

SPECIFICATION

SHEET FOR APPROVAL

(Revision: V1)

CUSTOMER (客户名称)			
CS P/N(客户机种)	UL2501-02		
PART NAME (品名)	WIFI Antenna		
FREQUENCY (频率)	2400-2500 5150-5850MHz		
SUPPLIER PN. (供应商物料编号)	17C011A		
DATE (日期)	2026-1-20		
CUSTOMER SIGNED			
QA CHECKED	ME CHECKED	RFCHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章): _____

SHANGHAI DEEPFAST TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER



DEEP FAST

上海深迅通信技术有限公司

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Revised History

Date	Version	Revised history
2026.1.20	V1	

目录

SHEET FOR APPROVAL		
1	综述 Summarize	1
2	测试数据 Test Data	1~2
3	工程图 Engineering Drawing	3~4
4	样品检测报告 Sample Test Report	5
5	过程能力指数评估报告 Process Capability Index Assessment Report	6
6	盐雾可靠性试验报告 Salt spray reliability test report	7

1. 综述 Summarize

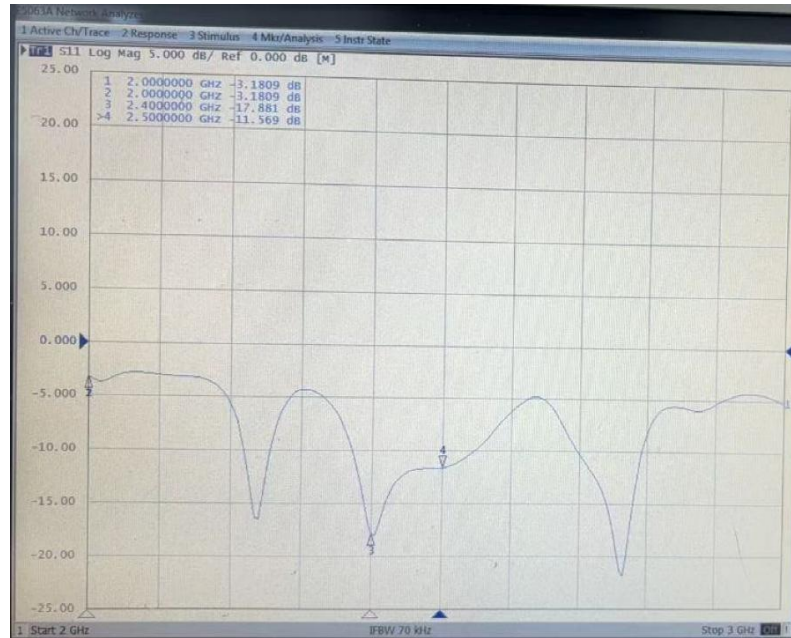
Model: WIFI Antenna

Material: FPC+cable。

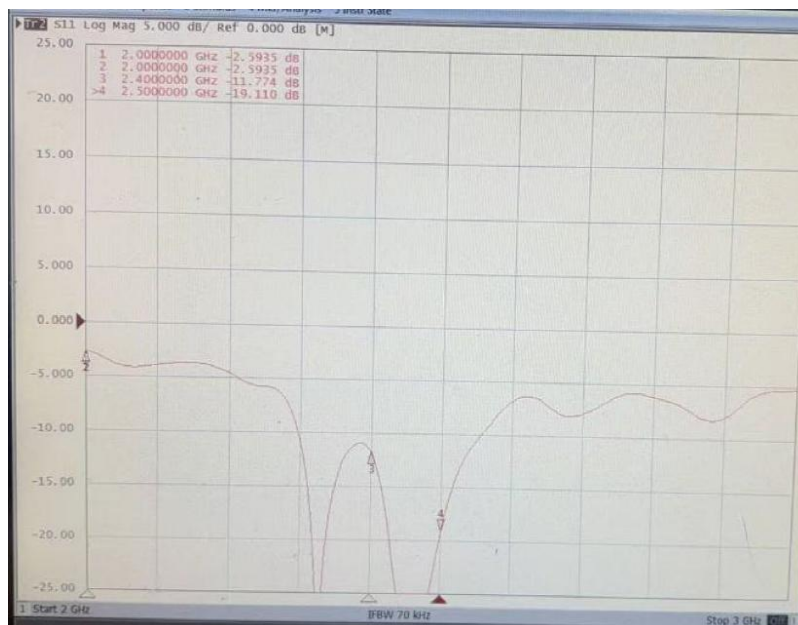
2. 测试数据 Test Data

Passive:

WIFI 2.4G

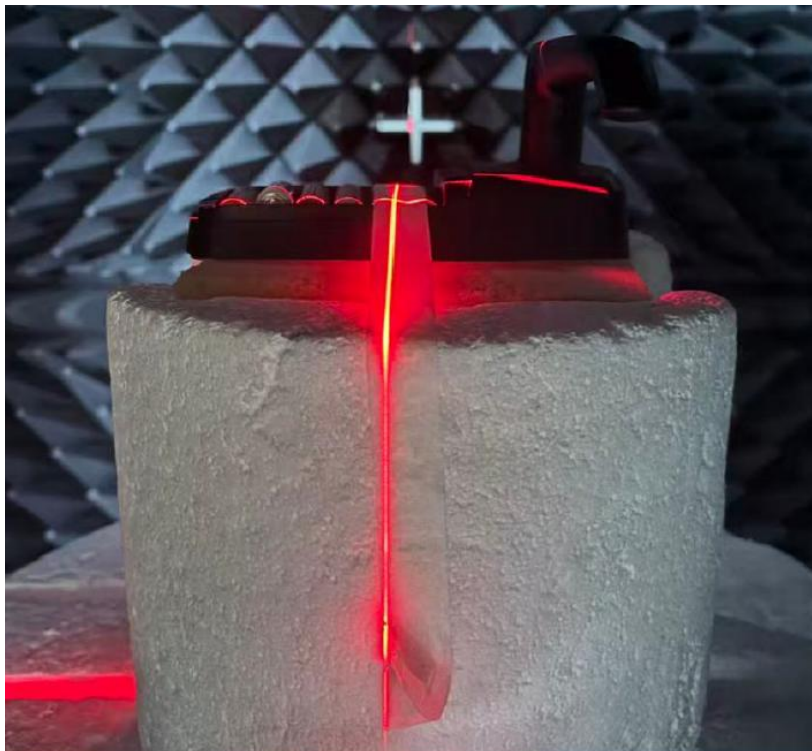


Frequency	Efficiency	Gain . dB
2402	34%	-0.39
2410	33%	-0.47
2420	32%	-0.37
2426	32%	-0.29
2430	31%	-0.34
2440	32%	-0.08
2450	32%	0.16
2450	32%	0.16
2460	33%	0.35
2470	34%	0.56
2480	32%	0.23
2490	32%	-0.01
2500	32%	-0.38



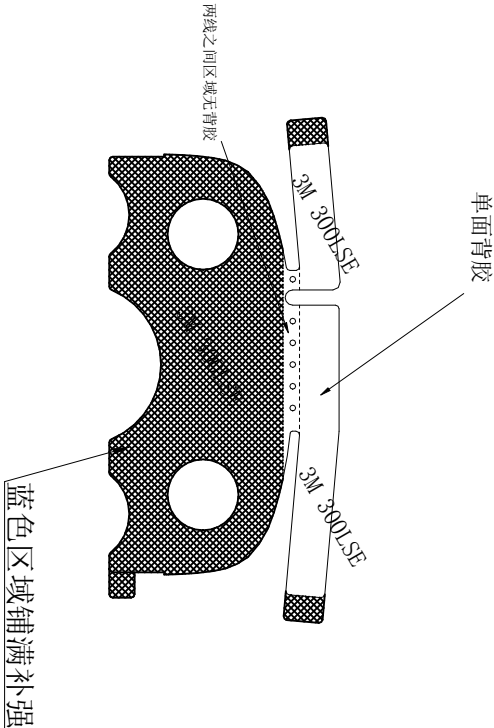
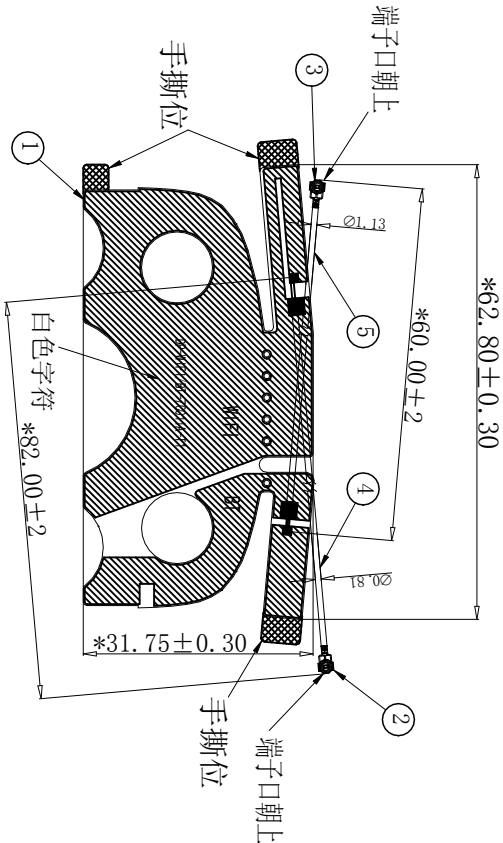
Frequency	Efficiency	Gain . dB
2402	26%	-3.41
2410	26%	-2.55
2420	27%	-1.96
2426	27%	-1.52
2430	27%	-1.36
2440	27%	-0.81
2450	27%	-0.75
2450	28%	-0.75
2460	30%	-0.41
2470	31%	-0.14
2480	31%	-0.26
2490	34%	0.01
2500	36%	0.29

3. 工程图 Engineering Drawing



注：装配图需包含测试样板、天线安装位置以及测试时的供电方式
测试图清晰体现测试样机在暗室里的测试状态

版本	说明	审核	日期	批准	日期
T1	新板制作		2026.01.08		



- 0SP 工艺
- 铜箔线路
- 产品外形

序号	物料名称	规格型号	工艺说明
①	FPC天线 (有补强板)	单面板 电解铜 3M 9471双面胶	哑光黑油
②	端子三代 料号：958-C308-W-W-BL-A0	磷青铜(镀金)	
③	TPCX端子1代 料号：0M-958-CL13-Y-B-BU-A0	磷青铜(镀金)	
④	同轴线 料号：SY081/50-003	银锡/PP/黑色 L=82mm	(浸锡) 黑色
⑤	同轴线 料号：SY13/50-055	双锡/PP/黑色 L=60mm	(浸锡) 黑色

环保要求:	
MATTER	RoHs (PPM)
Cd	≤100
Pb	≤1000
Hg	≤1000
Cr6+	≤1000
PBB	≤1000
PBDE	≤1000

上海 深迅 通 信 技 术 有 限 公 司						
量产线路公差		制图	日期:	单位	版本	比例
5 UND	±0.05	JASON	2026.01.08	mm	T1	1:1
5-10	±0.06	李进柱	日期:	材料	PPC	页码 1/1
10-35	±0.07		日期:			
35-50	±0.08		日期:			
50-100	±0.09	/	/	工艺	产品名称	深迅物料编号 17C011A
100 ONE	±0.10					
批准		日期:		纸张 A4	图纸编号 WiFi/ BT FPC 天线	

- 备注:
- 1:打*尺寸为C P K管控尺寸, 其余为I Q C重点检测尺寸.
 - 2:外形需冲切光滑平顺、且不能冲切到内部线路.
 - 3: 包装方式: 散装出货
 - 3:FPC表面不能有污点、起皱、露铜等不良问题.
 - 4:镀层区域要求过盐雾测试48小时不能出现氧化现象.
 - 5:油墨面需通过百格测试要求.
 - 6:产品需定数按要求包装好, 运输过程中不能有明显挤压变形等现象.
 - 7:FPC天线成品未经过ZTX公司确认, 材质及工艺要求等不能随意更改.

深迅项目名称:	深迅物料编号
U12501-02	17C011A

JEEP FAST
上海深迅通信技术有限公司

5

5. 过程能力指数评估报告 Process Capability Index Assessment Report



Product Model:UL2501-02								Approval		Review		lister	
Product Type:WIFI Antenna (17C011A) Date:2026.1.20								胡春梅		易爱玲		韦金苏	
No.	62. 80		60. 00		82. 00								Remark
	0. 30	0. 30	2. 00	2. 00	2. 00	2. 00							
1	62. 76		59. 43		81. 76								
2	62. 77		60. 57		81. 85								
3	62. 72		60. 18		81. 53								
4	62. 73		59. 58		82. 28								
5	62. 78		59. 92		82. 45								
6	62. 82		59. 88		82. 54								
7	62. 81		60. 42		81. 94								
8	62. 88		60. 09		82. 06								
9	62. 84		59. 70		82. 50								
10	62. 86		60. 04		81. 46								
11	62. 79		59. 74		81. 56								
12	62. 83		60. 30		81. 43								
13	62. 77		60. 10		82. 57								
14	62. 82		60. 48		82. 18								
15	62. 89		59. 64		81. 58								
16	62. 75		60. 24		81. 92								
17	62. 74		60. 36		81. 88								
18	62. 87		60. 50		82. 42								
19	62. 80		60. 42		82. 09								
20	62. 88		60. 52		81. 70								
21	62. 78		60. 21		82. 04								
22	62. 82		59. 76		81. 74								
23	62. 73		59. 85		82. 30								
24	62. 84		59. 53		83. 10								
25	62. 72		60. 28		82. 48								
26	62. 89		60. 45		81. 64								
27	62. 74		60. 54		82. 24								
28	62. 87		59. 94		82. 36								
29	62. 72		60. 06		82. 50								
30	62. 80		60. 50		82. 42								
31	62. 73		59. 46		82. 52								
32	62. 83		58. 89		81. 21								
MAX	62. 89		60. 57		83. 10								
MIN	62. 72		58. 89		81. 21								
X	62. 80		60. 05		82. 07								
M	63. 10		62. 00		84. 00								
CP	1. 792		1. 630		1. 53								
SN-1	0. 056		0. 409		0. 43								
K	0. 0021		0. 0247		0. 04								
CPK/Verdict	1. 788	Very Satisfied	1. 589	Satisfied	1. 481	Satisfied							
Total Judgment	The CPK value is "very satisfying" for mass production.												

6. 盐雾可靠性试验报告 Salt spray reliability test report



Project Name	UL2501-02	Product Name	WIFI Antenna	Date	2026. 1. 20
Product Material	FPC+cable	Test time	48H	Quantity	3PCS
Time Period	Test Conditions	Test Criteria		Results	Remarks
0-6 hours	SALT SPRAY TESTING MACHINE: SALT LIQUID: NACL (ANHYDROUS); CONCENTRATION 5%±1%;p H VALUE: 6.5~7.2; LABORATORY TEMPERATURE: 32-38° C; COMPRESSED AIR PRESSURE: 1.0±0.01 (KG/M2) SPRAY VOLUME: 1.0~2.0ML/80CM 2/H. RELATIVE HUMIDITY: 85%±2%; Specimen placement angle: 30 degrees +/-10 degrees; Salt mist duration time: 48h,	The surface of the product is free of rust spots, oxidation, corrosion, plating (coating) layer falling off and other undesirable phenomena		ok	2026. 1. 17 15: 00 starting
6-12 hours		The surface of the product is free of rust spots, oxidation, corrosion, plating (coating) layer falling off and other undesirable phenomena		ok	
12-18 hours		The surface of the product is free of rust spots, oxidation, corrosion, plating (coating) layer falling off and other undesirable phenomena		ok	
18-24 hours		The surface of the product is free of rust spots, oxidation, corrosion, plating (coating) layer falling off and other undesirable phenomena		ok	
24-30 hours		The surface of the product is free of rust spots, oxidation, corrosion, plating (coating) layer falling off and other undesirable phenomena		ok	
30-36 hours		The surface of the product is free of rust spots, oxidation, corrosion, plating (coating) layer falling off and other undesirable phenomena		ok	
36-42 hours		The surface of the product is free of rust spots, oxidation, corrosion, plating (coating) layer falling off and other undesirable phenomena		ok	
42-48 hours		The surface of the product is free of rust spots, oxidation, corrosion, plating (coating) layer falling off and other undesirable phenomena		ok	2026. 1. 19 18:00 ending
More than 48 hours		The surface of the product is free of rust spots, oxidation, corrosion, and the plating (coating) layer falling off≤ 1% of the product area			
Conclusion	Salt spray OK				
Tester	韦金苏	Reviewed	易爱玲	Approval	胡春梅