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Shenzhen, China

深圳市亿圣邦科技有限公司

The Holy bond Electronics Co., Ltd. Antenna Test Report

Customer: 科金明

Project: T800

Product: WIFI Antenna—FPC

Report date: 2024.06.07

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Checked by : Eason Huang

Approved by :



Purpose

This report is to measure the performance of SLK for Master Antenna on 科金明. All measure data are showed below.

Content

1. Product Overview

2. Test Result

2.1 VSWR/S11

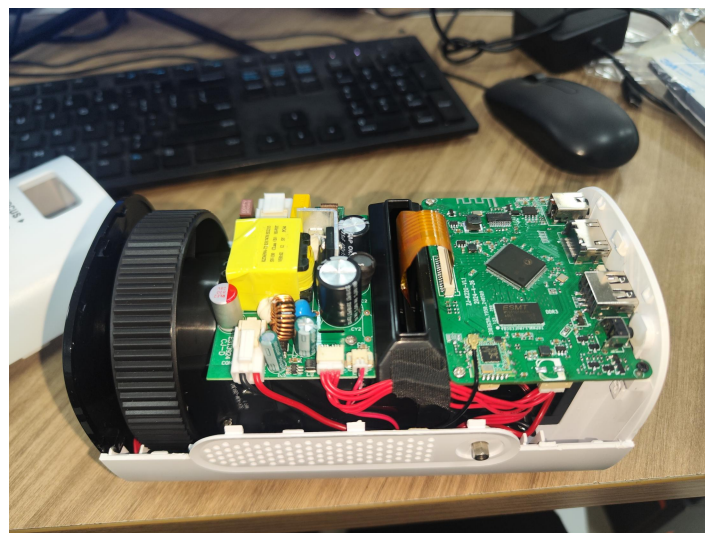
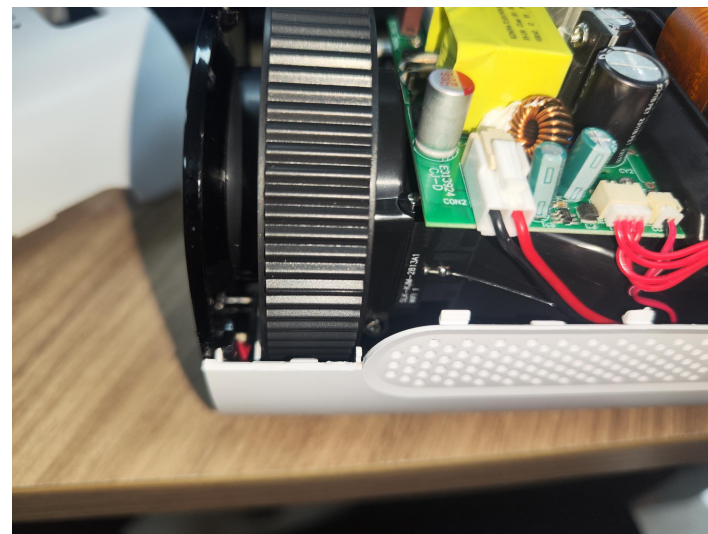
2.2 Antenna Parameters

2.3 WIFI Antenna TRP/TIS

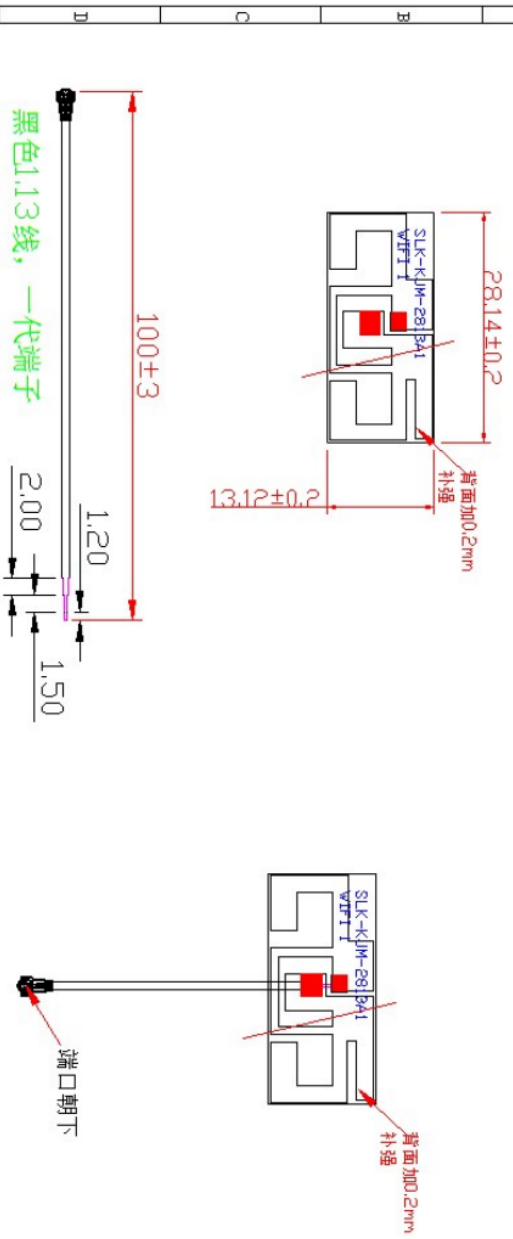
2.4 WIFI Antenna Gain/Efficiency/3D DATA

3. Conclusions

1. Product Overview

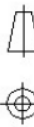


1	2	3	4	5	6	7	8		
文件编号		SLK-KJM-2813A1-M-100I-B		单位: mm		版次	标记	更改描述	日期
A1						A1		新增物料	24-5-23A



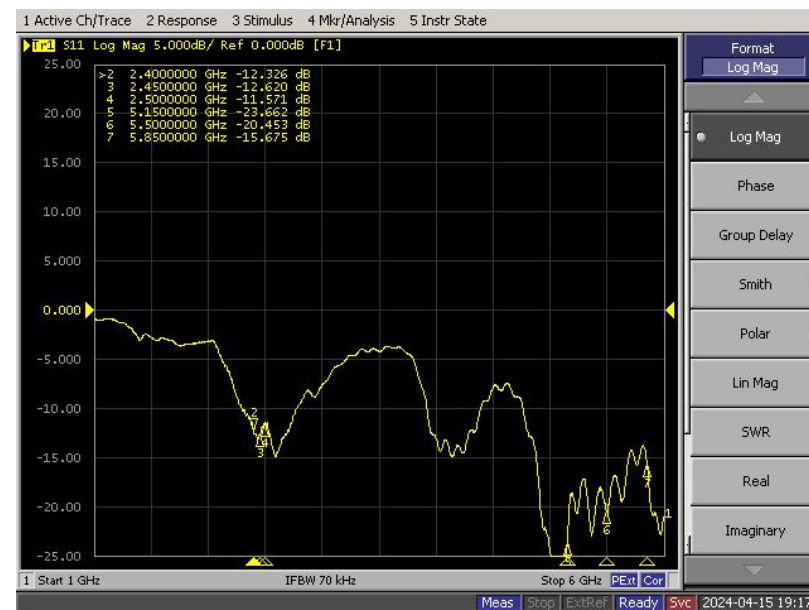
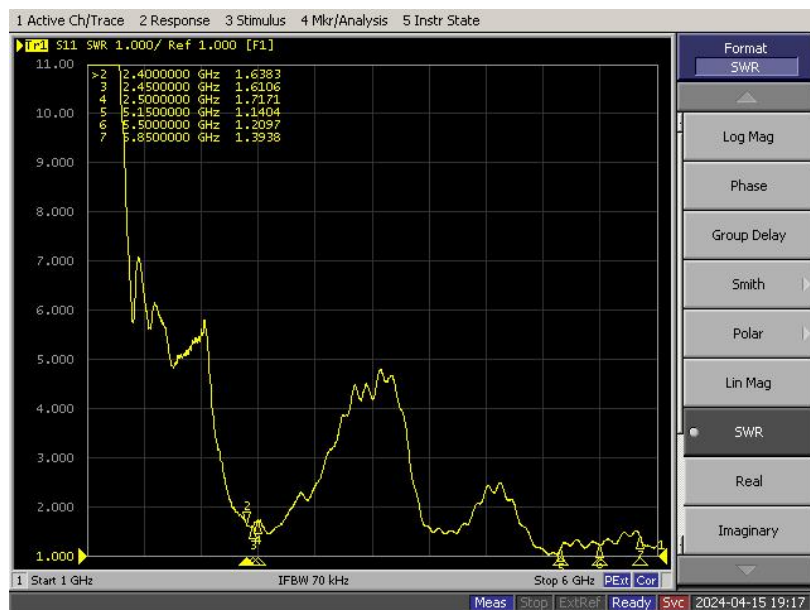
技术要求

- 1、FPC 基材: PI, 阴影部分为铜箔, 正表面上黑油。
- 2、背胶型号: 3M300。
- 3、红色部位铜外露, 表面无油污, 杂质, 毛刺等。
- 4、手撕位离型纸切断勿伤及线路。
- 5、重要尺寸用“*”标注 (制作模具要控制, 模具验收必测)
- 6、Cable 线为黑色 1.13 线, 线长 100MM 一代端子

设计	刘才亮		名称	
审核	范新竹		客户料号	
批准	黄震	重量	数量	比例
			1:1	
		第 1 张 共 1 张		
		图号		
深圳市亿圣邦科技有限公司				

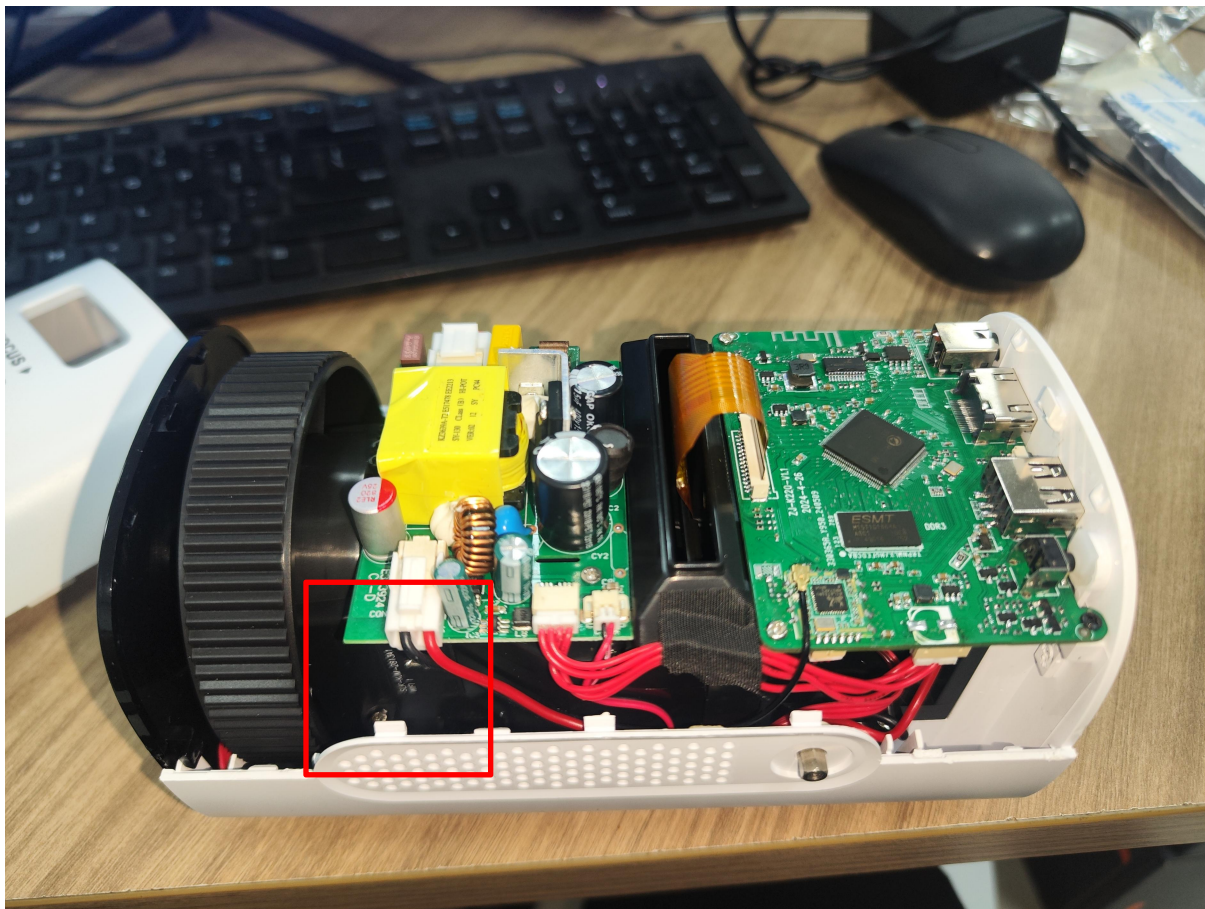
2. Test Result

2.1 VSWR/S11



2. Test Result

2.2 Antenna Parameters



2. Test Result

2.3 WIFI Antenna TRP/TIS

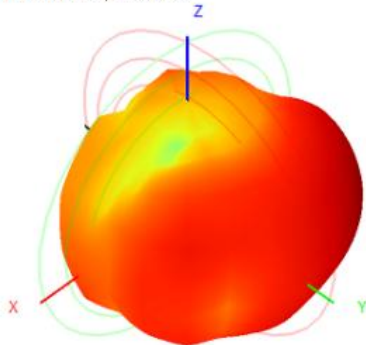
WIFI	CH	功率(54M)	灵敏度(54M)	WIFI	CH	功率(54M)	灵敏度(54M)
802.11a	36	10.89	-74.04	802.11g	1	15.24	-65.08
	149	14.09	-74.6		6	15.52	-64.21
	165	13.98	-74.26		11	15.48	-64.59
WIFI	CH	功率(11M)	灵敏度(11M)	WIFI	CH	功率(MCS7)	灵敏度(MCS7)
802.11b	1	16.26	-78.38	802.11n	1	15.05	-60.85
	6	16.95	-78.92		6	15.17	-60.09
	11	17.11	-78.12		11	15.46	-60.37

2. Test Result

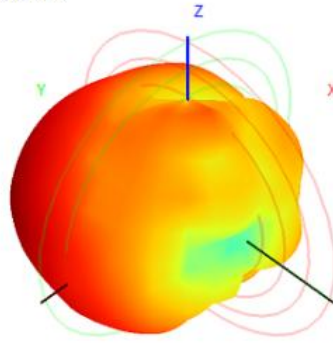
2.4 WIFI Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-3.03	-2.88	-2.55	-2.57	-2.68	-2.74	-2.56	-2.84	-2.75	-2.68	-2.84	-2.61	-2.52	-2.71	-2.62	-2.74
Gain (dBi)	1.91	1.99	2.21	2.19	1.96	1.87	2.22	2.13	2.33	2.63	2.66	2.49	2.44	2.16	2.27	2.95
Efficiency (%)	49.77	51.52	55.64	55.31	54.00	53.23	55.41	52.05	53.05	53.91	51.97	54.81	55.94	53.52	54.60	53.16

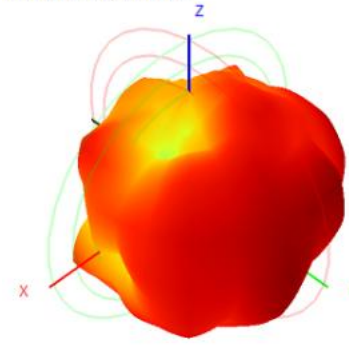
2450.0MHz H+V, Eff: 53.2%



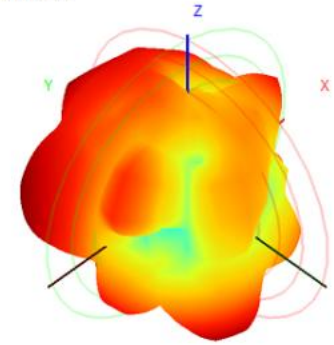
Back View



5850.0MHz H+V, Eff: 53.2%



Back View





3. Conclusions

Thank you