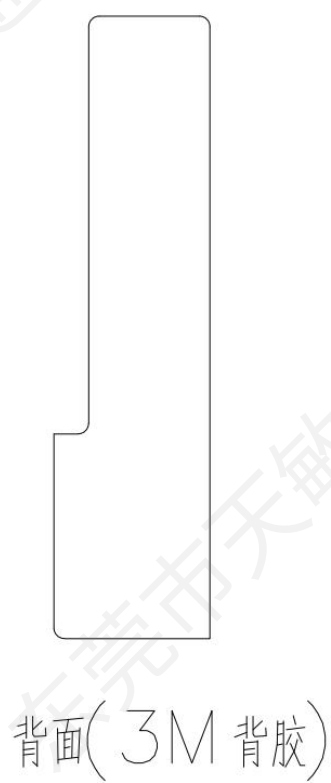
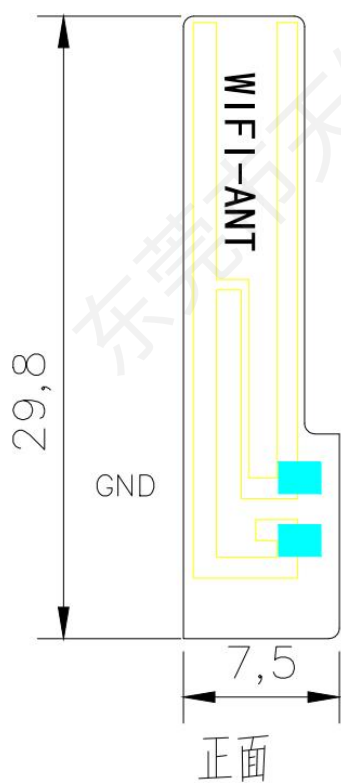


WT+WIFI 2dbi FPC Antenna

1、Product Picture:



2、Structural dimension drawing



3、Specification

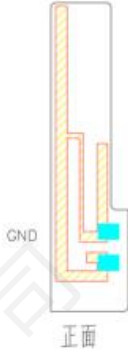
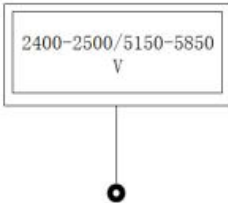
ANTAFQ2458G2V70FPC02

WT+WIFI 2dBi 全向柔性FPC天线 WT + WIFI 2dBi Omnidirectional Flexible FPC Antenna



天线“芯”启程
专注 专业

版本: V3.0

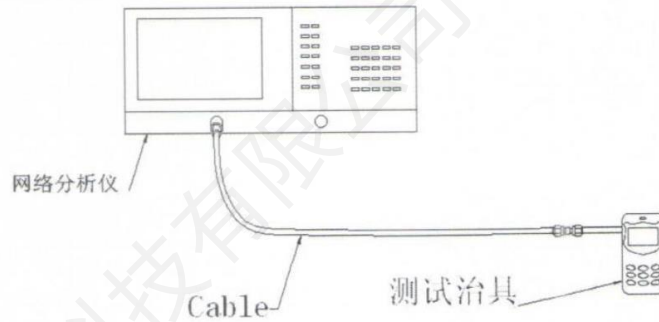
Electrical index			
Common	FreqRange (MHz)	2400-2500/5150-5850	
	Polarization	vertical	
	Electrical Downtilt (°)	0	
Circuit	VSWR	≤2.0/≤2.5	
	Max Power (W)	≥100	
	Impedance (Ω)	50	
Radiation	Horizontal 3dB beamwidth(°)	360	
	Vertical 3dB beamwidth(°)	70±10	
	Gain(dBi)	2±0.5/3±0.5	
	Out-of-roundness(dB)	/	
Mechanical index			
Connector		Pin-type	
Dimensions(L*W*H) (mm)		29.8*7.5*0.16	
Packing dimensions		/	
Antenna weight(kg)		0.02/100PCS	
Installation accessory weight (kg)		/	
Radome material		Surface coated with black oil	
The environment temperature(° C)		Operating temperature: -40~+60 Limiting temperature: -55~+75	
Lightning protection		DC grounding	

4、VSWR test

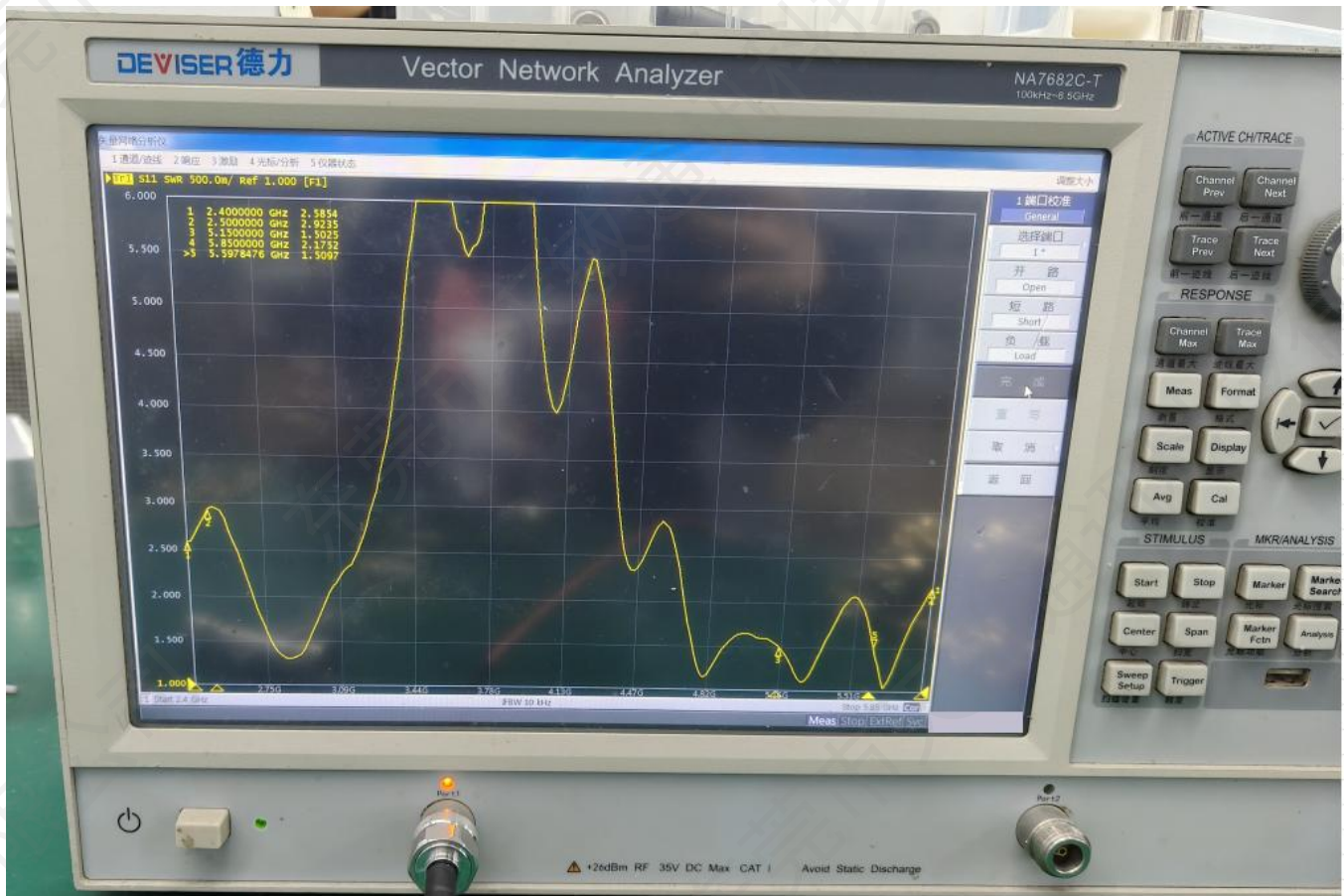
Test equipment: Network analyzer (NA7682C-T)

Test method: Connect a 50-ohm CABLE cable from the test port of the instrument, calibrate with a calibration piece, and then connect the SMA connector of the sample device. Record the return loss and standing wave ratio corresponding to each frequency point.

Test schematic diagram as follows:



测试示意图

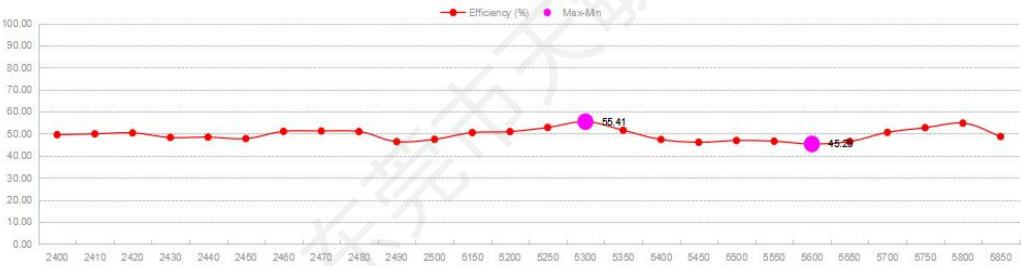


5. Gain data

Test system	OTC darkroom
Testing environment	Temperature: 23 ± 3 ° C, Humidity: 50 ± 15%
Ttest equipment	Using the vector network analyzer Agilent E5062C for analyzing passive data
Test equipment	Using the comprehensive tester Rohde CMW500 with active data
Test location	Dongguan Tianmin
Testing personnel	Rosen Li

5.1 Test data

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
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Efficiency (dBi)	-3.05	-3.02	-2.98	-3.17	-3.15	-3.21	-2.92	-2.91	-2.93	-3.34	-3.24	-2.97	-2.93	-2.77	-2.56	-2.88	-3.25	-3.37	-3.29	-3.32	-3.44	-3.33	-2.96	-2.78	-2.62	-3.13
Gain (dBi)	1.04	1.25	1.35	1.16	1.11	1.08	1.32	1.27	1.15	0.62	0.57	2.36	2.44	2.55	2.59	2.09	1.33	1.51	1.64	1.80	1.86	2.22	3.18	3.99	4.52	3.93
Efficiency (%)	49.49	49.87	50.33	48.24	48.39	47.73	51.01	51.20	50.93	46.35	47.39	50.46	50.91	52.78	55.41	51.52	47.33	46.07	46.84	46.55	45.29	46.42	50.56	52.69	54.76	48.68
Directivity (dB)	4.09	4.27	4.33	4.32	4.26	4.29	4.24	4.18	4.08	3.96	3.81	5.33	5.37	5.32	5.16	4.97	4.58	4.88	4.94	5.12	5.30	5.56	6.15	6.77	7.14	7.05
Peak Gain Position (Theta)	63.00	63.00	63.00	64.00	65.00	65.00	65.00	65.00	58.00	57.00	59.00	74.00	75.00	75.00	76.00	77.00	108.00	111.00	112.00	112.00	112.00	103.00	102.00	102.00	102.00	102.00
Peak Gain Position (Phi)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	90.00	90.00	270.00	270.00	270.00	270.00	270.00	0.00	270.00	270.00	270.00	270.00	90.00	90.00	90.00	90.00	
Efficiency ThetaPol (%)	47.98	48.39	48.82	46.76	46.92	46.33	49.59	49.85	49.62	45.22	46.32	48.04	48.32	49.98	52.40	48.73	44.70	43.72	44.54	44.24	43.18	44.36	48.32	50.04	51.02	43.50
Efficiency PhiPol (%)	1.51	1.49	1.50	1.48	1.47	1.41	1.43	1.35	1.31	1.14	1.07	2.42	2.59	2.81	3.01	2.78	2.63	2.35	2.32	2.31	2.12	2.05	2.24	2.66	3.74	5.18
Upper Hem. Efficiency (%)	36.34	37.05	37.63	36.15	36.45	36.29	38.96	39.04	38.54	34.58	34.73	31.49	30.66	30.62	30.16	27.13	22.98	21.46	21.32	20.48	19.21	18.79	19.12	18.61	18.78	16.95
Lower Hem. Efficiency (%)	13.15	12.82	12.70	12.09	11.94	11.44	12.06	12.16	12.39	11.77	12.66	18.97	20.24	22.16	25.25	24.39	24.35	24.61	25.54	26.07	26.08	27.63	31.44	34.08	35.98	31.73
T90(H)圖度	1.37	1.40	1.35	1.15	0.96	0.68	0.48	0.47	0.63	0.91	1.08	3.77	3.95	4.91	8.06	12.86	12.60	10.39	5.89	7.12	11.12	9.97	7.38	5.99	4.92	3.63
Gain 15deg (dBi)	41.00	40.00	40.00	40.00	40.00	40.00	41.00	42.00	43.00	44.00	63.00	24.00	24.00	14.00	13.00	13.00	12.00	13.00	12.00	13.00	14.00	14.00	21.00	20.00	20.00	20.00
E1(XZ)波通寬度	6.67	7.20	7.02	6.45	6.04	6.21	6.72	7.33	7.49	7.39	7.62	3.87	3.82	4.58	4.76	5.39	6.40	6.58	7.08	7.28	7.46	7.98	8.63	8.93	7.84	6.58
E1(XZ)前後比	47.00	47.00	47.00	47.00	49.00	49.00	49.00	49.00	50.00	51.00	52.00	23.00	26.00	21.00	23.00	26.00	20.00	16.00	17.00	18.00	18.00	22.00	20.00	18.00	15.00	15.00
E2(YZ)波通寬度	4.42	4.70	4.81	4.53	4.09	4.00	4.40	4.98	5.28	5.25	5.38	2.98	3.14	3.12	2.81	2.78	2.52	2.99	2.85	3.29	3.85	4.63	5.44	5.98	5.46	4.22
E2(YZ)前後比	15.72	17.00	17.62	17.50	16.95	17.53	17.93	18.49	70.19	34.32	34.27	24.51	23.49	21.05	22.37	22.45	11.28	4.46	3.20	1.69	1.60	23.40	44.20	34.61	27.98	25.30
最大增益外軸比(P)	25.50	23.01	11.09	7.08	5.71	5.25	4.36	2.61	3.12	5.41	6.49	8.53	9.52	6.54	10.93	28.48	16.32	15.99	19.95	32.86	21.43	19.58	22.91	8.17	7.47	30.00
頂點(Theta=0)外軸比(P)	63.84	65.26	67.09	60.92	70.06	56.03	74.55	55.20	70.19	85.40	62.85	63.00	72.67	82.51	64.31	49.28	74.37	60.63	67.44	64.34	65.48	66.04	59.32	59.55	61.32	51.64
Hc(XY)波通寬度	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	312.00	233.00	196.00	170.00	177.00	216.00	231.00	117.00	174.00	148.00	152.00	158.00	178.00	201.00	257.00
Hc(XY)前後比	0.00	0.00	0.00	0.00	0.10	0.17	0.17	0.27	0.42	0.65	0.77	0.00	0.00	0.00	0.00	0.00	0.57	2.57	4.75	7.41	6.78	5.21	3.81	3.12	2.65	
左邊圖極化效率(%)	23.90	24.46	24.68	23.48	23.59	23.30	24.65	24.27	24.03	22.20	23.03	24.23	24.48	25.15	26.04	24.01	21.76	21.25	21.97	22.82	22.31	22.36	24.12	24.74	24.67	21.02
右邊圖極化效率(%)	25.59	25.41	25.64	24.76	24.80	24.43	26.36	26.92	26.90	24.16	24.36	26.23	26.43	27.63	29.38	27.51	25.57	24.82	24.89	23.73	22.99	24.06	26.44	27.95	30.08	27.66



6. Antenna Manufacturer Company Information:

Company Name: Dongguan Tianmin Communication Technology Co., Ltd.

Address: No. 7, Gangzi Street, Changping Town, Dongguan City, Guangdong Province

Email: 289326057@QQ.com