

SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

ShenzhenStrongpowerCommunicationCo., Ltd.

SE08-WIFI Antenna FPC Parts

SPECIFICATION

Customer	Shenzhen Wisky Technology CO.,Ltd	Frequency Band	WIFI:2.G&5G
Model	SE08		
Serial No	RQ03B159812B-WIFI	Color	Natural colour
RF designer	Qi Yanlin	Structural engineer	Zhou Jun
Technical director	Fu Yicheng	Date	2025/9/26

Confirm by customer:

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Confidentiality requirements

Strongpower Communication Co., Ltd. has the information provided by proprietary technology, which shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Strongpower Communication Technology Co., Ltd.

This report mainly provides the test status of electrical and structural performance parameters of FPC parts for SE08

I WIFI FPC Parts

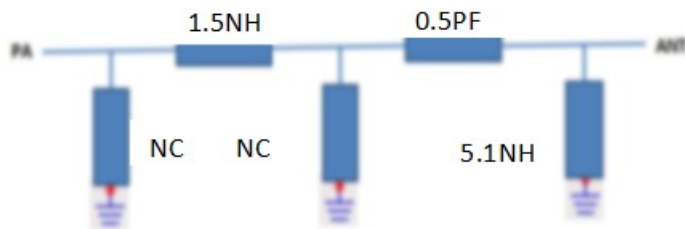
1. Electrical Parameters

1.1 Work Frequency Band

Frequency Band: 2400MHz~2480MHz;5150MHz~5850MHz 。

1.2 Matching Circuit

Main antenna matching



2. Composition of FPC Parts: FPC

3. The Equipment of Active&Passive Test

Satimo Chamber, Arilink Chamber, GTS Chamber, GuangPin Chamber,

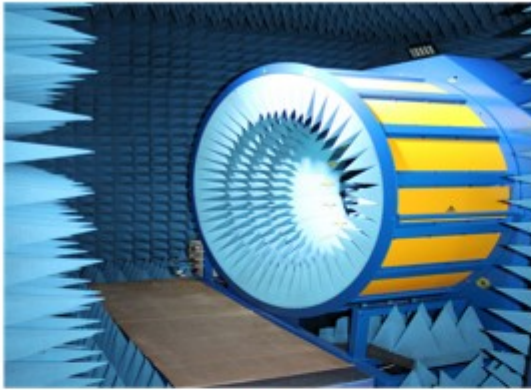
Agilent 8960, Anritsu MT8820C, R&S CMW500

Network analyzer Agilent E5071C

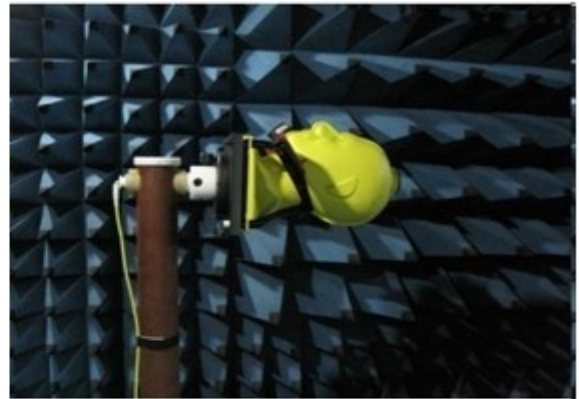
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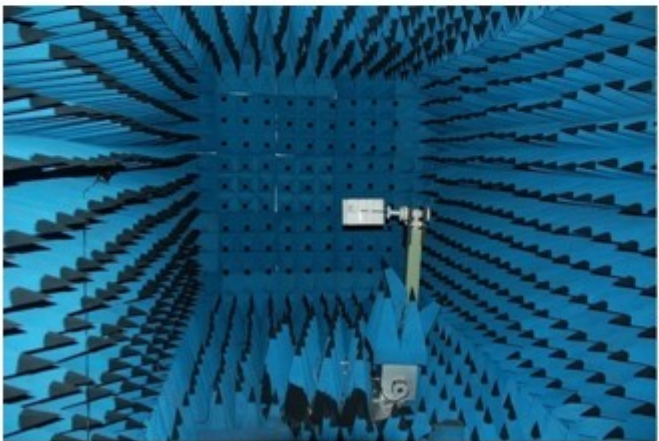
chamber



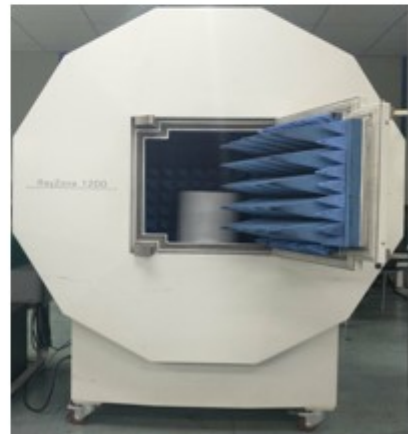
Satimo



Airlink



Guang Ping



GTS

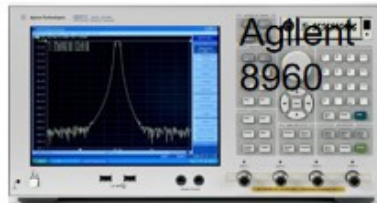
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equipment



R&S
CMW500



Agilent
8960



Anritsu
MT8820C



Agilent
N4010A



Agilent
E4438C
Signal
Generator

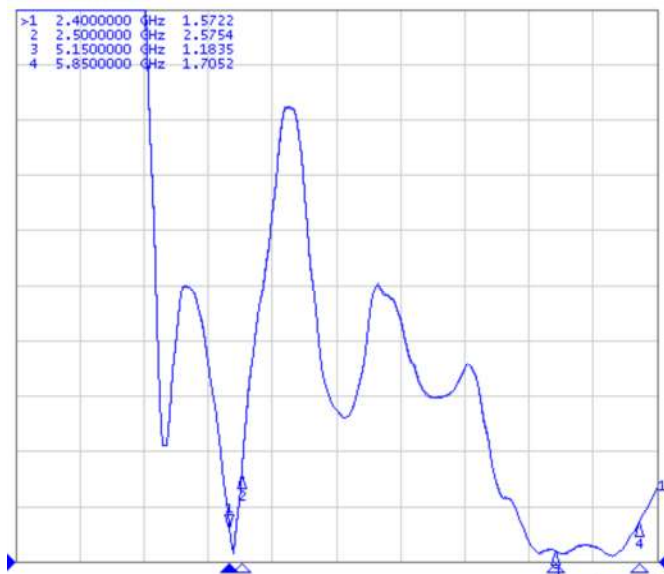


Agilent
E5071C



4. Passive Test

4.1 S Parameters, VSWR, Return loss, Smith Chart



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4. Passive Efficiency and Gain

Frequency/Mhz	Efficiency / dB	Efficiency / %	MaxGain/dBi
2400	-4.7	33.88	1.87
2410	-4.75	33.5	2.01
2420	-4.83	32.89	1.96
2430	-4.86	32.66	2.06
2440	-4.99	31.7	1.88
2450	-4.98	31.77	1.92
2460	-4.94	32.06	1.77
2470	-4.88	32.51	1.73
2480	-4.88	32.51	1.55
2490	-4.79	33.19	1.66
2500	-4.69	33.96	1.75
5150	-4.94	32.06	-0.24
5160	-4.73	33.65	-0.32
5170	-4.72	33.73	-0.71
5180	-4.70	33.88	-0.91
5190	-4.63	34.43	-0.66
5200	-4.32	36.98	-0.59
5210	-4.26	37.5	-0.49
5220	-4.10	38.9	-0.29
5230	-4.14	38.55	-0.31
5240	-3.99	39.9	0.09
5250	-4.00	39.81	0.16
5260	-3.89	40.83	0.29
5270	-3.83	41.4	0.53
5280	-3.79	41.78	0.61
5290	-3.96	40.18	0.65
5300	-3.91	40.64	0.72
5310	-3.80	41.69	0.25
5320	-3.78	41.88	0.13
5330	-3.88	40.93	0.16
5340	-3.88	40.93	0.15
5350	-3.82	41.5	0.54
5360	-3.82	41.5	0.32
5370	-3.90	40.74	0.3
5380	-3.88	40.93	0.58
5390	-4.00	39.81	0.41
5400	-4.00	39.81	0.41
5410	-4.03	39.54	0.38
5420	-3.93	40.46	0.68
5430	-3.94	40.36	0.69
5440	-3.88	40.93	0.86

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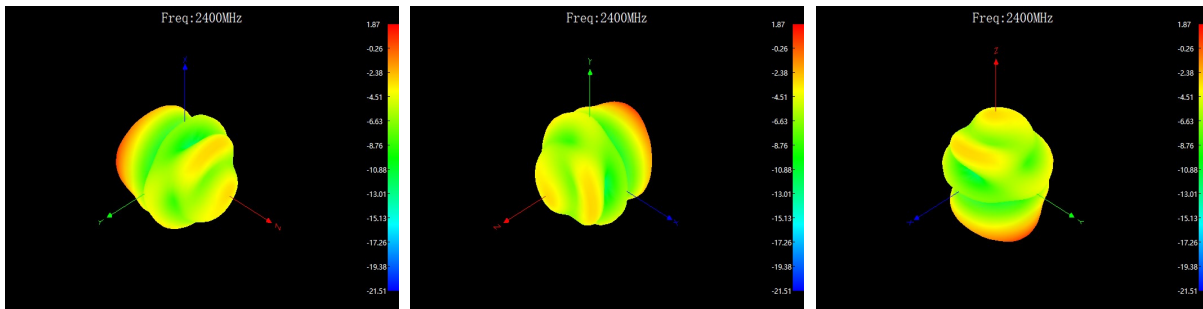
Confidential Information

5450	-3.95	40.27	0.93
5460	-3.97	40.09	0.89
5470	-3.93	40.46	1
5480	-3.94	40.36	1.37
5490	-4.14	38.55	1.08
5500	-4.21	37.93	1.07
5510	-4.26	37.5	1
5520	-4.11	38.82	1.34
5530	-4.09	38.99	1.2
5540	-4.07	39.17	1.21
5550	-4.06	39.26	1.31
5560	-4.09	38.99	1.09
5570	-4.13	38.64	0.91
5580	-4.23	37.76	0.67
5590	-4.24	37.67	0.59
5600	-4.20	38.02	0.68
5610	-4.29	37.24	0.81
5620	-4.35	36.73	0.53
5630	-4.24	37.67	0.76
5640	-4.16	38.37	0.76
5650	-4.32	36.98	0.94
5660	-4.49	35.56	0.57
5670	-4.42	36.14	0.64
5680	-4.32	36.98	0.39
5690	-4.36	36.64	0.11
5700	-4.43	36.06	0.07
5710	-4.36	36.64	0.14
5720	-4.48	35.65	0.1
5730	-4.70	33.88	-0.21
5740	-4.65	34.28	0.11
5750	-4.56	34.99	0.11
5760	-4.77	33.34	-0.07
5770	-4.97	31.84	-0.32
5780	-4.91	32.28	-0.08
5790	-4.88	32.51	0.07
5800	-5.11	30.83	-0.39
5810	-5.28	29.65	-0.75
5820	-5.19	30.27	-0.93
5830	-5.29	29.58	-1.21
5840	-5.55	27.86	-1.36
5850	-5.65	27.23	-1.32

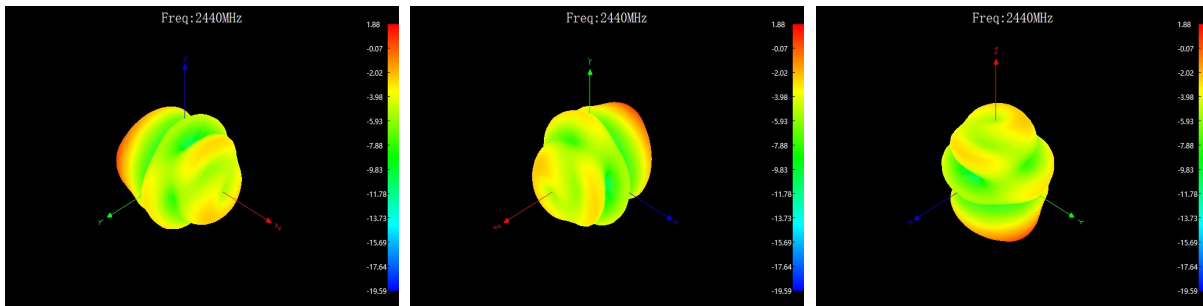
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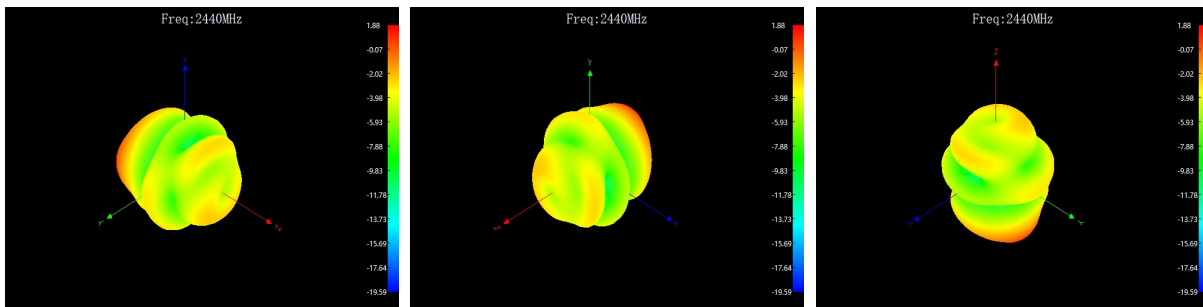
2400M



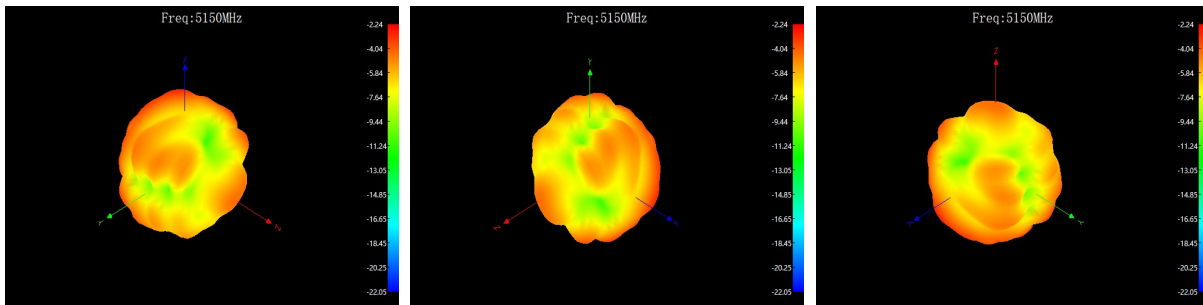
2440M



2480M



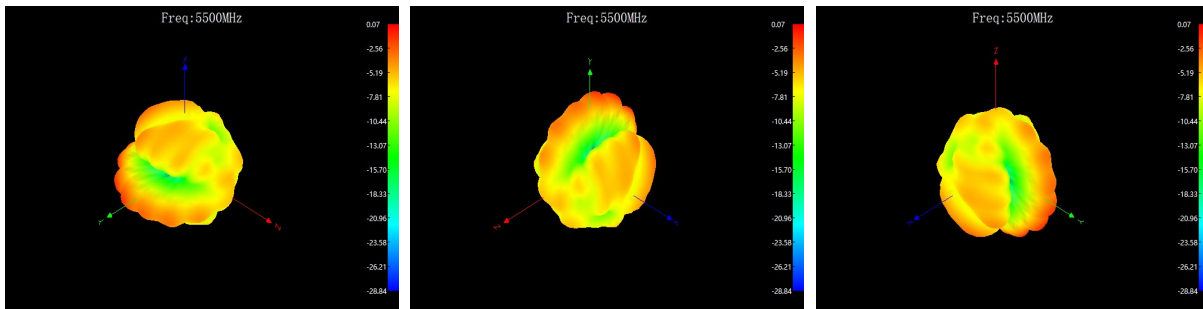
5150



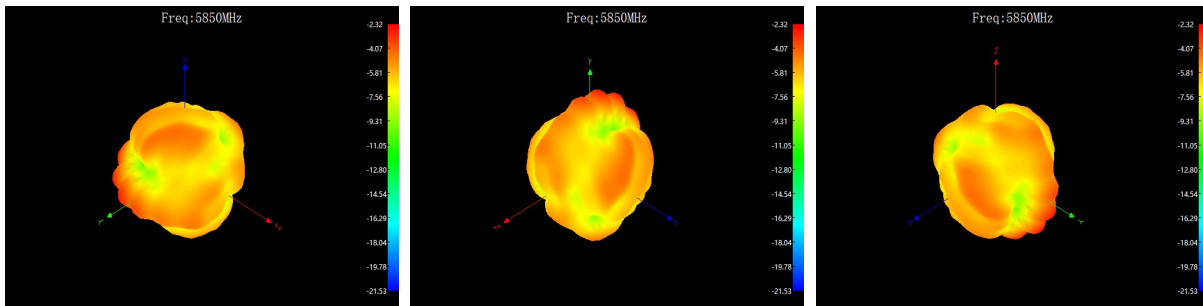
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5500



5850M



5. Active Test

5.1 Main

Band	Channel	Total	
WIFI_AC (78M)	36	8.74	-68.93
	64	9.08	-69.8
	149	11.2	-70.48
	165	10.5	-68.91
WIFI_B (11M)	1	14.38	-86.99
	7	14.83	-87.54
	13	13.72	-87.2

6. Conclusion

This FPC part is designed on the basis of the sample provided by the customer. The electrical parameters and structural performance have reached the technical requirements, please confirm!

II: Project Drawing

(See Next Page)

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1		2		3		4		5		6		7		8	
黑色哑光油墨印刷白色亮光字体 微贴膜出货															
NOTES: 1. 红色为铜材质部分； 空白为基材； 黄色部分为镀金区； 蓝色为背胶区域； 2. 刀模不可伤到线路，镀金区要与线路导通； 3. 表面不可以有污物、擦伤、黑点、镀金后断裂及脱落等不良现象； 4. 材料：FPC单面板 [PI (ED) 半对半基材+胶 (3M 9471 0.05mm)+表面 黑油墨 (凯耀) (>0.01mm)]； 5. 反面背胶为 3M 9471； 6. 金手指表面镀金(厚度：0.5μ"-1.5μ")，不可有氧化现象(需过盐雾实验)； 盐雾实验48±1小时后表面无腐蚀点和镀层脱落； 7. 标*为重点尺寸，未标注公差请按B级公差检验。															
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日期		修 改 内 容				版 本		修 订							
1		2				3		4							

专业制造方案解决机构 RF PA 0°~10 ±0.10 ○ 0.02 10°~20 ±0.12 ◎ Ø0.03 20°~40 ±0.15 ⊥ 0.02 40°~50 ±0.20 ∇ 0.04 B ∇ 0.02 机种 SE08 品名 WIFI-FPC 料号 RQ03B159812B-WIFI 材质 PI 模面处理 外观处理 日期 2025.09.22 设计 审核 结构 射频 单位 mm 比例 FIT 版本 V3									
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