



SPECIFICATION

APPLICATION FOR APPROVAL

客户名称 CUSTOMER :
客户案号 CS P/N : FPFAM
零件名称 PART NAME : M05.08.FPFAM003
耀登案号 DEVE NO. : AUK02787-
零件料号 PART NAME : A73839-31
承认日期 DATE : Jul. 8, 2026

总部

耀登電通科技(昆山)有限公司
江苏省昆山市周市镇迎宾路 15 号
TEL: 0512-57646998
FAX: 0512-57646168

Head Quarter

Auden Techno(KUNSHAN)CO.LTD
NO.15 YING-BIN ROAD, LUYANGTOWN, KUNSHAN, JIANGSU
CHINA

分公司:

耀登電通科技(昆山)有限公司西安分公司
西安市 高新区 唐延南路 10 号 中兴产业园 E1-04
TEL: 13382157879

Branch

Auden Techno(KUNSHAN)CO.LTD. Xi 'an branch
E1-04, zhongxing industrial park, no.10 tangyan south road,
high-tech zone, xi 'an

耀登電通科技(昆山)有限公司深圳分公司
地址: 深圳市南山区桃源街道红花岭工业区第五区 A 栋二楼 201-
202 (南区)
TEL: 185 8845 5257

Auden Techno(KUNSHAN)CO.LTD. Shenzhen branch
Address: 201-202, 2nd floor, building A, zone 5, honghualing
industrial zone, taoyuan street, nanshan district, shenzhen
(southern district)

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

INDEX

- 一、规格书封面 (Cover)
- 二、规格书目录 (Index)
- 三、天线基本参数 (The Basic Parameters)
- 四、电气测试报告 (RF Performance Test Report)
- 五、工程图纸 (Product Drawing)
- 六、尺寸报告 (Dimensional check reports)
- 七、可靠性测试报告 (Reliability test report)

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

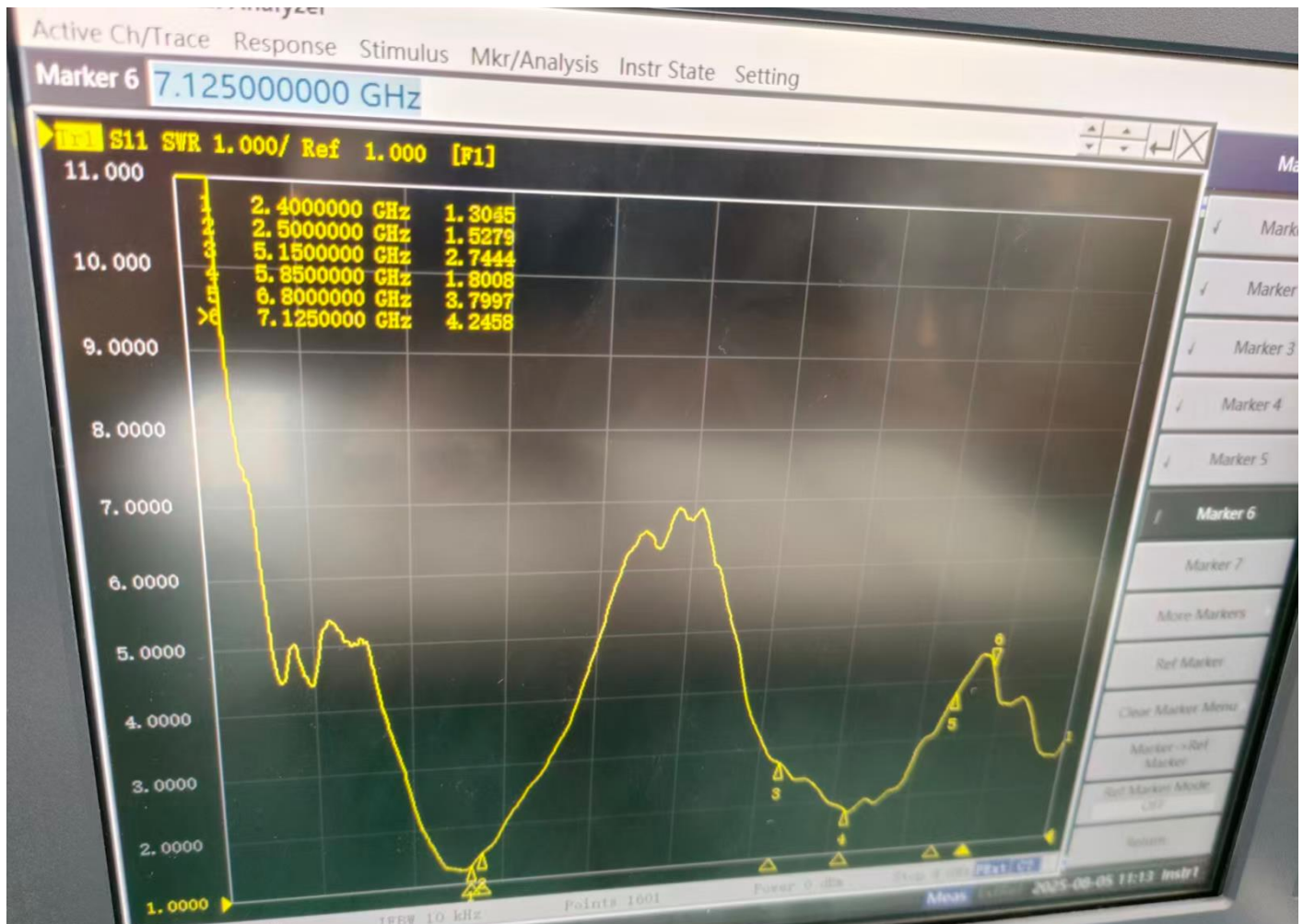
天线基本参数 (The Basic Parameters)

项目 (Item)	特性 (Specifications)
频率 (Frequency)	2.4g~5.8g
驻波比 (V. S. W. R)	≤ 2
增益 (Gain)	≤ 6
极化方式 (Polarization)	线极化
特性阻抗 (Impedance)	50 Ω
塑胶材质 (Plastic material)	无
接头形式 (joint type)	4 代端子+Cable
工作温度 (Operation temperature)	-40°C to 85°C
储存温度 (Storage temperature)	-40°C to 85°C
湿度 (humidity)	Non-condensing 65°C 95% RH
ANT	

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

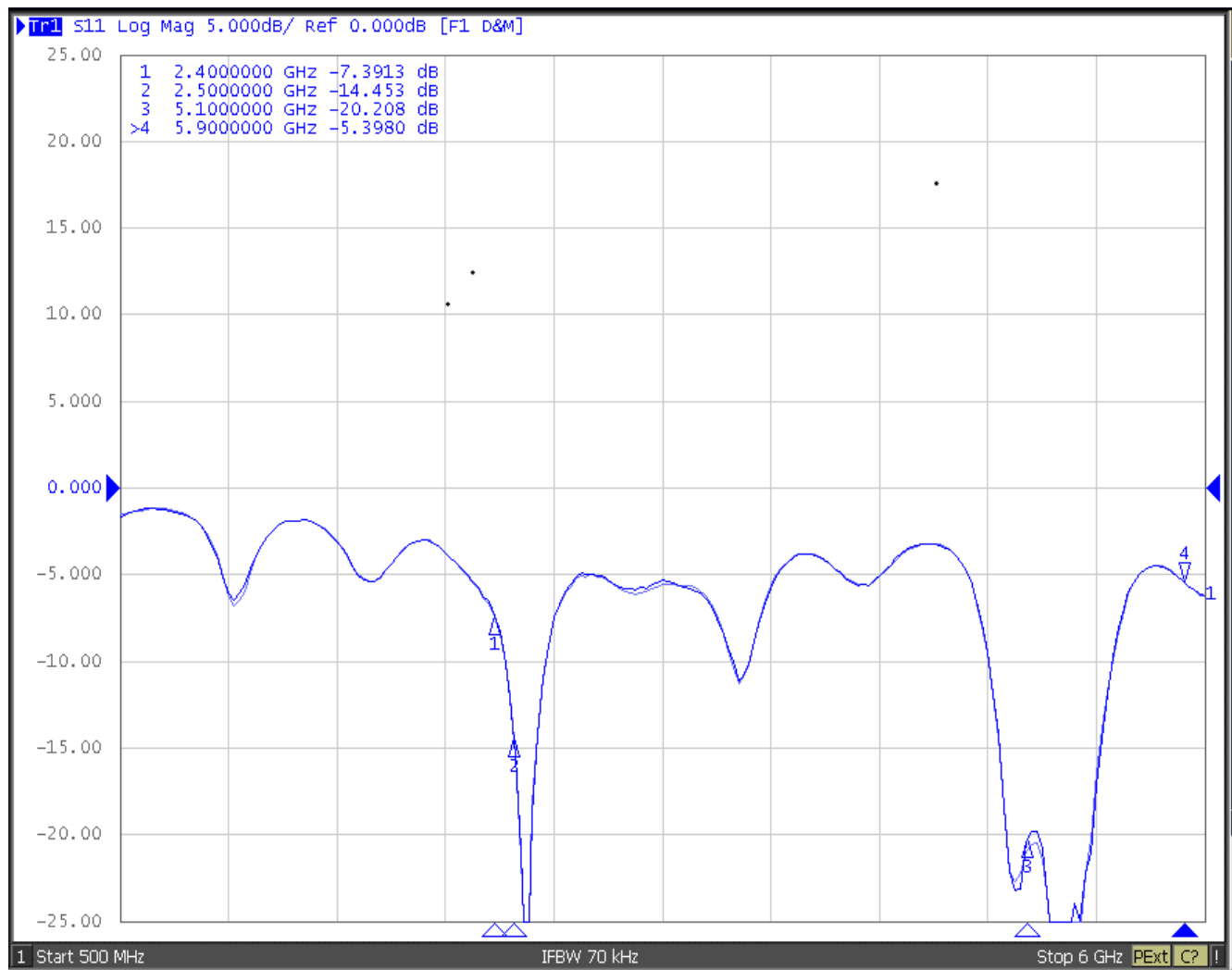
电气测试报告 (RF Performance Test Report)



CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

VSWR



CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.



Passive test data

	Efficiency-DB	Efficiency-%	Gain(dBi)
2400	-3.02	49.84	0.55
2410	-2.93	50.97	0.6
2420	-2.83	52.17	0.68
2430	-2.73	53.3	0.7
2440	-2.55	55.53	0.84
2450	-2.41	57.35	0.87
2460	-2.34	58.28	0.88
2470	-2.18	60.49	0.85
2480	-2.05	62.33	0.88
2490	-1.99	63.23	0.88
2500	-1.93	64.11	1.09
5150	-2.11	61.52	1.95
5200	-2.32	58.6	1.59
5250	-2.11	61.47	1.79
5300	-2.37	57.93	1.65
5350	-2.36	58.07	1.47
5400	-2.65	54.37	1.61
5450	-2.82	52.22	1.83
5500	-3.07	49.28	1.81
5550	-3.48	44.88	1.85
5600	-3.69	42.74	1.79
5650	-4.13	38.65	1.56
5700	-4.07	39.14	1.88
5750	-4.41	36.23	1.42
5800	-4.38	36.45	1.83
5850	-4.48	35.68	1.42
5925	-4.47	35.76	1.28
5975	-4.71	33.77	0.46
6025	-4.89	32.41	0.14
6075	-4.81	33.06	-0.1
6125	-5.13	30.69	-0.73
6175	-5.09	30.96	-0.27
6225	-5.35	29.2	-0.93
6275	-5.49	28.27	-0.62

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.



No perfect status,Always seek for better !

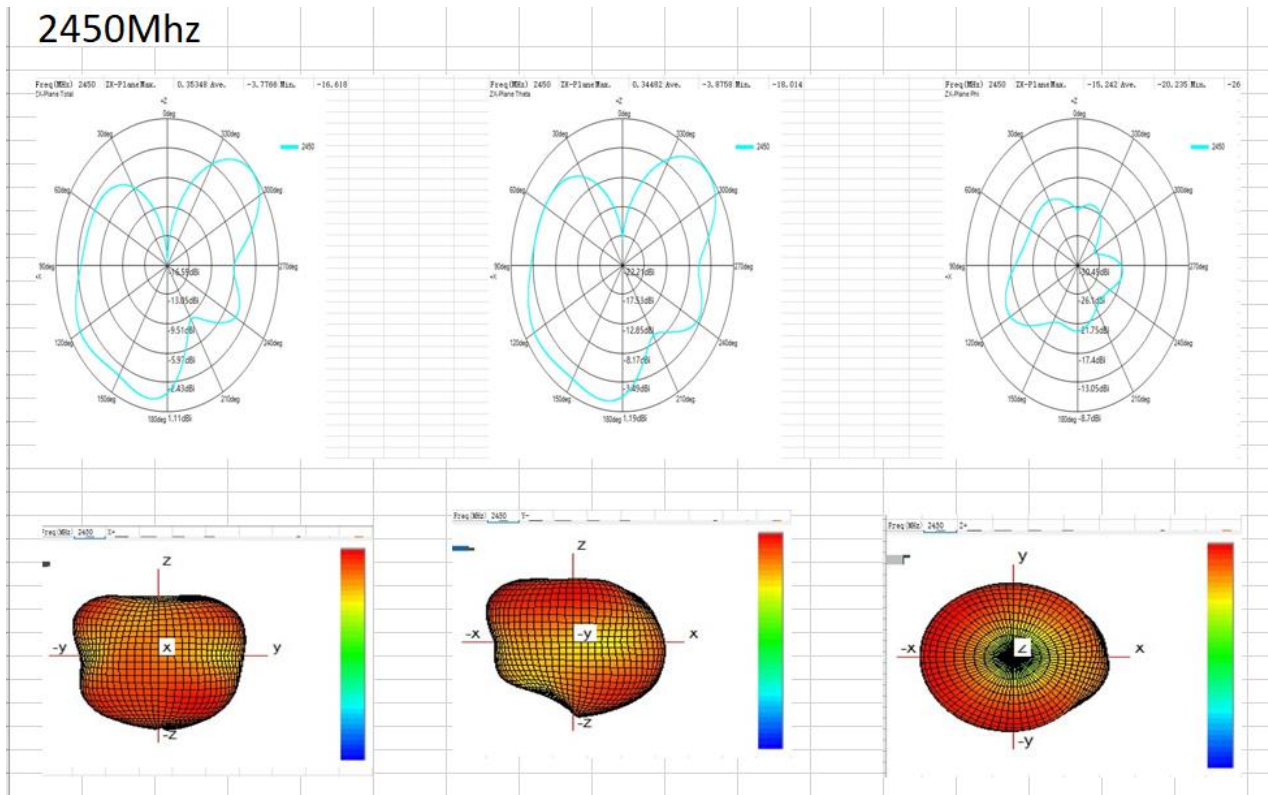
6325	-5.04	31.36	-0.1
6375	-5.37	29.07	-0.02
6425	-5.61	27.47	-0.31
6475	-6.04	24.91	-0.54
6525	-6.62	21.79	-1.77
6575	-6.88	20.51	-1.97
6625	-7.15	19.3	-2.65
6675	-7.42	18.11	-3.63
6725	-7.64	17.2	-3.8
6775	-7.38	18.27	-3.95
6825	-6.5	22.37	-3.16
6875	-6.02	25.02	-2.56
6925	-5.48	28.33	-1.61
6975	-4.01	39.69	0.17
7025	-3.65	43.16	0.61
7075	-3.77	42	0.65
7125	-3.89	40.83	0.06

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

2D/3D 数据

2450Mhz

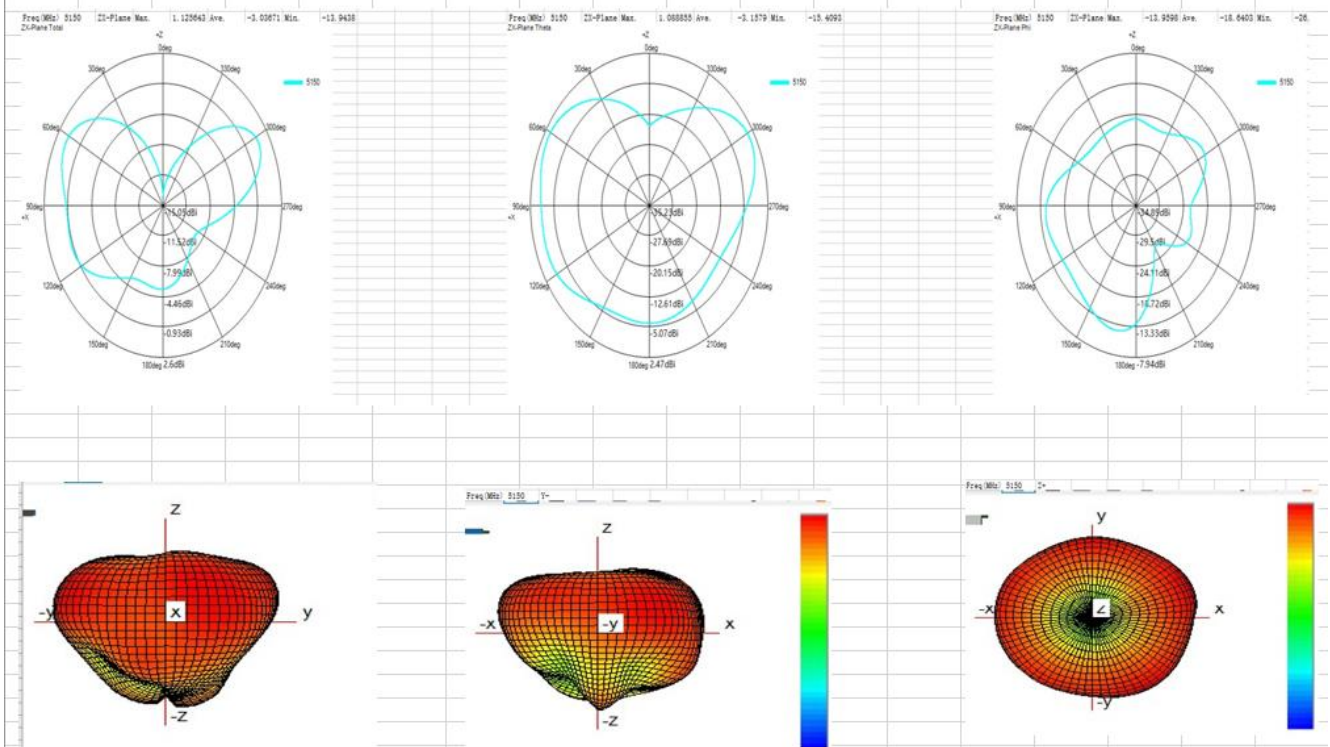


CONFIDENTIAL

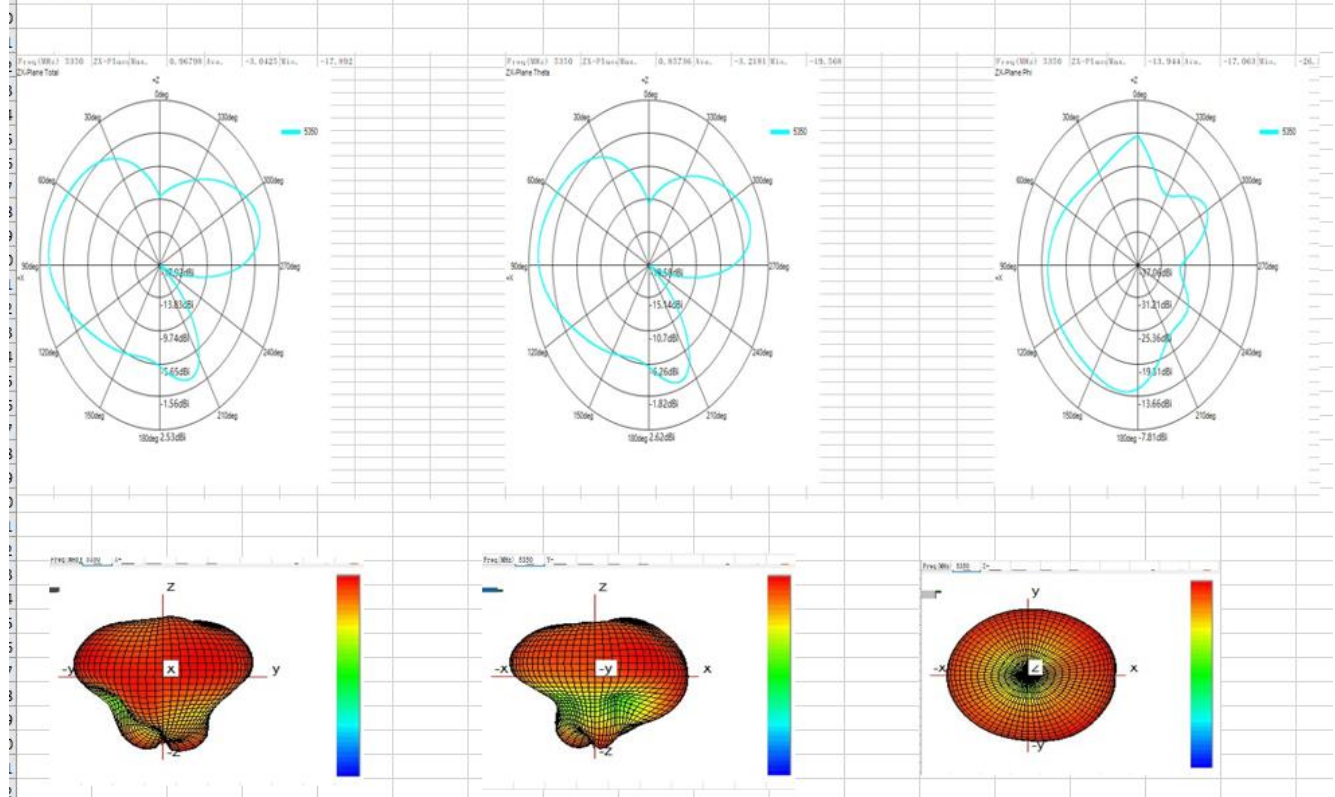
This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

No perfect status, Always seek for better !

5150Mhz

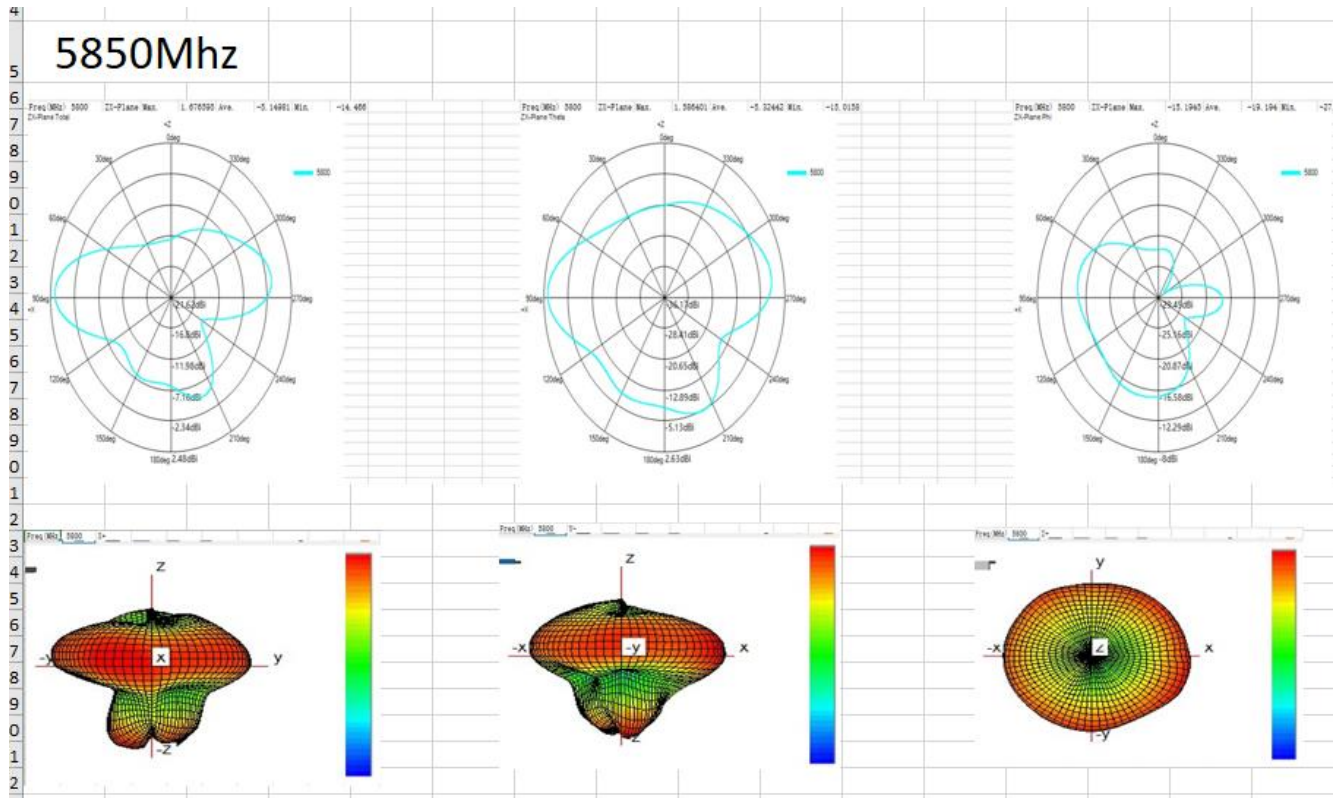


5350Mhz



CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.



工程图纸 (Product Drawing)

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

No perfect status,Always seek for better !

1		2		3				4			
客户料号		产品名称		规格型号		E.C.B.K. 工程变更单	Ver. 版本	STATUS 阶段	AREA 区域	DATE 日期	CONTENT OF CHANGE 变更事项
M05.08.FPFAM003		FPFAM		杆套天线			A			2025/10/20	发行图档
							B			2026/04/28	增加技术要求描述
							C		▲	2026/06/16	SMA改为内孔

0.7±(ref) @2

2.5±

137±2

111±1.5

1/4-36UNS-2B

2PCS杆套天线组合成一个成品料号

SMA公头（内螺纹+孔）▲

技术要求:

- 外观无划痕, 毛刺, 脏污, 裂纹等不良;
- 可折弯90° 至少200次以上, 折弯后不能有碎屑掉落;
- SMA接头扭力300-1000N;
- 带“A”尺寸为入料必检尺寸;
- 2PCS杆套天线为一套成品装入自封袋, 包装参考包装规范。

序号	名称	材料	用量	表面处理	备注
5	SMA组件	C3604	1	接头镀镍	SMA公头母针
4	转轴销	PC+PBT	2	黑色	/
3	下转轴	PC+PBT	1	黑色	/
2	上转轴	PC+PBT	1	黑色	/
1	天线外壳	PTEE	1	黑色	/

★ 环境物质要求:RoHS

铅(Pb) <100ppm
汞(Hg) <1000ppm
多溴联苯(PBB) <1000ppm
邻苯二甲酸二丁基酯(DBP) <1000ppm
邻苯二甲酸二正丁基酯(DBP) <1000ppm
邻苯二甲酸二(2-乙基己基)酯(DBP) <1000ppm

★ 环境物质要求:HF

BR/900; CL/900; BR+CL/1500

图档标注尺寸总计5个, 其中重点尺寸3个, 带☆尺寸0个

图名	料号	适用机种	开发案号
总装	A73839-31	A73839-31	AL/K02787-杆套

投影

图幅	比例	文件编号/版本
MM	1:1	AD-QP-0002-24/C

图幅 A4 共 1 页 第 1 页

auden 登电科技(昆山)有限公司 AUDEN TECHNO (KUNSHAN) CO. LTD

作成 陈古文 检图 袁瑞阳 确认 王汉林

包装规范

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

作业说明书

 		制程站别	包装		项次	5	
		开发编号	AUB02787		产品名称	A73839-30	

 1. 点取2PCS成品, 方向一致, 放置自封PS袋	 2. 将产品装入内盒, 130PCS/盒	 3. 内盒左上角贴客户标签RoHS 2.0+HF 标签, 右下角贴MES标签。	项次	名称	料号	数量
			1	成品	A73839-30	1300
			2	自封PS袋	50*160mm	650
			3	内盒	820054-00	10
			4	纸箱	820055-00	1

设备、夹具、治具名称		
项次	名称	数量
连接参数		
1	电子秤	1台
2	电脑	1台
3	标签打印机	1台
4	扫码枪	1把
注 意 事 项		
1. 此工站必须戴手套作业;		
2. 注意包装数量, 避免出现短装、溢装现象;		
3. MES标签打印请参考MES操作SOP		

版次	版次生效日期及文件管理单位发行掌日期	资料中心	工程	品保	自动化开发部	核准	制定
A		潘美丽	王旭	蒋文娟	王宇成	陈坚	黄小姝

扭力测试

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.

扭力测试对照					
序号	客户限度样数值 (g)	扭力自测 (gf • cm)			
		1	2	3	平均值
1	20	350	300	300	316.6667
2	30	400	350	350	366.6667
3	60	550	600	530	560
4	70	650	600	580	610
5	90	850	950	900	900

序号	当前SMA接头零件扭力测试数值 (gf・cm)				含缩口的SMA接头零件测试数值 (gf・cm)				
	1	2	3	平均值	1	2	3	平均值	
1	600	490	500	530	550	600	580	576.6667	
2	450	420	400	423.3333	550	500	550	533.3333	
3	500	530	470	500	450	470	450	456.6667	
4	300	350	320	323.3333	550	550	560	553.3333	
5	400	420	450	423.3333	450	410	450	436.6667	
6	420	450	400	423.3333	500	400	450	450	
7	400	400	400	400	550	550	600	566.6667	
8	700	660	650	670	520	550	480	516.6667	
9	300	350	320	323.3333	450	450	400	433.3333	
10	400	420	400	406.6667	540	500	570	536.6667	
			总平均值	442.3333				总平均值	506
			Max-Min	346.6667				Max-Min	143.3333

序号	当前成品SMA接头扭力测试数值 (gf・cm)				含缩口的成品SMA接头测试数值 (gf・cm)			
	1	2	3	平均值	1	2	3	平均值
1	600	600	650	616.6667				
2	500	550	500	516.6667				
3	600	600	550	583.3333				
4	450	450	500	466.6667				
5	450	500	550	500				
6	400	600	550	516.6667				
7	450	470	420	446.6667				
8	550	450	500	500				
9	400	450	490	446.6667				
10	650	700	550	633.3333				
			总平均值	522.6667				总平均值
			Max-Min	186.6667				Max-Min

全尺寸报告

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.



Auden Techno(KUNSHAN)CO.LTD ANTENNA SPECIFICATION

No perfect status,Always seek for better !

全尺寸测量报告

Vendor(供应商)						Part NO(料号)		A73839-30								Tool Number (模号)		Cav. Number (穴数)		Unit(单位)				Comments (设计者签字)																							
						Part Name (零件名称)		AUK02787										/		INCHES		■MILLIMETERS																									
日期		2025/10/20				MEASURED DIMENSION(实测尺寸)										% TOLERANCE USED(公差使用百分)		DISPOSITION						ACCEPTABLE VARIANCE																							
DIM. #	DIMENSION	DRAWING G ZONE	+ TOL.	- TOL.	NOTE	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6	SAMPLE 7	SAMPLE 8	SAMPLE 9	SAMPLE 10	UPPER	LOWER	0%-25%	25%-50%	50%-75%	75%-100%	100%+ Re-Measure	Accept	Fix Tool	Accept	With Variance	DIMENSION	+ TOL.	- TOL.																		
1	137	1A	2	2		135.728	135.773									0%	64%			X																											
2	111	2A	1.5	1.5		110.287	110.290									0%	48%		X																												
3	2.5	3A	0	0.2		2.433	2.451									0%	34%		X																												
4	10	1	0.1	0.1		10.062	10.055									62%	0%			X																											
5	0.7	2	0.2	0		0.715	0.726									13%	0%	X																													
核准: 童政裕																审核:																制表: 纪沅坤															

可靠性测试

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.



耀登电通科技（昆山）有限公司

可靠性测试汇总报告

客户	美高	客户机种		耀登机种	AUK02787	料号		A73839-30			
可靠性测试项目及要求						测试结果					备注
序号	测试项目	测试时间	测试仪器	测试条件	判定标准	1	2	3	4	5	
1	盐雾试验	2025/10/20	盐雾测试机	将产品放于盐雾试验机中，在35℃±2℃的密闭环境中，PH值在6.5-7.2范围内，用5%±1%的Nacl溶液连续48h盐水喷雾后，将样品用清水冲洗干净后检查天线外观；	表面无锈蚀、镀层剥落、起泡等不良影响，RF测试通过为合格。	OK	OK				 AUK02787 A73839-30 2025
2	低温试验	2025/10/20	恒温恒湿机	将产品放置在温度为-40℃±2℃的低温环境存贮48h，试验完成后在常温环境下放置2小时后检查产品外观。	部件无裂痕、明显的变形、脱落，RF测试通过为合格。	OK					 AUK02787 A73839-30 2025
3	高温试验	2025/10/20	恒温恒湿机	将产品放置在温度为85℃±2℃的高温环境存贮48h，试验完成后在常温环境下放置2 h后检查产品外观。	部件无裂痕、明显的变形、脱落，RF测试通过为合格。	OK					 AUK02787 A73839-30 2025
5	拉力试验	2025/10/20	拉力机	固定产品杆套，顺杆方向180°，25±3mm/min速度，进行分离测试	拉力需 > 98N	OK	OK				 AUK02787 A73839-30 2025
6	弯折寿命测试	2025/10/20	/	可折弯结构的外置天线(通常在 45 度、90 度位置有折弯顿挫感)，手动以 (30±5) 次/分钟的速度，90 度折弯 500 次	1.试验完成后，将天线折弯至45度、90度角位置时，天线需保持位置，不可自由滑落移位。 2.折弯时无异音，关节部位无明显磨损掉粉末	OK	OK				 AUK02787 A73839-30 2025
试验结果判定				可靠性试验合格							
核准：童政裕				审核：				测试员：纪沅坤			

SGS 报告

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.



Auden Techno(KUNSHAN)CO.LTD ANTENNA SPECIFICATION

No perfect status,Always seek for better !

耀登电通科技（昆山）有限公司

SGS清单

填写说明:

- 1、按下列表格展开产品的成份或部件。
- 2、不同的成份或部件需提供相应的测试报告以及物质安全成分(MSDS)文件，测试项目为: Cd、Pb、Hg、Cr6+、PBB、PBDE、DEHP、BSP、DIBP*。
- 3、有害物质含量必须满足客户（供应商ROHS管理规定）要求。

产品/物料名称	产品/物料代码	产品/物料版本	组成部件	组成部件代码	组成部件均质材料名称	原材料厂商名称	宣告均质材料中有害物质含量 (ppm)										有害物质测试报告编号	测试日期 (YY-MM-DD)	豁免条款	ROHS报告	备注
							Cd	Pb	Hg	Cr6+	PBB	PBDE	DEHP	BSP	DIBP						
AIR02787-杆套	A73839-30	A00	杆套+固定座	471225-00	天线外壳(TPEE)	摩盛	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	A2250006875128004	2025/2/25					
					转轴销(TPEE)		N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D						N.D	
					上下盖(PC+PBT)		N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	A2250006875128001		2025/2/25			
			SMA接头		铜(C3604)		N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	CANEC25004281302	2025/3/12				
					镀镍		N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	A2250135600101003	2025/5/25				
					铁氟龙(TPEE)		N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	CANEC24027638301		2024/12/13		

签署人保证已获得公司充分授权，并保证本表格的内容及所用的测试报告完全准确、真实。

被授权声明人:	葛丽兰	公司法定代表人姓名:	张玉斌
授权声明人所属部门:	品保	职位:	董事长
授权声明人职位:	DCC		
声明日期:	2025/8/15	签名:	
签名:			

公司名称: 耀登电通科技（昆山）有限公司

加盖公司印章:

CONFIDENTIAL

This message contains information that may be confidential and privileged. Unless you are the addressee (or authorized to receive messages for the addressee), you can not use, copy or disclose to any third party or any information contained in the message. If you have received the message in error, please advise the sender by reply e-mail and delete the message. Nothing in this message should be interpreted as a digital or electronic signature that can be used to authenticate a contract or other legal document. Thank you very much.