

Antena Test Report

Manufacturer: Shenzhen Keithy Innovation Technology Co., Ltd.
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专业的4G/3G/GPS/WIFI等天线方案设计及供应商

客户名称：艾莱卡

频段：WIFI2.4G

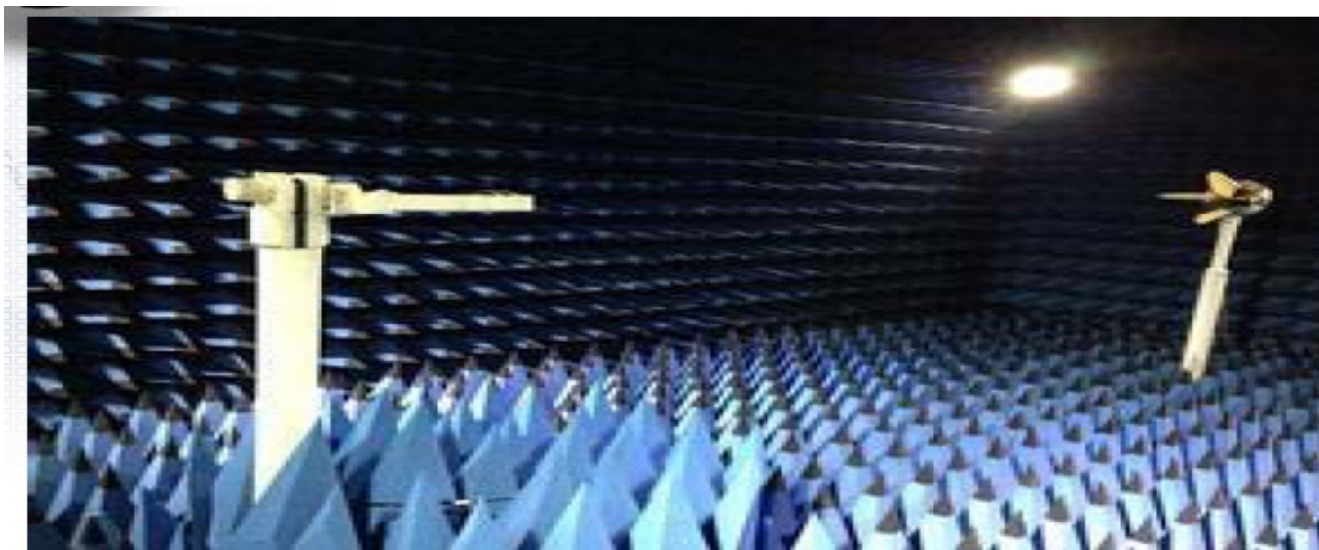
版本：A

项目名称：

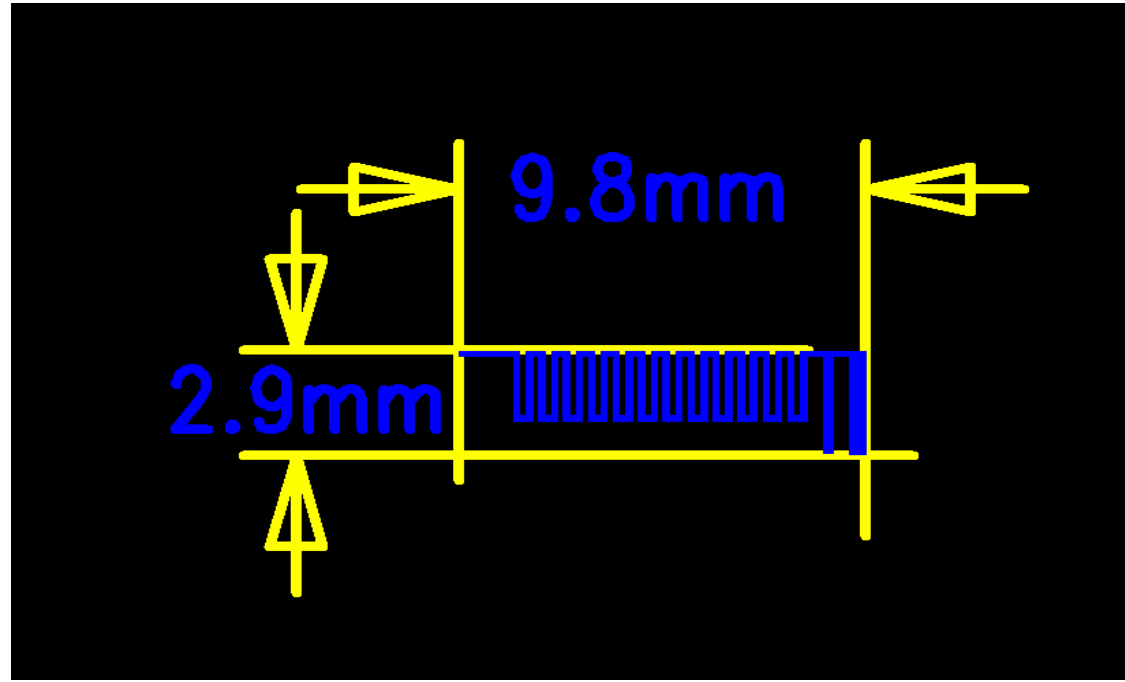
制作日期：

Test system

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



天线电路



效率&增益

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Frequency (MHz)	2300.0	2310.0	2320.0	2330.0	2340.0	2350.0	2360.0	2370.0	2380.0	2390.0	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	2510.0	2520.0	2530.0	2540.0	2550.0	2560.0	2570.0	2580.0	2590.0	2600.0	
Efficiency (dBi)	-11.75	-11.55	-11.34	-9.98	-9.47	-9.57	-9.47	-8.94	-8.16	-7.40	-6.86	-6.55	-6.58	-5.89	-5.82	-5.70	-5.60	-5.71	-5.80	-5.96	-6.23	-6.11	-6.95	-7.29	-7.29	-7.60	-7.87	-8.84	-9.13	-9.76	-9.16	
Gain (dBi)	-7.14	-6.71	-6.75	-5.36	-4.86	-4.96	-4.68	-3.80	-3.09	-2.18	-1.86	-1.52	-1.49	-0.76	-0.45	-0.23	0.30	0.10	0.41	0.32	-0.24	0.14	-0.90	-1.07	-1.03	-1.53	-1.50	-2.52	-2.59	-3.35	-2.66	
Efficiency (%)	6.69	7.00	7.34	10.04	11.29	11.05	11.30	12.77	15.29	18.21	20.61	22.15	22.00	25.75	26.16	26.92	27.53	26.86	26.29	25.33	23.81	24.48	20.20	18.64	18.67	17.39	16.34	13.06	12.23	10.57	12.13	
Directivity (dB)	4.60	4.84	4.59	4.62	4.61	4.61	4.79	5.14	5.06	5.22	5.00	5.03	5.08	5.13	5.37	5.47	5.90	5.81	6.21	6.29	5.99	6.26	6.05	6.23	6.26	6.07	6.36	6.32	6.53	6.41	6.50	
Peak Gain Position (Theta)	150.00	150.00	150.00	45.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	
Peak Gain Position (Phi)	315.00	315.00	315.00	330.00	315.00	315.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	315.00	315.00	315.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	
Efficiency ThetaPol (%)	2.24	2.34	2.42	3.25	3.58	3.46	3.50	3.97	4.66	5.51	6.13	6.58	6.47	7.50	7.37	7.40	7.39	7.18	6.97	6.78	6.46	6.60	5.51	5.12	5.07	4.81	4.49	3.59	3.33	2.85	3.31	
Efficiency PhiPol (%)	4.45	4.66	4.92	6.80	7.70	7.59	7.79	8.81	10.62	12.69	14.48	15.58	15.52	18.25	18.80	19.52	20.14	19.68	19.32	18.55	17.36	17.88	14.68	13.53	13.60	12.58	11.85	9.48	8.90	7.72	8.81	
Upper Hem. Efficiency (%)	3.24	3.39	3.55	4.95	5.52	5.55	5.70	6.31	7.70	8.96	10.15	10.88	10.79	12.57	12.85	13.45	13.47	13.62	12.81	12.24	11.82	11.60	9.64	8.87	8.57	8.24	7.57	6.06	5.71	4.99	5.69	
Lower Hem. Efficiency (%)	3.45	3.62	3.79	5.09	5.76	5.49	5.60	6.46	7.59	9.25	10.46	11.28	11.21	13.18	13.31	13.46	14.06	13.24	13.48	13.09	11.99	12.88	10.55	9.78	10.10	9.15	8.76	7.00	6.52	5.57	6.44	
T90(H)圆度	14.25	16.46	16.42	17.70	17.40	18.23	18.76	19.65	19.86	23.22	20.73	22.93	26.28	25.24	21.65	20.05	19.31	18.45	20.28	22.67	24.09	22.56	20.88	19.70	21.42	23.55	23.37	22.44	19.05	16.82	16.02	
Gain 15deg (dBi)																																
E1(XZ)波瓣宽度	48.00	51.00	56.00	64.00	61.00	64.00	63.00	54.00	62.00	60.00	59.00	56.00	57.00	59.00	62.00	52.00	59.00	55.00	53.00	48.00	50.00	49.00	50.00	59.00	51.00	53.00	55.00	54.00	55.00	56.00		
E1(XZ)前后比	0.65	0.57	0.59	0.25	0.55	0.85	1.23	1.07	1.48	0.71	0.24	0.33	0.63	0.46	0.25	0.00	0.00	0.24	0.45	0.58	1.12	0.94	0.55	0.31	0.00	0.07	0.56	0.12	0.25	0.00	0.00	
E2(YZ)波瓣宽度	114.00	115.00	145.00	145.00	144.00	179.00	181.00	130.00	129.00	124.00	122.00	121.00	121.00	118.00	123.00	125.00	125.00	127.00	126.00	127.00	129.00	129.00	132.00	137.00	132.00	139.00	137.00	136.00	137.00	136.00	135.00	
E2(YZ)前后比	1.00	0.95	0.37	0.50	0.72	0.85	0.38	0.51	0.18	0.45	0.26	0.51	0.49	0.89	0.82	0.86	0.86	0.94	1.05	0.90	1.01	0.94	1.02	1.09	1.66	1.28	1.53	1.73	1.73	1.52	1.44	
最大增益处轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
顶点(Theta=0)处轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
仰角10度最差(大)轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
Hc(XY)波瓣宽度	77.00	79.00	77.00	75.00	75.00	74.00	73.00	72.00	70.00	72.00	74.00	71.00	70.00	68.00	67.00	66.00	65.00	64.00	66.00	64.00	63.00	66.00	66.00	64.00	64.00	65.00	63.00	64.00	62.00	60.00	59.00	
Hc(XY)前后比	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
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