	5.15GHz	5.2GHz	5.25GHz	5.3GHz	5.35GHz	5.4GHz	5.45GHz	5.5GHz	5.55GHz	5.6GHz	5.65GHz	5.7GHz	5.75GHz	5.8GHz	5.85GHz
效率 (%)	61.45	58.55	65.51	71.66	66.74	62.78	72.6	69.07	67.62	69.98	64.64	67.62	69.25	71.85	72.99
增益 (dBi)	3.59	3.01	3.26	3.79	3.92	3.84	4.08	4.56	4.42	3.86	3.56	3.48	3.77	3.85	4.01

5.5 暗室2D、3DRaditation Pattern



5450MHz



9. 样品检验报告 Sample inspection report

日期: 2021. 5. 10



RTANT

Product Number: K212-10037-A

Product Name: External screwable antenna

Version: A0

Total quantity		5PCS	Qualified quantity		5PCS				
inspection item		Inspection standards and instructions	inspection result					judge	
			No.1	No.2	No.3	No.4	No.5		
Appearance	Plastic cement	No dirt, no damage, no scratch	pass	pass	pass	pass	pass	pass	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
	SMA	No color difference, no dirt, no damage, no scratch	pass	pass	pass	pass	pass	pass	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
	IPEX	Contrast no dirt, no damage, no scratch							<input type="checkbox"/> OK <input type="checkbox"/> NG
	Tin solder	Plump and smooth							<input type="checkbox"/> OK <input type="checkbox"/> NG
	Other								<input type="checkbox"/> OK <input type="checkbox"/> NG
Main dimensions	1	136 ± 3mm	136	136	136	136	136	136	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
Electrical and functional testing	Frequency Rang	2.4~2.5GHz 5.15~5.85GHz							
	VSWR	<2.0	pass	pass	pass	pass	pass	pass	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
Mechanical properties	Cable IPEX	> 1.5kg							<input type="checkbox"/> OK <input type="checkbox"/> NG
Note									
Final Judgment		<input checked="" type="checkbox"/> Qualified <input type="checkbox"/> Disqualified <input type="checkbox"/> Conditions							

