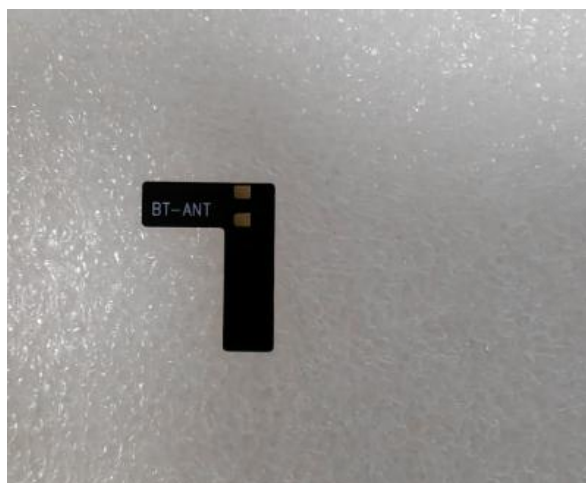
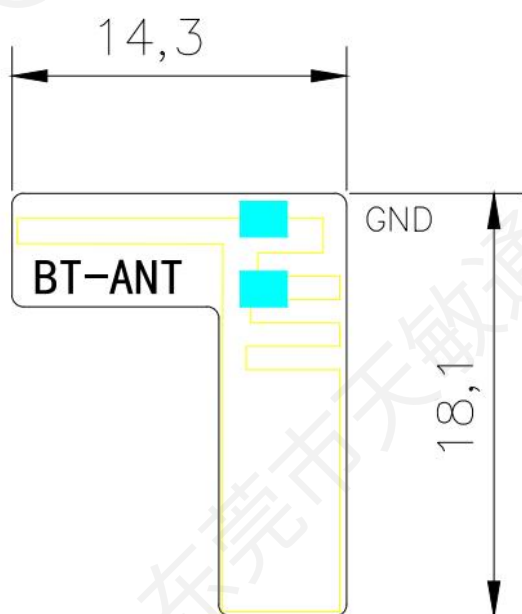


WT+BT 2dbi FPC Antenna

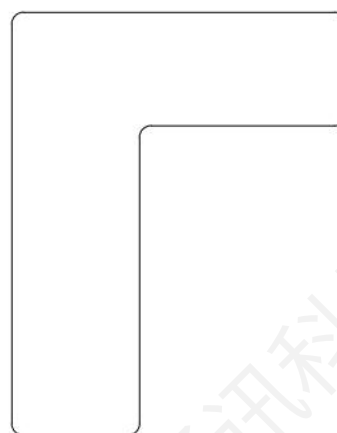
1、Product Picture:



2、Structural dimension drawing



正面



背面(3M 背胶)

3、Specification



天线“芯”启程
专注·专业

ANTAFQ2.4G2V70FPC02

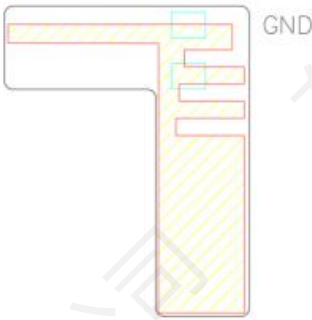
WT+BT 2dBi 全向柔性FPC天线

WT + BT 2dBi Omnidirectional Flexible FPC Antenna

版本: V3.0

Electrical index

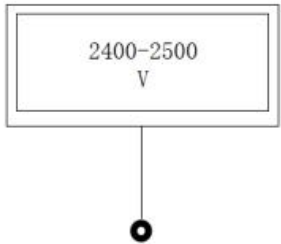
Common	FreqRange (MHz)	2400-2500
	Polarization	垂直
	Electrical Downtilt (°)	0
Circuit	VSWR	≤2.5
	Max Power (W)	≥100
	Impedance (Ω)	50
Radiation	Horizontal 3dB beamwidth(°)	360
	Vertical 3dB beamwidth(°)	70±10
	Gain(dBi)	2±0.5
	Out-of-roundness (dB)	/



正面

Mechanical index

Connector	Pin-type
Dimensions (L*W*H) (mm)	18.1*5.5*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

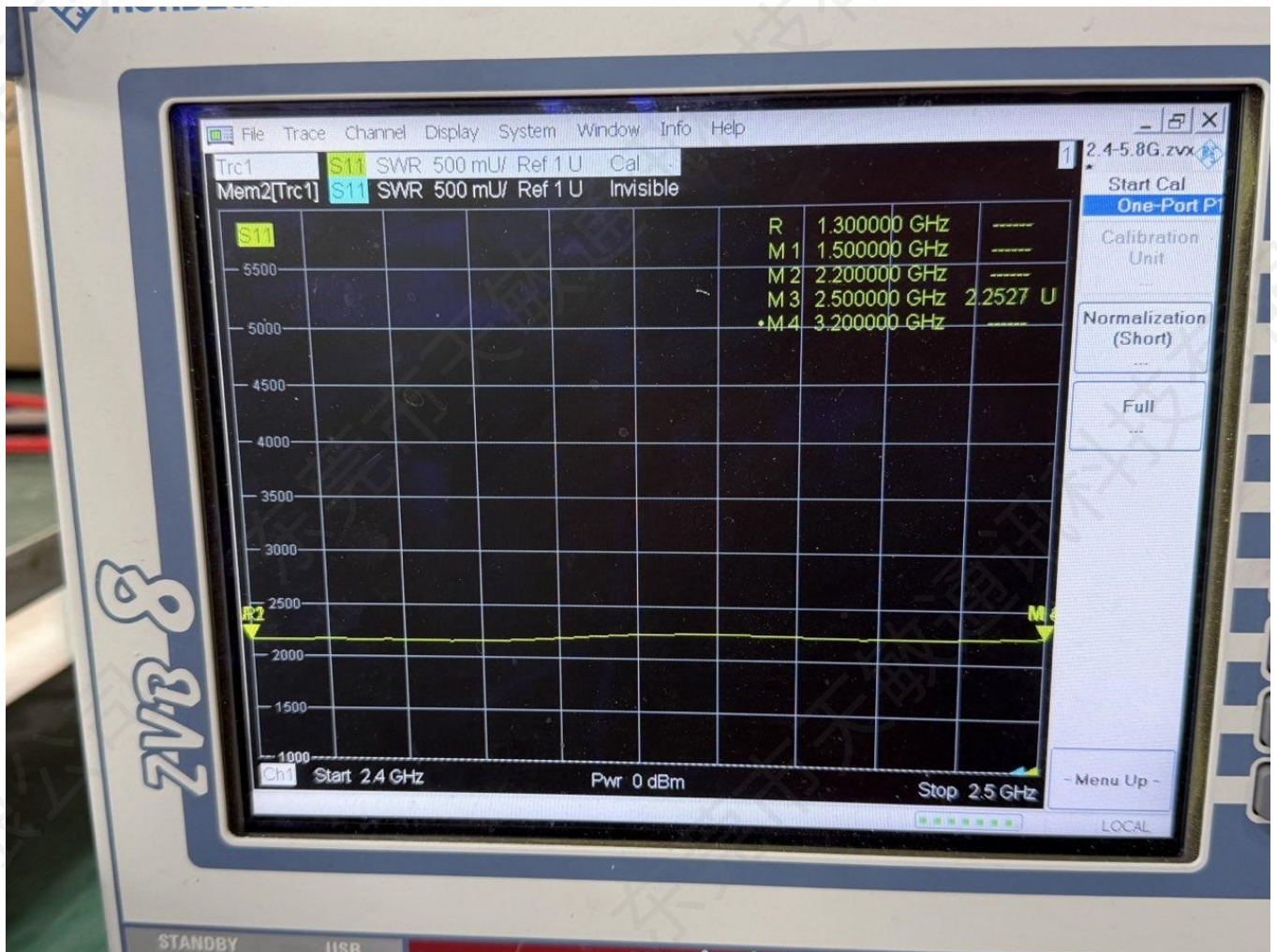
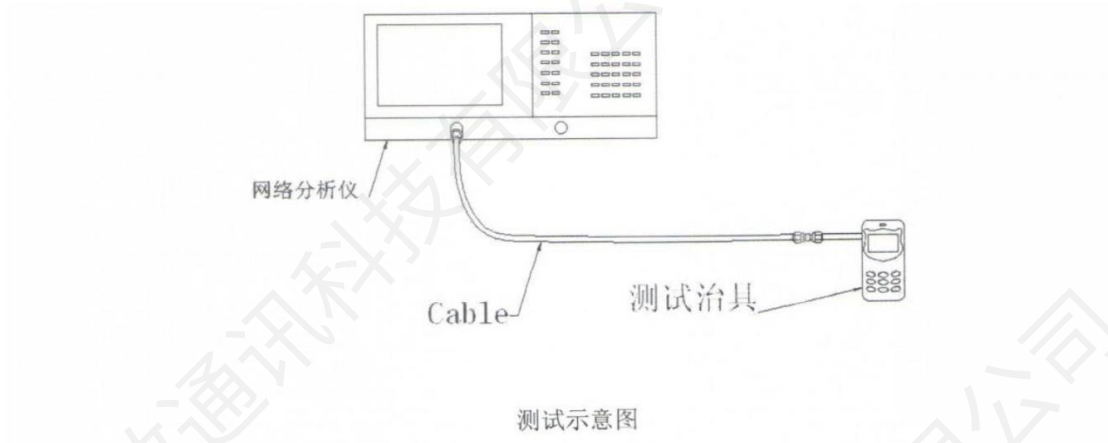


4、VSWR test

Test equipment: Network analyzer (Rohde ZV8)

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:

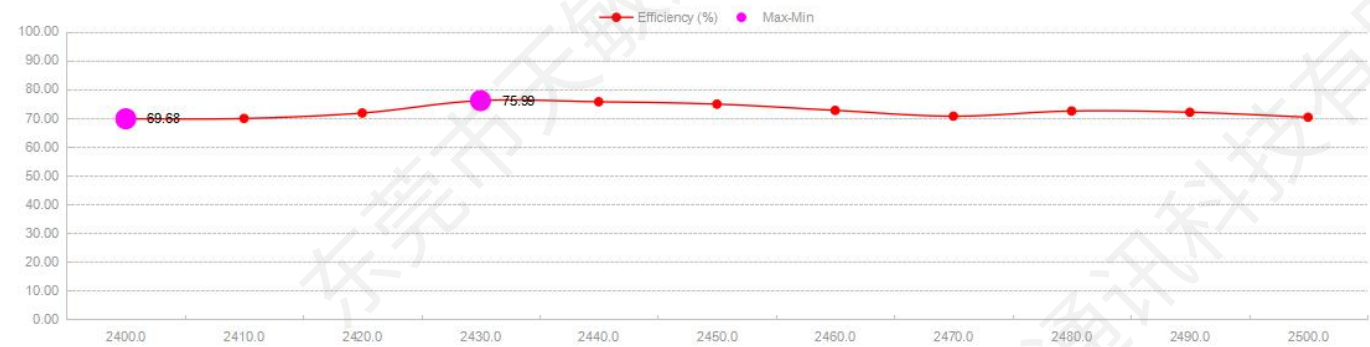


5. Darkroom test

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
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-1.57	-1.56	-1.44	-1.19	-1.21	-1.26	-1.39	-1.51	-1.40	-1.43	-1.53
Gain (dBi)	2.81	2.83	3.00	3.22	3.18	3.09	2.94	2.84	2.99	2.99	2.87
Efficiency (%)	69.68	69.80	71.70	75.99	75.61	74.79	72.62	70.60	72.40	71.97	70.25
Directivity (dB)	4.38	4.39	4.44	4.41	4.39	4.35	4.33	4.35	4.39	4.41	4.40
T90(H)圆度	0.83	0.86	0.95	1.12	1.24	1.22	1.21	1.24	1.29	1.35	1.44
Gain 15deg (dBi)											
E1(XZ)波谱宽度	22.67	22.40	22.23	21.95	22.13	22.67	22.56	21.96	21.93	22.00	21.70
E1(XZ)前后比	11.96	12.51	12.84	12.61	12.75	13.03	12.80	12.30	12.00	11.85	11.67
最大增益处轴比(P)	25.12	23.98	24.40	25.88	26.28	27.01	26.08	25.63	25.28	25.52	24.41
Hc(XY)波谱宽度	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00
左旋圆极化效率(%)	36.51	35.67	36.08	38.08	38.38	38.36	38.00	37.13	38.28	38.34	38.48
右旋圆极化效率(%)	33.17	34.13	35.62	37.91	37.22	36.43	34.62	33.46	34.12	33.63	31.77
轴对称天线主瓣下倾角度(平均值)	18.53	18.40	18.11	18.54	18.96	19.71	19.85	19.48	19.06	19.33	19.77
Empty											



6. Antenna Manufacturer Company Information:
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Email: 289326057@QQ.com