



SHUN DA CHENG TECHNOLOGY CO., LTD

顺达成科技

Antenna Test Report



客户名称：大晶

项目名称：9寸中科主板

频段：WiFi（2.4/5.8）

版本：A

制作日期：2026-5-9



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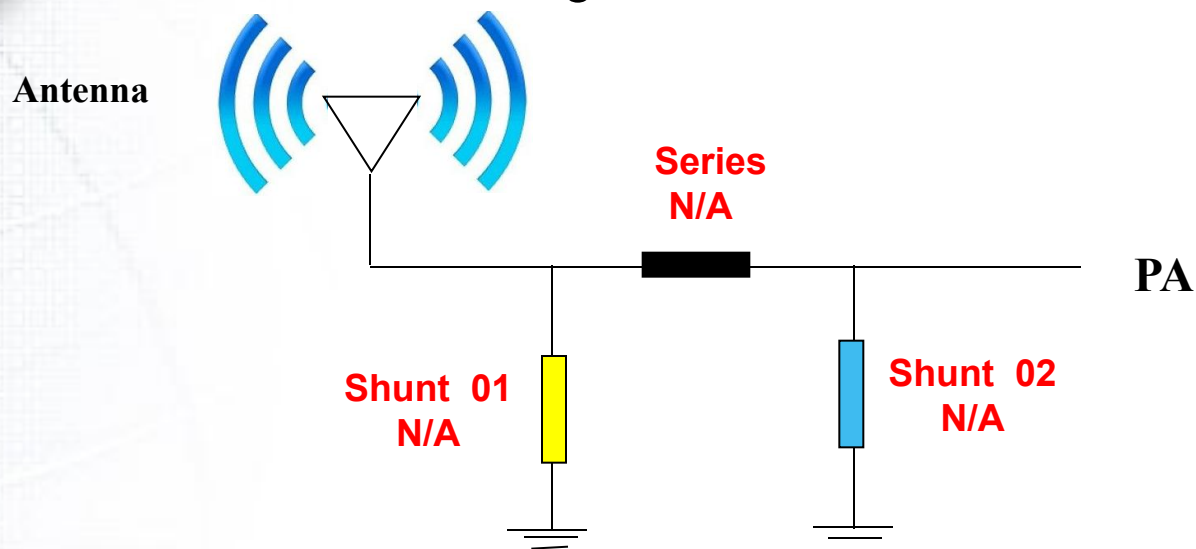
1. Test system

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW2 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C





2. Antenna Matching Network



Location	Description	Vendor
Shunt 01	N/A	N/A
Series	N/A	N/A
Shunt 02	N/A	N/A

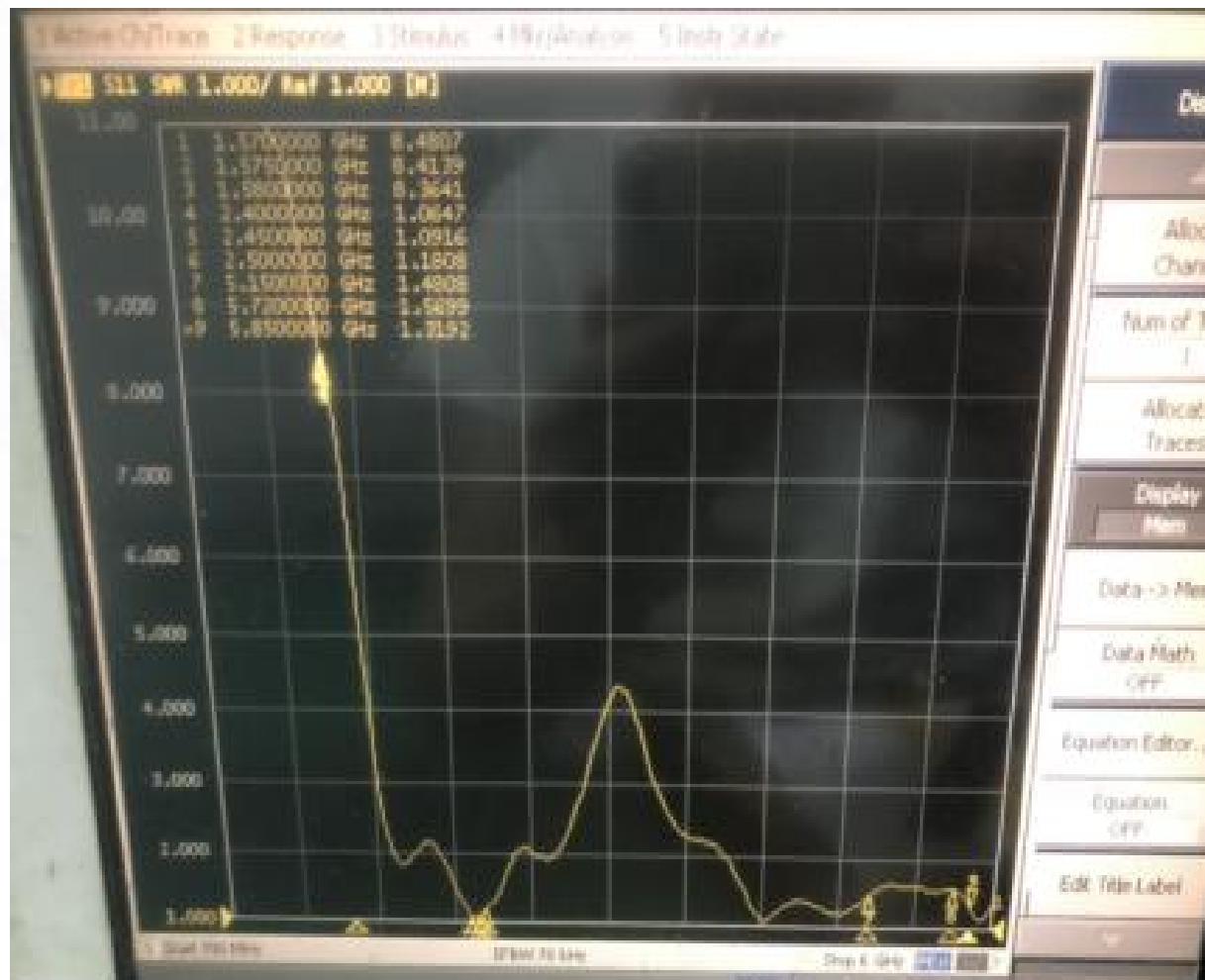
未改动主板
匹配电路

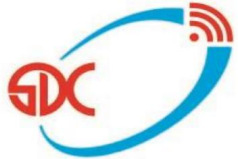


S11 Parameter-VSWR

WiFi

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S11 Parameter-VSWR

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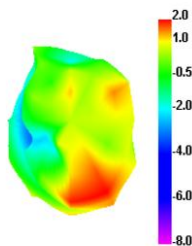
Gain and efficiency

WiFi

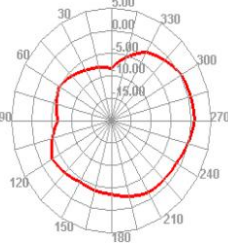
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Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	44.27	-2.65	2.04	-0.11	30.866	34.097	2.04	-14.26	2.65	75	48.23	48.39
2425	41.94	-2.84	1.52	-0.63	28.92	28.44	1.52	-13.99	2.84	60	48.32	48.45
2450	39.37	-3.07	1.14	-1.01	28.246	23.251	1.14	-15.12	3.07	45	48.74	48.76
2475	40.58	-2.96	1.97	-0.18	28.116	22.747	1.97	-16.31	2.96	15	49.07	49
2500	41.38	-2.12	2.32	0.17	27.373	20.53	2.32	-17.49	2.12	15	49.2	49.11

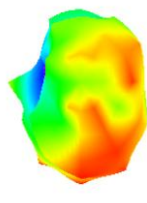
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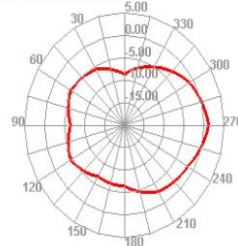
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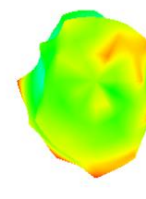
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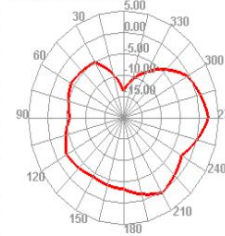
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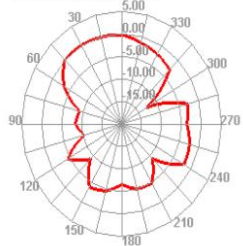
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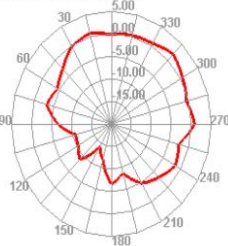
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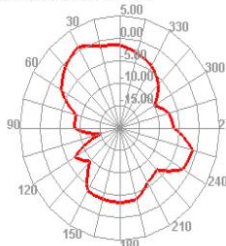
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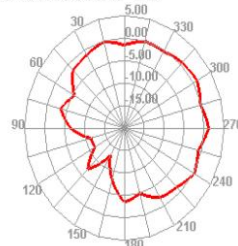
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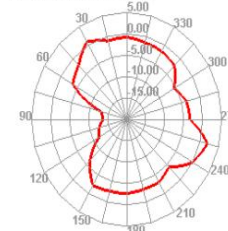
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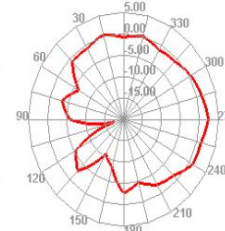
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2500.000MHz E1



2500.000MHz E2



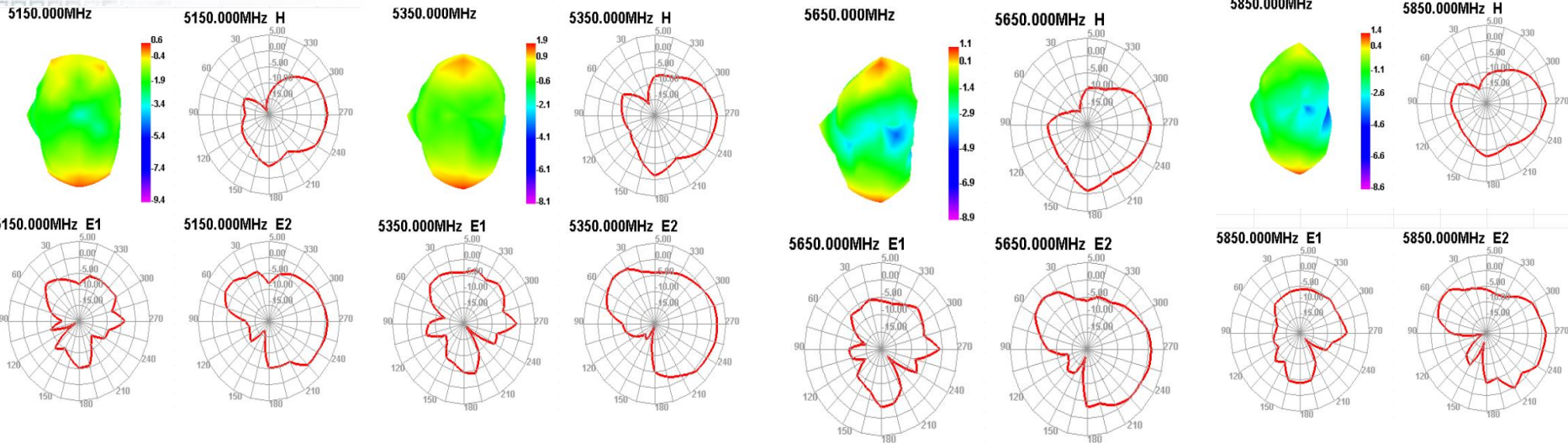


Gain and efficiency

WiFi

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Passive Test For 5.8G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	35.23	-4.92	0.64	-1.51	18.002	14.834	0.64	-23.37	4.92	15	58.24	57.86
5250	36.06	-4.43	1.44	-0.71	21.77	18.345	1.44	-20.04	4.43	0	58.55	58.24
5350	42.25	-3.74	1.92	-0.23	24.024	20.11	1.92	-24.52	3.74	0	58.32	57.64
5450	40.16	-3.96	1.67	-0.48	26.322	21.424	1.67	-24.57	3.96	0	59.47	58.22
5550	39.39	-4.05	1.75	-0.4	28.602	24.321	1.75	-28.84	4.05	0	59.98	58.53
5650	36.56	-4.37	1.1	-1.05	28.672	24.791	1.1	-17.66	4.37	0	60.3	59.1
5750	37.33	-4.28	1.28	-0.87	25.919	22.932	1.28	-18.24	4.28	45	60.64	59.72
5850	39.93	-4.69	1.39	-0.76	23.626	21.146	1.39	-19.82	4.69	75	61.06	60.22





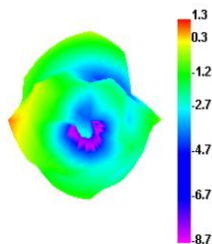
Gain and efficiency

BT

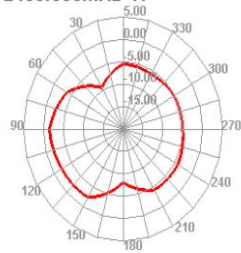
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Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	39.32	-4.28	1.29	-0.86	25.174	28.435	1.29	-19.52	4.28	15	48.23	48.39
2425	44.49	-3.52	1.96	-0.19	21.847	24.624	1.96	-19.01	3.52	15	48.32	48.45
2450	43.36	-3.63	1.8	-0.35	18.884	21.511	1.8	-17.47	3.63	15	48.74	48.76
2475	43.96	-3.57	1.65	-0.5	15.402	18.522	1.65	-18.06	3.57	30	49.07	49
2500	41.44	-2.89	2.24	0.09	15.18	19.444	2.24	-16.81	2.89	30	49.2	49.11

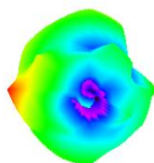
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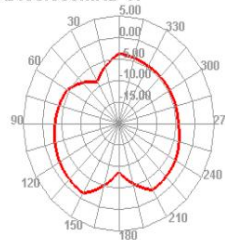
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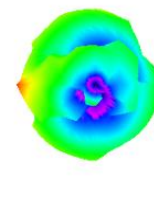
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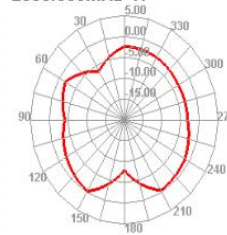
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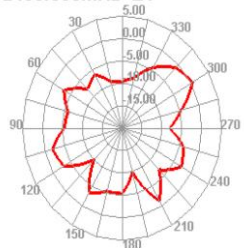
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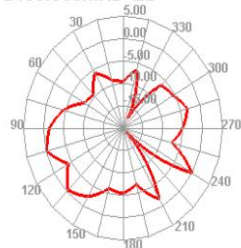
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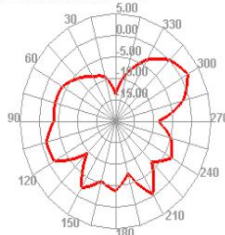
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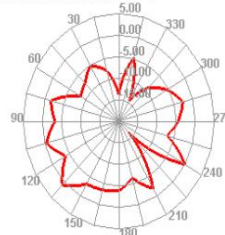
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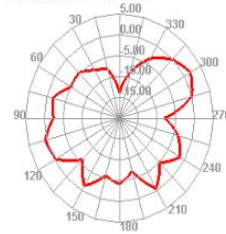
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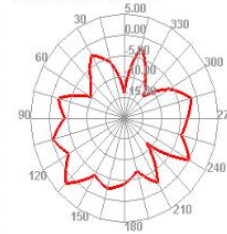
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2500.000MHz E1



2500.000MHz E2



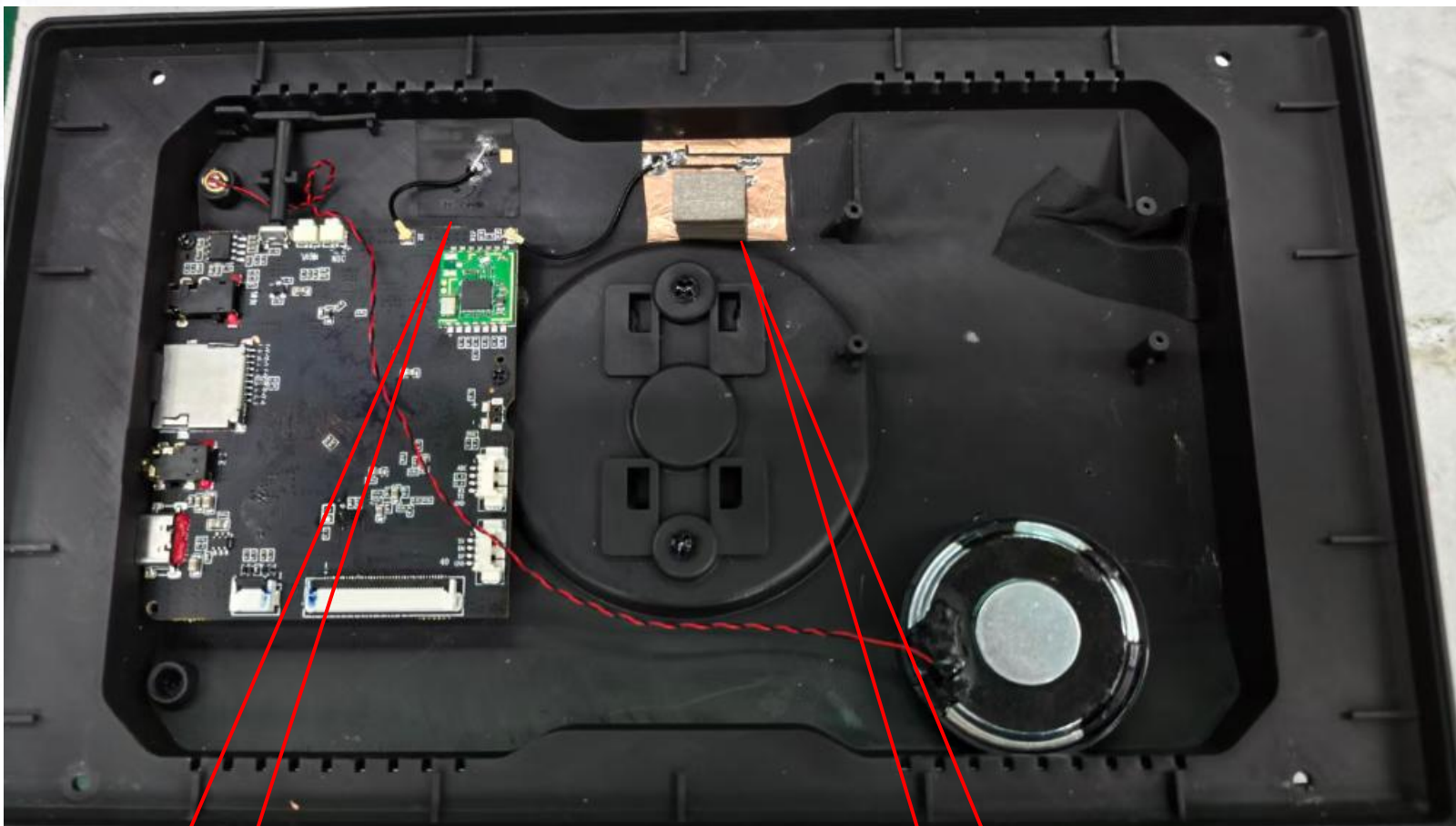


WIFI OTA Data

2.4G	802.11b, (2.4G) 11M		
Channel	CH1	CH6	CH11
TRP	17.12	17.73	17.43
TIS	-80.43	-80.25	-80.22
5.8G	802.11a, (5.8G) 54M		
Channel	CH36	CH60	CH161
TRP	15.20	15.81	14.69
TIS	-72.56	-72.31	-70.45



Antenna Installation Location



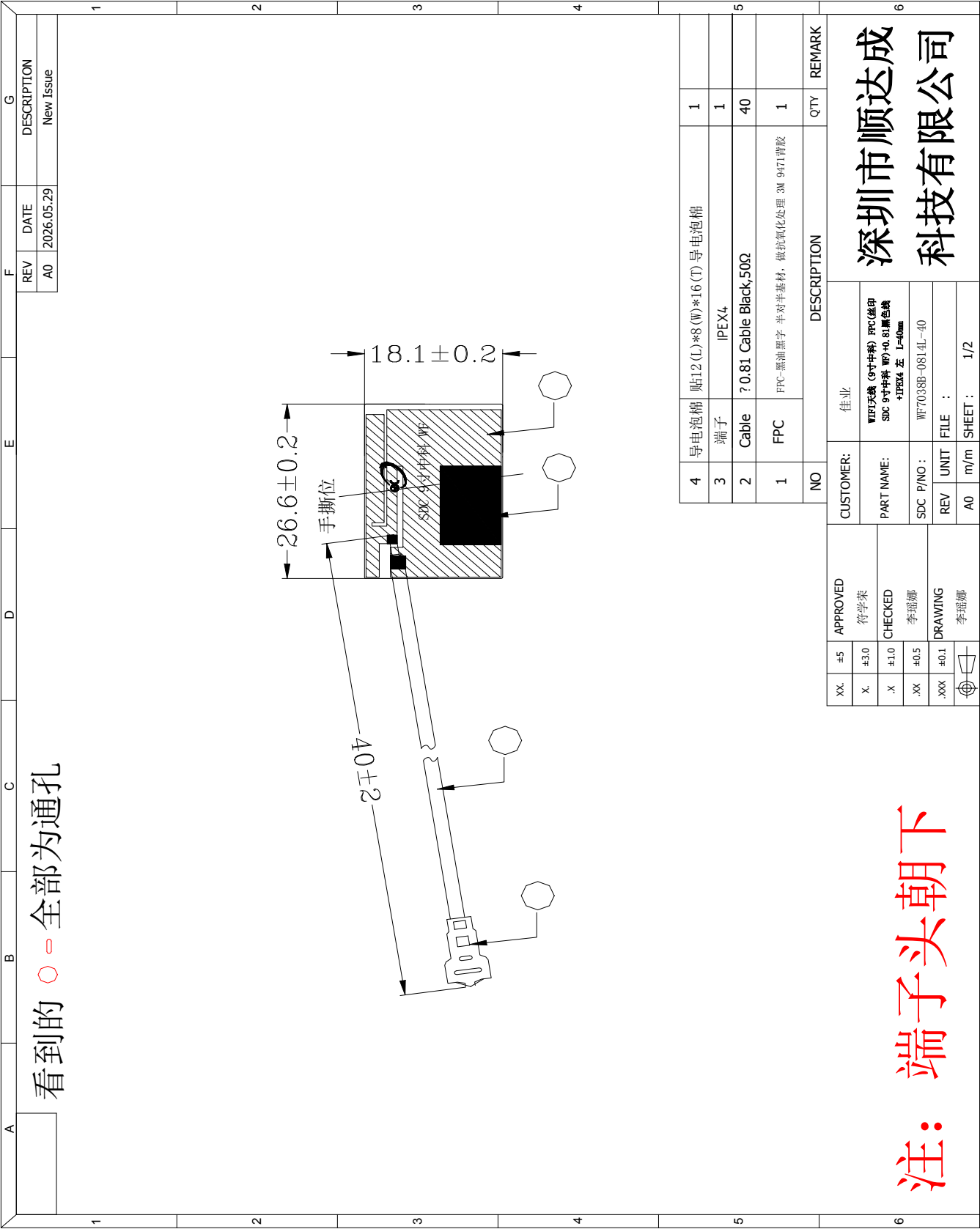
BT天线

WiFi天线



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Drawing or Product Image -WIFI

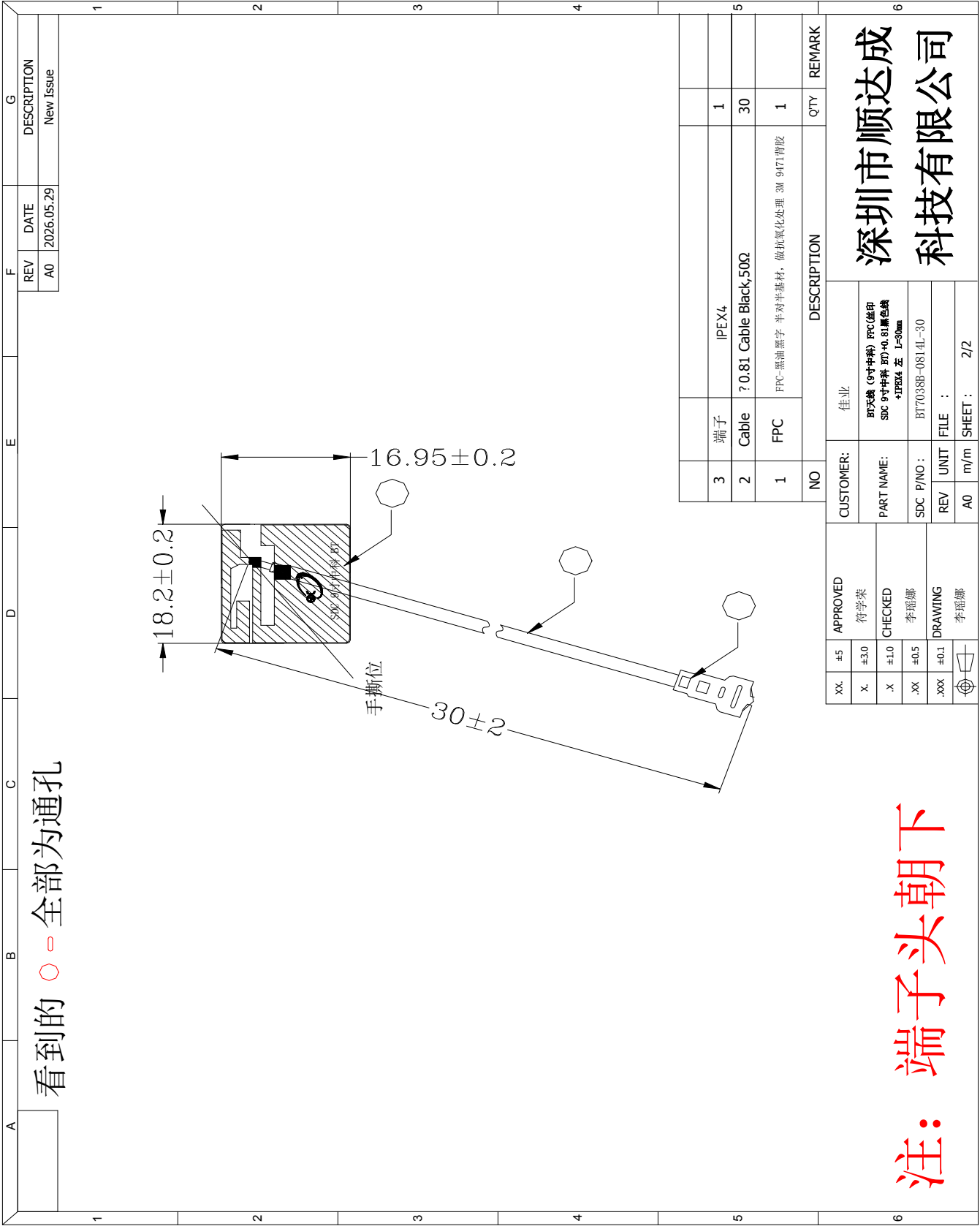


注: 端子头朝下



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Drawing or Product Image -BT



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顺达成感谢您的支持

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