



东莞市森岭智能科技有限公司

DONGGUAN SLEing INTEL-TECH CO.,LTD

承 认 书

SPECIFICATION APPROVAL SHEET

客 户 :

CUSTOMER

客 户 料 号 :

CUS PART NO

版次:

REV

X1

品 名 / 规格 :

SPECIFICATION

5150-5850 MHz (White)

单重:

weight

WIFI5.8G Antenna L=150mm(Ø1.37+MHF)

供 方 料 号 :

SUP PART NO

SLEingA202410150

日 期 :

DATE

2023.12.14



厂 商 核 准 :

SUP APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED
<i>JongRei</i>	<i>SUN</i>	<i>LSY</i>	<i>Jerry</i>

客 户 核 准 :

CUS APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED

东莞市森岭智能科技有限公司

DONGGUAN CITY SLEing INTEL-TECH CO.,LTD

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正本由承办单位保存



东莞市森岭智能科技有限公司

DONGGUAN SLEing INTEL-TECH CO., LTD

变更记录

MODIFICATION RECORD SHEET

版本 (REV.)	更改日期 (Modification date)	更改内容描述 (Summary of modification content)	拟制 (Signature)	批准 (Approval)
X1	2023.12.14	初版发行 (First Issue)	胡赵海 (Jerry)	周琨 (Jongrei)



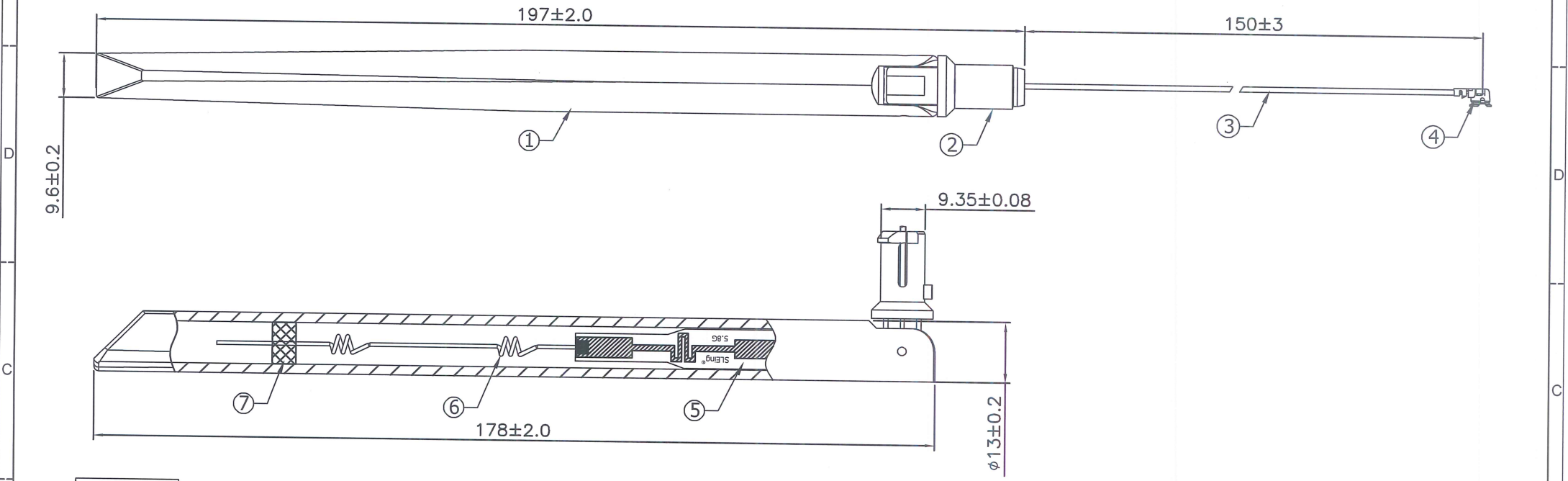
承认书项目表 (Spec Item)

序号(NO.)	项目(Project)	备注(Remark)	页码 (Page)
1	承认书封面 (Spec Cover)		1
2	变更记录 (MODIFICATION RECORD SHEET)		2
3	承认书项目表 (Spec Item)		3
4	工程成品图 (Drawing)		4
5	电性测试报告 (Test Reports)		5
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11	产品包装规范 (Product packaging specification)		11
12	ROHS清单(ROHS List)		12

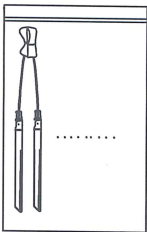
Give clear indication of:

1. The contents of the acknowledgement shall be arranged in order according to the items in the check sheet.
2. The number of copies of the acceptance letter shall be printed according to the customer's requirements, and the SGS report shall be stamped with the engineering seal.
3. All materials shall be confirmed by the customer. Any material/process/changes that may affect product quality and environmental quality must be re-sent to the customer for confirmation before import.
4. SGS report is valid for one year.
5. According to the contents attached to the actual acknowledgement, check the check form: "Yes" is provided, "no" is provided according to customer requirements.

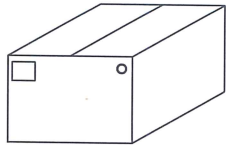
REV.	CONTENT	DATE
X1	First Sample	2023.12.14



Specification:
Frequency Rang:5.15~5.85GHz
Return Loss:-10dB or less
VSWR:1.92 Max



25pcs/Bundle
Packing:50pcs/bag



外箱须贴ROHS标签与物料标签各1PCS

7	Foam	L9*W8*T3mm		1
6	Helix	OD4.3*Φ0.8*T2*L78.7;Brass		1
5	PCB	L62*W9.3*T0.8mm,单面防焊黑油		1
4	Connector	MHF Plug for Φ1.37 Cable		1
3	Cable	Φ1.37mm Coaxial Cable Black,50Ω		1
2	Bottom Base	PC+PBT,Color:White		1
1	Antenna Cap	TPE,Color:White		1
NO	PART NAME	DESCRIPTION	REMARK	Q'TY

SLEing® 森岭
东莞市森岭智能科技有限公司
DONGGUAN SLEing INTEL-TECH CO., LTD

TOLERANCE UNLESS OTHERWISE SPECIFIED

UNIT:mm	ANGLES ±0.5°	X.	±0.3
SHEET: 1/1	.XX ±0.05	XX.	±0.5
SCALE: 1/1		XXX.	±2.0

CUSTOMER	东莞市森岭智能科技有限公司		
PART NO	2023.12.14		
TITLE	RF ANTENNA 工程部		
S.L P/NO	SLEingA202410150		
SIZE	DRAWN	CHECKED	APPROVED
A4	Jerry	SUN	Jongder



东莞市森岭智能科技有限公司

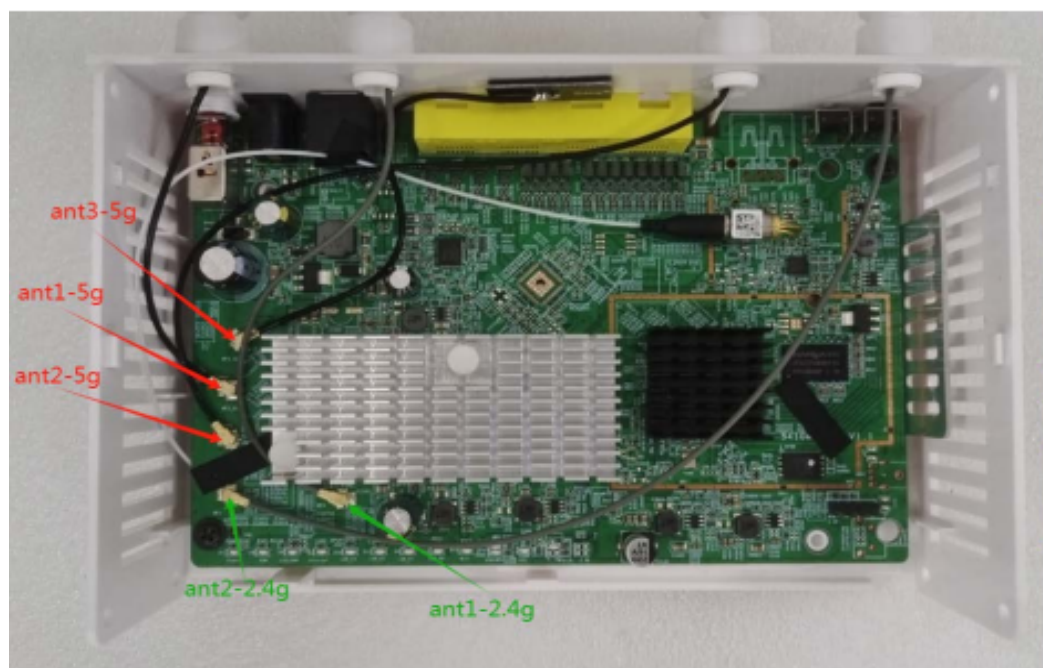
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电性测试报告

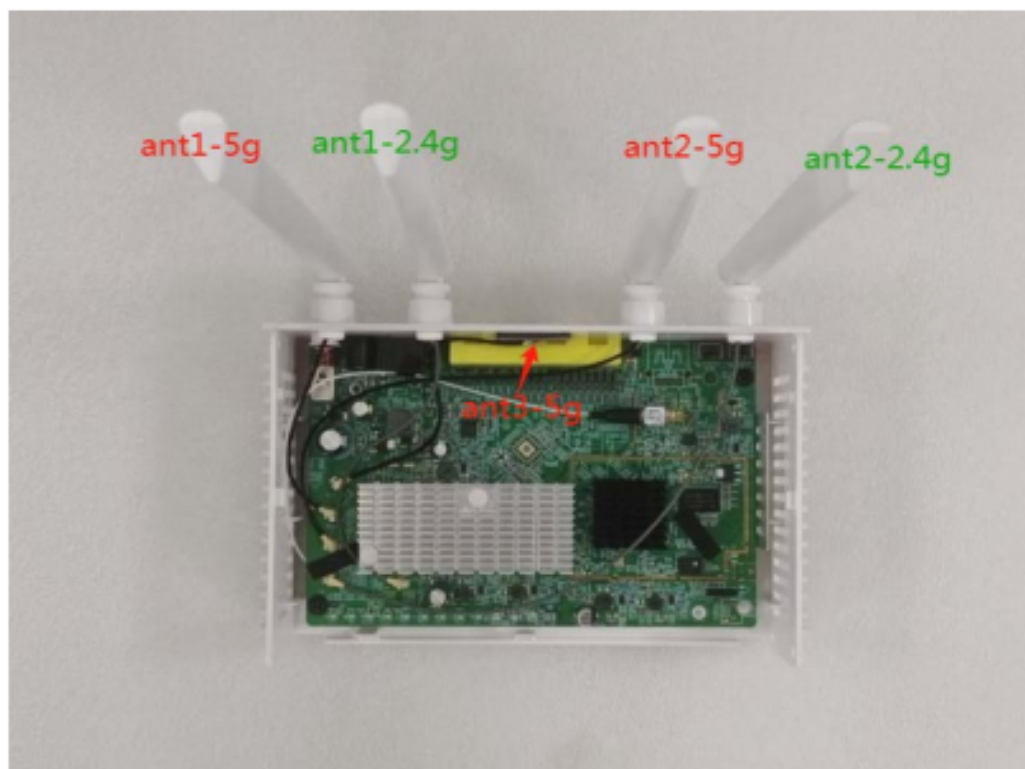
Test Reports

Electrical Properties	
Frequency	5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	10dB Max
Radiation	Omni-directional
Gain (Peak)	5.73 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	ABS/PC+PBT
Cable Type	$\Phi 1.37\text{mm}$ Black
Operating Temp	-20°C-75°C
Storage Temp.	-20°C-75°C

Device



Antenna



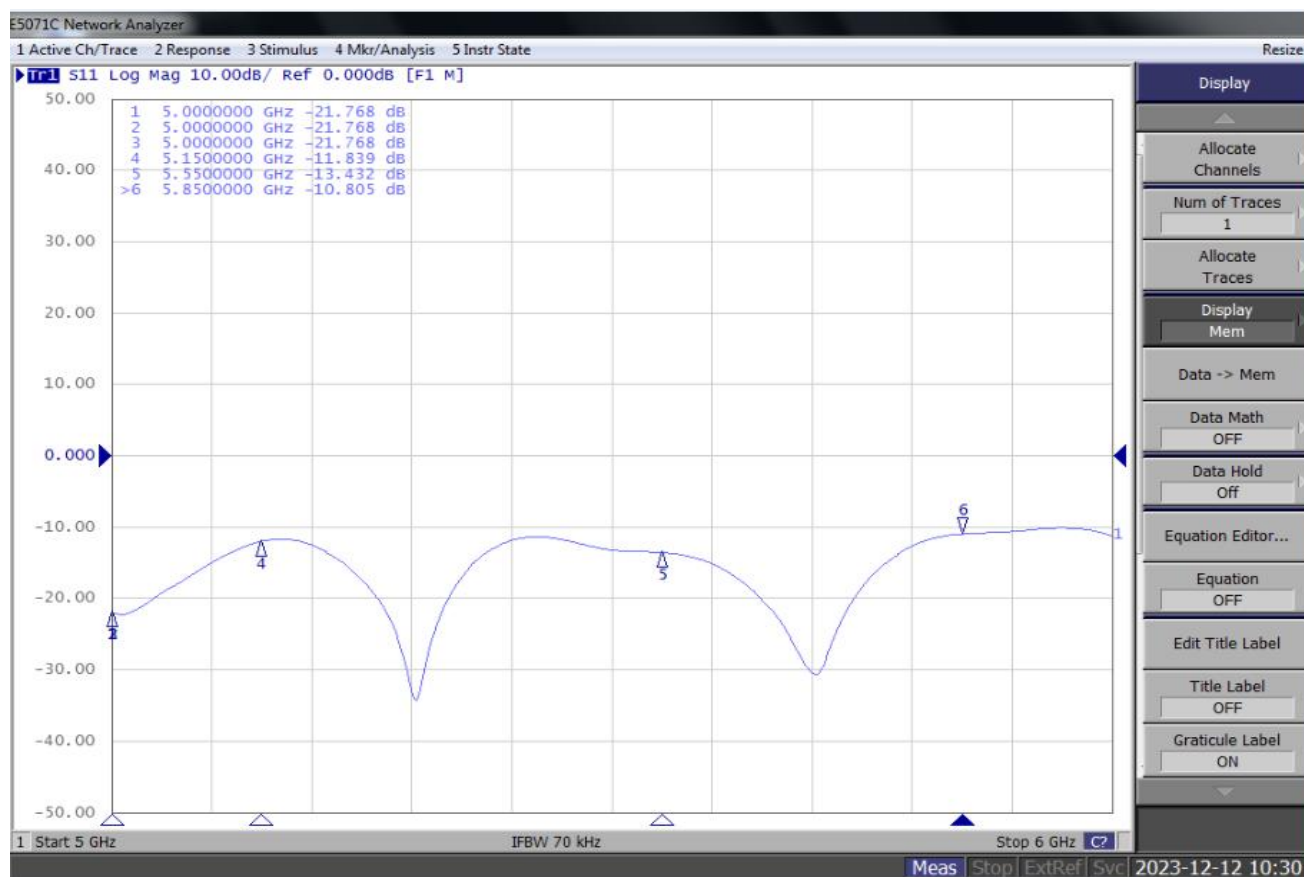
S参数测试

S Parameter Test

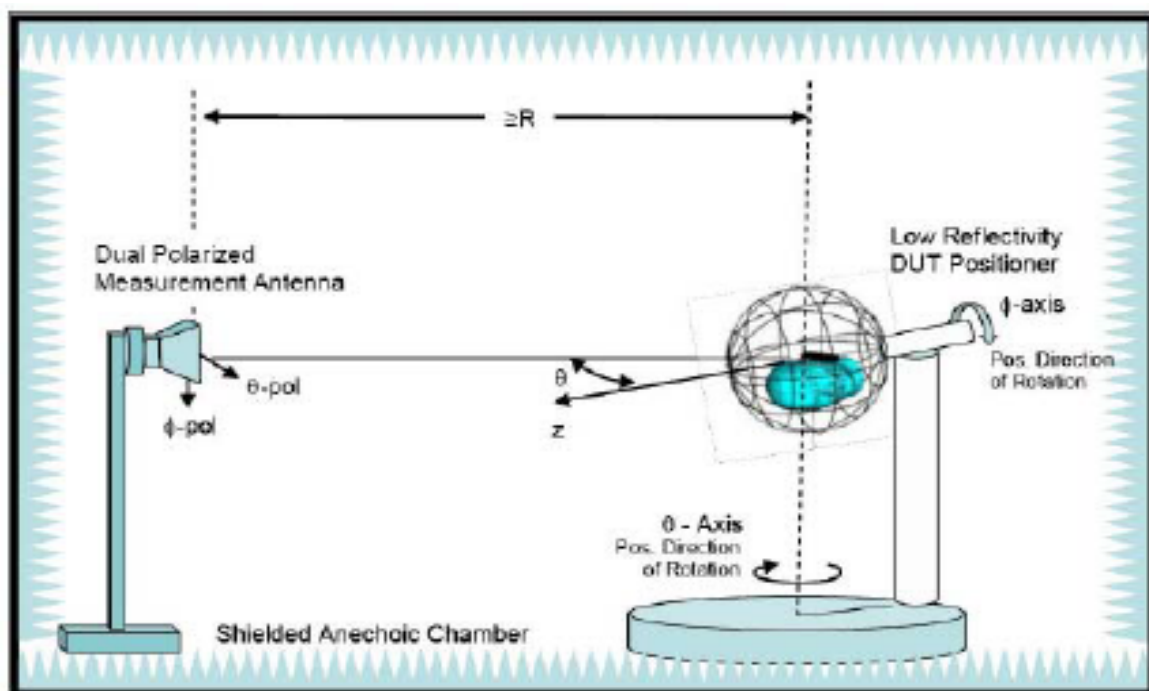
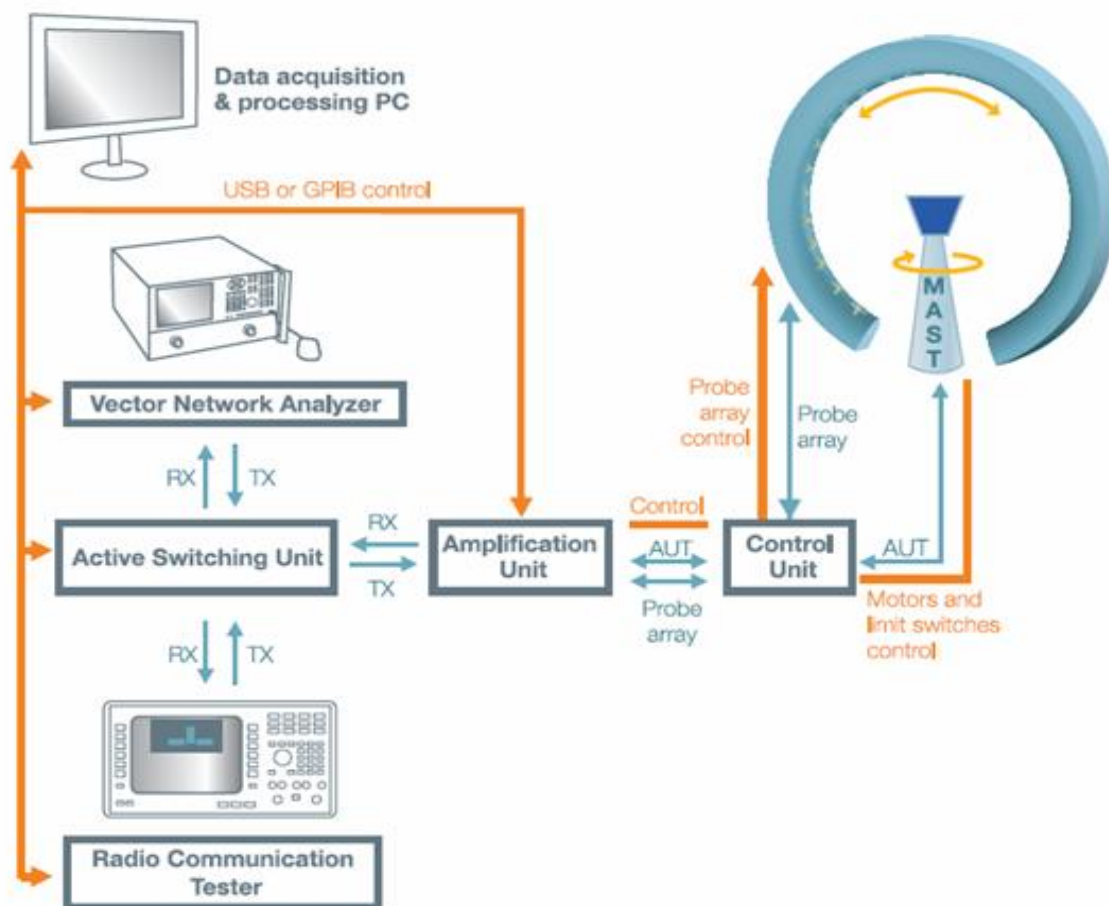
Agilent E5071C Network Analyzer



RF Antenna(Return Loss)



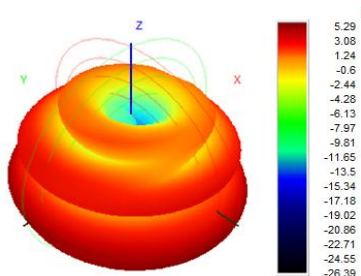
测试设备 Test Setup



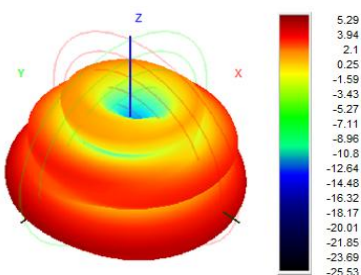
方向图 Pattern

3D、2D Raditation Pattern

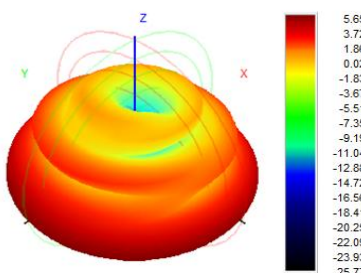
5.8 G低
频点



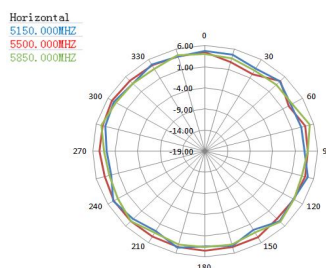
5.8 G中
频点



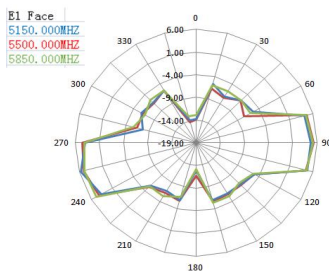
5.8 G高
频点



水平角度
2D方向
(低.中.
高)合成
图



垂直角度
2D方向
(低.中.
高)合成
图



测试效率 Test Efficiency

Frequency ID	1	2	3	4	5	6	7	8
Frequency (MHz)	5150	5200	5250	5300	5350	5400	5450	5500
Gain (dBi)	5.29	5.35	5.56	5.73	5.64	5.30	5.46	5.29
Efficiency (%)	64.83	66.35	67.13	68.21	62.58	67.87	65.15	67.18
Directivity (dB)	6.79	6.59	6.83	6.96	7.00	7.59	7.81	7.61

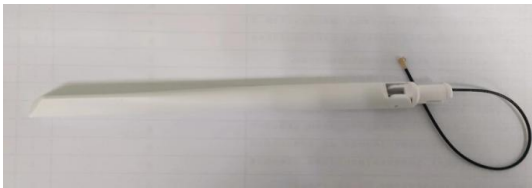
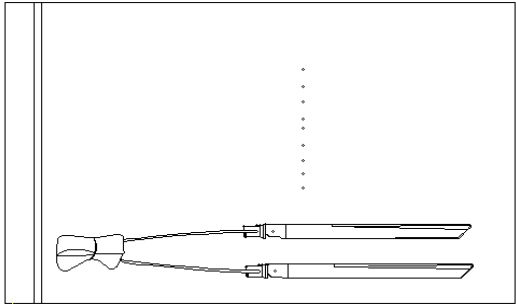
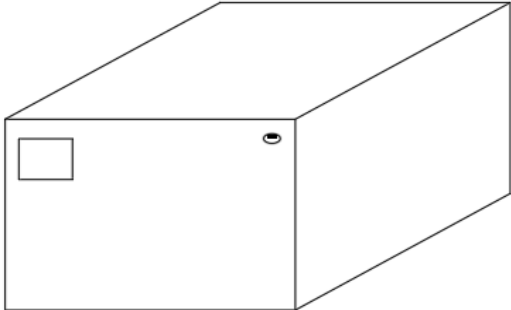
9	10	11	12	13	14	15
5550	5600	5650	5700	5750	5800	5850
5.54	2.29	5.49	5.34	5.17	5.46	5.65
67.32	60.94	66.36	65.93	68.69	63.98	64.89
7.40	7.24	6.98	8.79	9.13	8.98	9.12

产品包装规范

Product packaging specification

日期(Date) 2023. 12. 14

page: 1 of 1

成品名称 Name of finished product	5. 8G刀锋天线	客户 customer	
成品料号 Finished product number	SLEingA202410150	版本 REV.	X1
 单PCS天线 (2) 25PCS一扎，2扎（50PCS）装一PE袋，PE袋上需标贴产品标签，以标示产品名称、规格、数量、日期并热封处理。  (3) 装箱：每箱装10-40包共500-2000PCS  (4) 外箱均需贴产品标签，以标示产品名称、规格、数量、日期。 (5) 每批次产品均需附上“出厂检验报告”。 (6) 储存条件：温度：-5℃--+30℃，湿度：20%-70%，年限一年。			
承办 DESIGNED	胡赵海（Jreey）	审核 CHECKED	胡赵海（Jreey）
		核准 APPROVED	朱正锐（Jongrei）

产品各零部件ROHS清单(ROHS list of all parts of the product):

产品ROHS及REACH信息

产品信息				ROHS及REACH信息							
产品料号	部件名称	材质	供应商	ROHS报告编号	测试机构	报告日期	结果	REACH报告编号	测试机构	报告日期	结果
	杆套	ABS	台化	ETR22800801	SGS	2023.02.10	符合	/	/	/	/
	下固	PC+PBT	宇邦	CANEC23000634202	SGC	2023.03.13	符合	CANEC23000634201	SGS	2023.03.13	符合
	PCB	基材铜箔	上海国际	SHAEC2215949202	SGS	2022.12.27	符合	SHAEC2215950002	SGS	2022.12.27	符合
		阻焊油墨	蓝邦	CANEC23006104406	SGS	2023.07.17	符合	CANEC23001054202	SGS	2023.03.27	符合
		字符油墨	蓝邦	CANEC23006378502	SGS	2023.07.21	符合	CANEC2224590602	SGS	2022.11.21	符合
		OSP	豪杰行	SZNEC2300005501	SGS	2023.01.09	符合	SZNEC2300005503	SGS	2023.01.09	符合
	CABLE	金属	海联通	A2230079122101002E	CTI	2023.03.09	符合	A2230079122102002E	CTI	2023.03.13	符合
		非金属		A223007912210101ERJ	CTI	2023.02.09	符合	A2230079122102001E	CTI	2023.03.13	符合
	端子	铜	紫金铜业	CANEC2301145810	SGS	2023.02.08	符合	CANEC2301145815	SGS	2023.02.08	符合
		塑胶 PBT	新光	ETR23705937	SGS	2023.09.07	符合				
SMA	PIN针铜壳	南源铜材	CANEC2300141006	SGS	2023.01.10	符合	CANEC2300141008	SGS	2023.01.10	符合	
	铁氟龙	盛科达	TAOEC2305841002	SGS	2023.08.17	符合	TAOEC2305841102	SGS	2023.08.18	符合	
	锌合金	常森新材	SZXML2200496902	SGS	2023.02.09	符合					