



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

规格承认书 Approval Sheet

客户名称 Customer	TOPDON	日期 Data	2025/05/30
产品名称 Product	WIFI/BT	客户机型 Models	ArtiDiag900 Lite
料号 P/N	F377-13LB-090	客户料号 Customer P/N	827-1000-00022
规格描述 Specifications	Black FPC; RF0.81 third-generation terminal black coaxial line; L=90 millimeters		

供应商承认签印 Vender Approved By	客户承认签印 Customer Approved By
Checked By:	Checked By:
Approval By:	Approval By:

版本 Version	修订内容 Revise The Content	修订人 Revused	核准 Approval	修订日期 Date	备注 Note

地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address:1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



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Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4G WIFI/BT 5G WIFI
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	54.47%@2.4G; 58.44%@5G
Peak Gain	4.78dBi@2.4G ; 3.85dBi@5G

1.2 Physical Properties

Characteristics	Specifications
Operating Temp	-10°C~+60°C
Storage Temp	-10°C~+70°C
Humidity	10~95%RH

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Antenna Placement



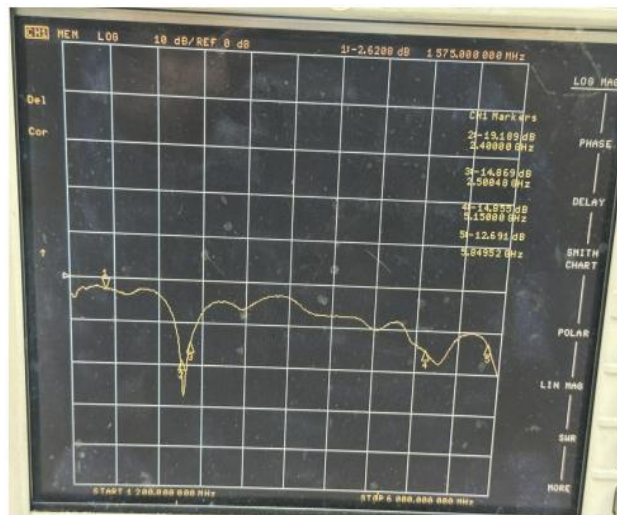
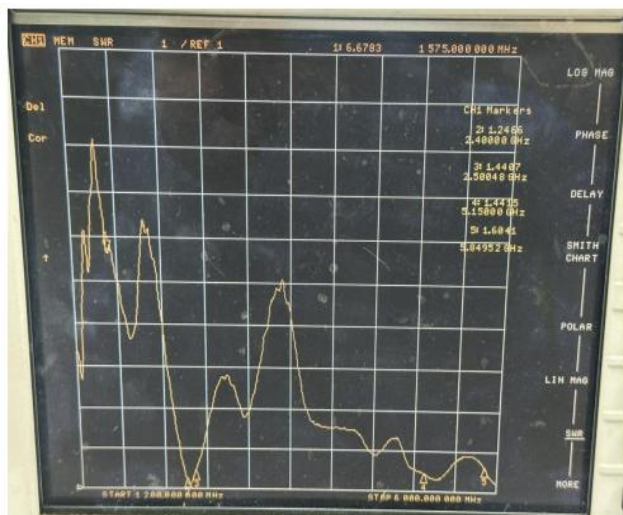
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Test Data

S11 Parameter-VSWR(WIFI)



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.24	1.44	1.44	1.6
Return Loss (DB)	-19.18	-14.86	-14.85	-12.69

WiFi Active Test Data

	Frequency	TRP		TIS	
802.11b	2412	CH1 11Mbps	15.27	CH1 11Mbps	-81.12
	2437	CH6 11Mbps	15.86	CH6 11Mbps	-81.93
	2467	CH11 11Mbps	15.27	CH11 11Mbps	-81.37
802.11a		TRP		TIS	
	5180	CH36 6Mbps	14.99	CH36 54Mbps	-71.68
	5300	CH60 6Mbps	14.96	CH60 54Mbps	-71.7
	5805	CH161 6Mbps	14.36	CH161 54Mbps	-70.96

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Efficiency Table

Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	42.76	-3.69	2.49	0.34	21.855	20.908	2.49	-14.02
2410	42.2	-3.75	2.94	0.79	20.796	21.408	2.94	-13.1
2420	46.17	-3.36	3.72	1.57	21.915	24.258	3.72	-13.73
2430	44.76	-3.49	3.6	1.45	20.947	23.81	3.6	-15.19
2440	44.71	-3.5	3.71	1.56	20.557	24.154	3.71	-14.66
2450	47.48	-3.24	3.98	1.83	21.72	25.756	3.98	-14.5
2460	51.92	-2.85	4.32	2.17	23.55	28.366	4.32	-13.36
2470	49.97	-3.01	4.24	2.09	22.395	27.574	4.24	-13.23
2480	50.63	-2.96	4.35	2.2	22.379	28.255	4.35	-12.95
2490	53.63	-2.71	4.72	2.57	23.105	30.528	4.72	-13.71
2500	54.47	-2.64	4.78	2.63	22.945	31.529	4.78	-14.79
Passive Test For WIFI5G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
5150	32.62	-4.87	1.28	-0.87	19.585	13.03	1.28	-15.22
5170	33.13	-4.8	1.33	-0.82	19.975	13.155	1.33	-15.27
5190	34.13	-4.67	1.58	-0.57	20.763	13.364	1.58	-14.52
5210	37.77	-4.23	2.11	-0.04	23.038	14.732	2.11	-13.28
5230	33.65	-4.73	1.32	-0.83	20.414	13.24	1.32	-13.27
5250	43.75	-3.59	2.08	-0.07	26.359	17.389	2.08	-12.97
5270	38.66	-4.13	1.16	-0.99	23.094	15.564	1.16	-14.65
5290	48.22	-3.17	2.18	0.03	28.488	19.73	2.18	-13.66
5310	39.23	-4.06	1.31	-0.84	22.997	16.235	1.31	-15.54
5330	42.13	-3.75	1.48	-0.67	24.685	17.45	1.48	-17.49
5350	42.99	-3.67	1.06	-1.09	25.046	17.946	1.06	-16.95
5370	42.72	-3.69	0.86	-1.29	24.9	17.822	0.86	-15.79
5390	41.52	-3.82	0.87	-1.28	24.235	17.282	0.87	-16.71
5410	49.69	-3.04	1.74	-0.41	29.214	20.475	1.74	-15.13
5430	49.09	-3.09	1.64	-0.51	28.928	20.163	1.64	-14.26
5450	51.23	-2.9	1.96	-0.19	30.289	20.94	1.96	-13.35
5470	49.65	-3.04	1.82	-0.33	29.833	19.815	1.82	-15.28
5490	47.06	-3.27	1.63	-0.52	28.632	18.426	1.63	-15.89
5510	52.17	-2.83	2.44	0.29	31.912	20.255	2.44	-13.81
5530	51	-2.92	2.79	0.64	31.301	19.702	2.79	-13.37
5550	58.44	-2.33	3.82	1.67	36.138	22.301	3.82	-13
5570	53.98	-2.68	3.6	1.45	33.583	20.402	3.6	-14.24
5590	56.74	-2.46	3.85	1.7	35.248	21.496	3.85	-17.05
5610	53.82	-2.69	3.63	1.48	33.174	20.644	3.63	-18.33
5630	53.03	-2.76	3.81	1.66	32.77	20.255	3.81	-19.77
5650	53.52	-2.72	3.69	1.54	33.214	20.301	3.69	-17.82
5670	56.27	-2.5	3.5	1.35	34.535	21.735	3.5	-16.25
5690	51.18	-2.91	2.66	0.51	30.791	20.393	2.66	-16.33
5710	54.01	-2.67	2.92	0.77	32.432	21.582	2.92	-16.7
5730	53.6	-2.71	2.82	0.67	32.462	21.142	2.82	-17.07
5750	49.93	-3.02	2.54	0.39	30.109	19.822	2.54	-15.14
5770	52.39	-2.81	2.91	0.76	31.076	21.318	2.91	-13.9
5790	47.91	-3.2	2.54	0.39	28.368	19.545	2.54	-13.15
5810	49.45	-3.06	2.54	0.39	29.53	19.925	2.54	-12.15
5830	50.7	-2.95	2.65	0.5	30.21	20.492	2.65	-11.13
5850	52.61	-2.79	2.61	0.46	30.595	22.011	2.61	-12.22

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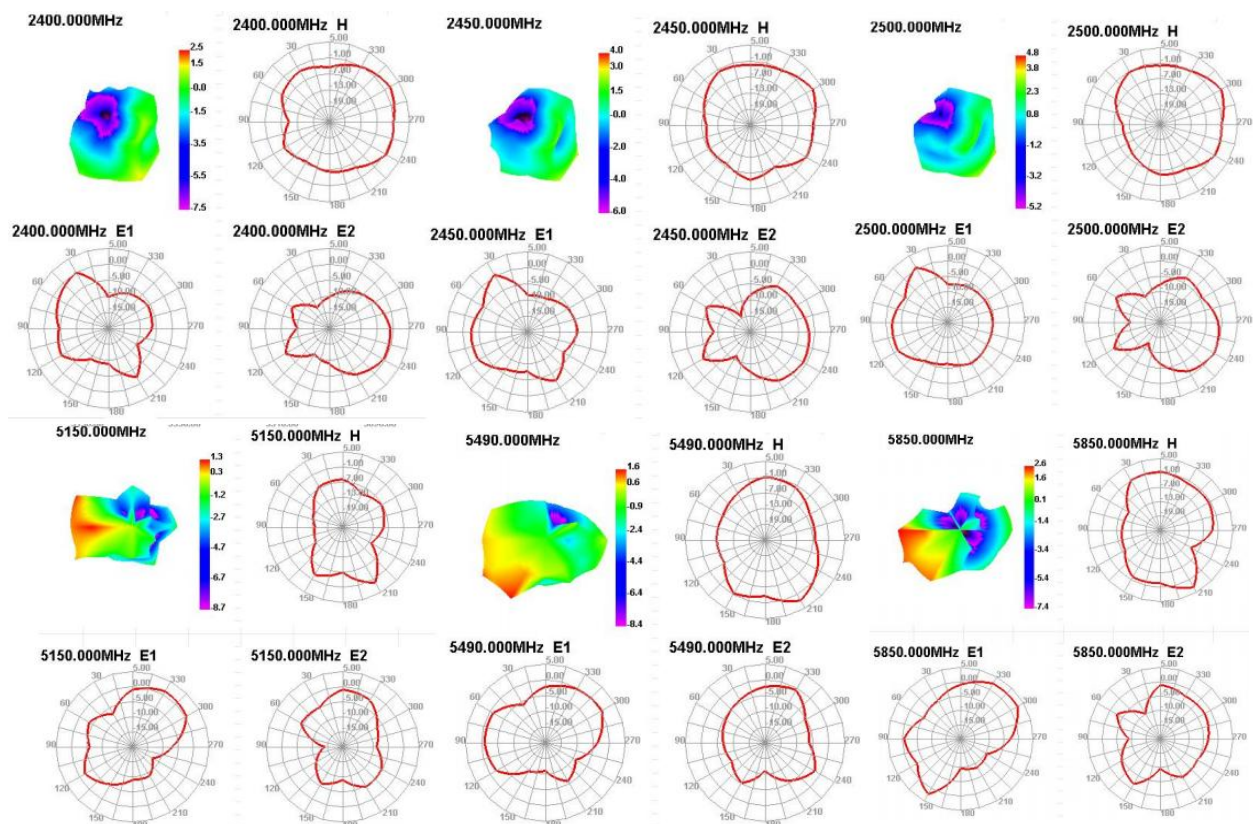
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Radiation Pattern



WIFI/BT Measured

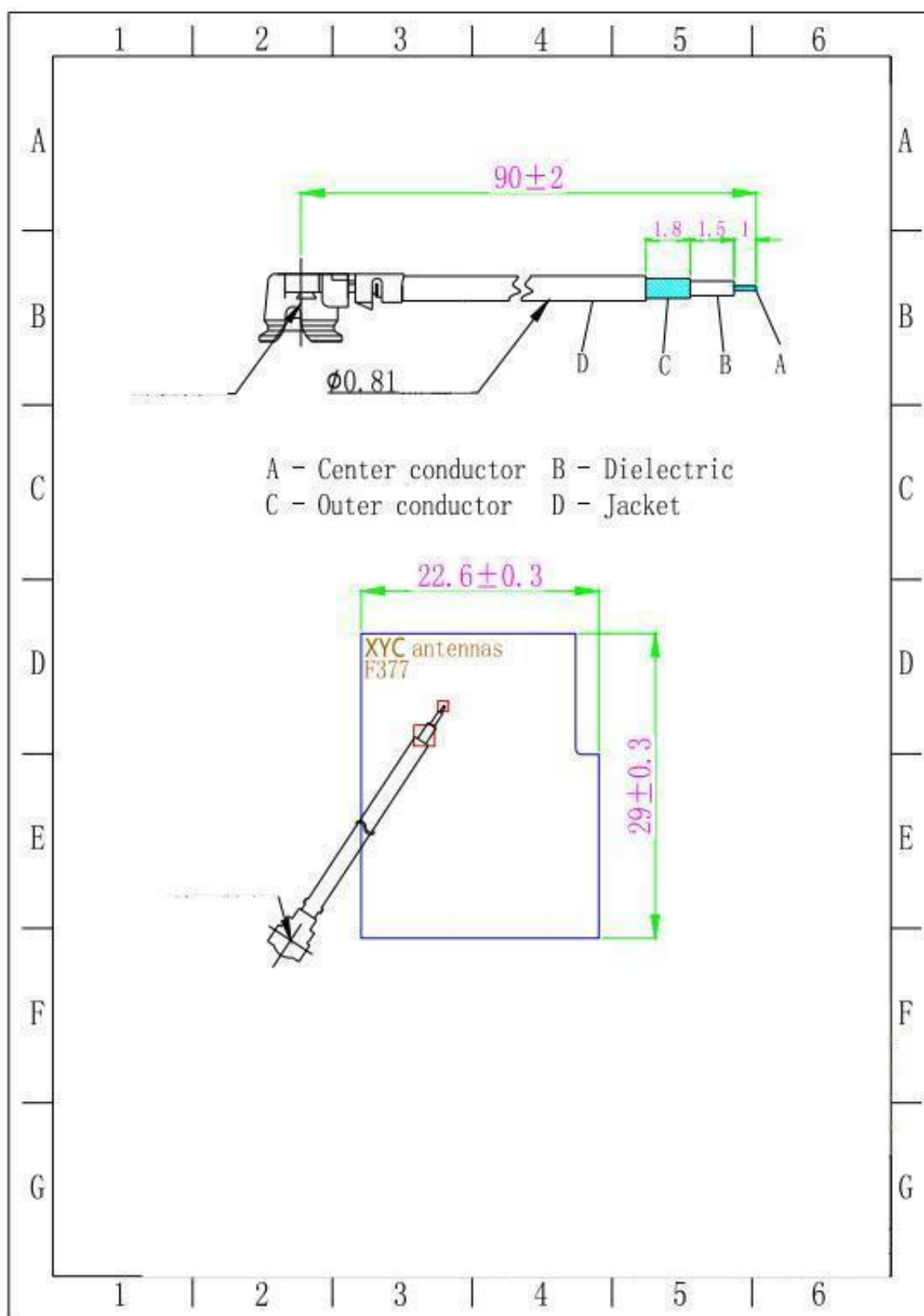


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Antenna Assembly



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Inspection Standard

特殊检查水平				一般检查水平			批量范围	样本字码	抽样数	0.65		1.0		1.5		2.5		4.0		6.0	
S-1	S-2	S-3	S-4	I	II	III				AC	RE	AC	RE	AC	RE	AC	RE	AC	RE	AC	RE
A	A	A	A	A	A	B	2---8	A	2	0	1	0	1	0	1	0	1	0	1	0	1
A	A	A	A	A	B	C	9---15	B	3	0	1	0	1	0	1	0	1	0	1	0	1
A	A	B	B	B	C	D	16---25	C	5	0	1	0	1	0	1	0	1	0	1	1	2
A	B	B	C	C	D	E	26---50	D	8	0	1	0	1	0	1	0	1	1	2	1	2
B	B	C	C	C	E	F	51---90	E	13	0	1	0	1	0	1	1	2	1	2	2	3
B	B	C	D	D	F	G	91---150	F	20	0	1	0	1	1	2	1	2	2	3	3	4
B	C	D	E	E	G	H	151---280	G	32	0	1	1	2	1	2	2	3	3	4	5	6
B	C	D	E	F	H	J	281---500	H	50	1	2	1	2	2	3	3	4	5	6	7	8
C	C	E	F	G	J	K	501---1200	J	80	1	2	2	3	3	4	5	6	7	8	10	11
C	D	E	G	H	K	L	1201---3200	K	125	2	3	3	4	5	6	7	8	10	11	14	15
C	D	F	G	J	L	M	3201---10000	L	200	3	4	5	6	7	8	10	11	14	15	21	22
C	D	F	H	K	M	N	10001---35000	M	315	5	6	7	8	10	11	14	15	21	22	21	22
D	E	G	J	L	N	P	35001---150000	N	500	7	8	10	11	14	15	21	22	21	22	21	22
D	E	G	J	M	P	Q	150001---500000	P	800	10	11	14	15	21	22	21	22	21	22	21	22
D	E	H	K	N	Q	R	500001and over	Q	1250	14	15	21	22	21	22	21	22	21	22	21	22
								R	2000	21	22	21	22	21	22	21	22	21	22	21	22

AC为合格项 RE为不合格项

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