



深圳市安特通讯科技有限公司

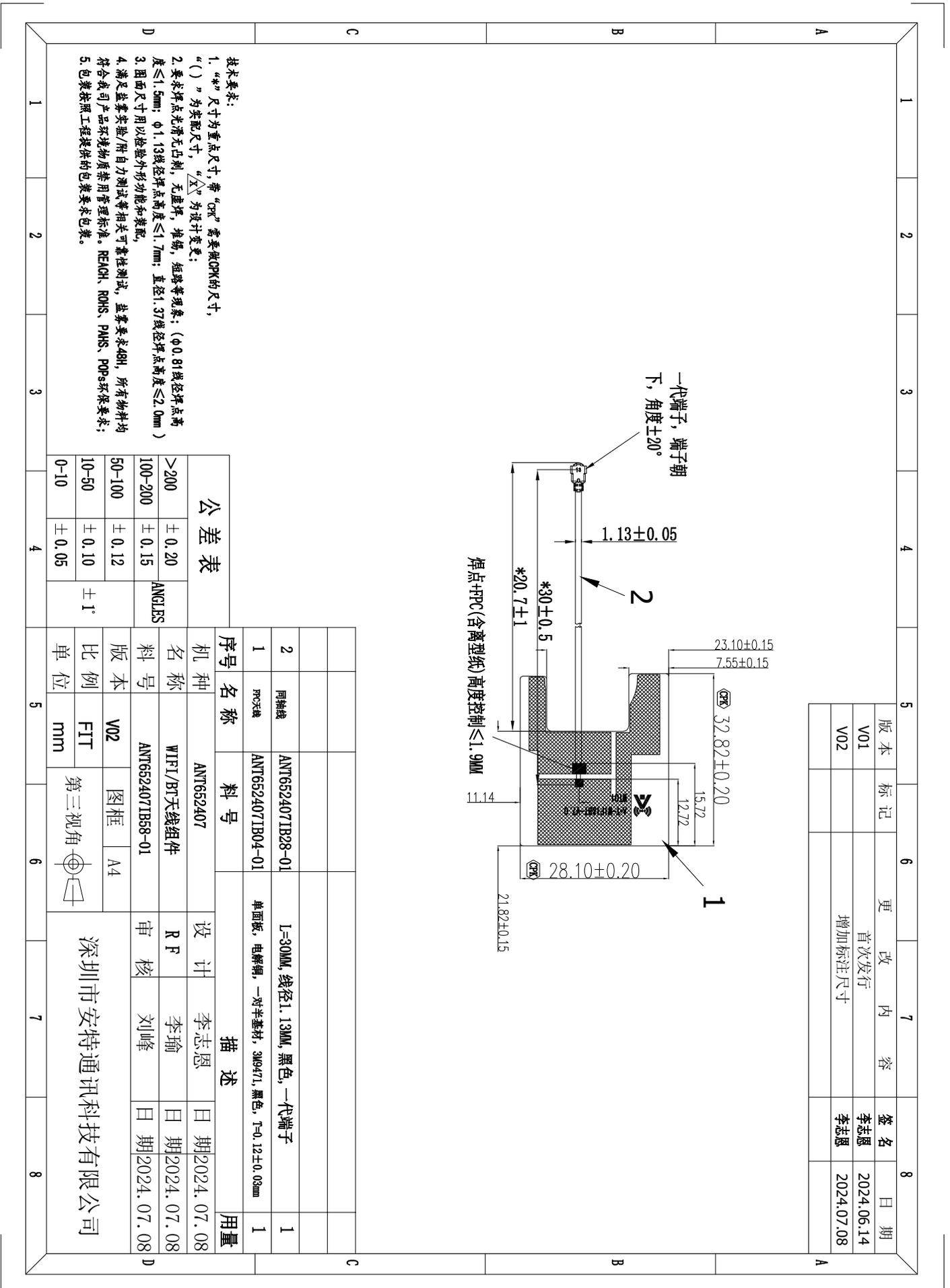
Shenzhen ANT Communication Technology Co., LTD.

Product specification sheet

customer	虎一	project	WT01
Customer part number	305160012	Part number	ANT652407IB58-01
version	V2.0	describe	WT01-WIFI&BT 天线, FPC, 黑色, 一代端子, 1.13 线径, L=30MM
RF	LIYU	ME	LIZHIEN
technical manager	LIUFENG	date	2024/7/11

customer confirmation	
Does the assembly meet your company's requirements: <input type="checkbox"/> OK <input type="checkbox"/> NG	

1. Structural drawing file



Version	Marking	Changes	Signature	Date
V01		Initial Release	李志恩	2024.06.14
V02		Added dimension	李志恩	2024.07.08

公差表

公差	公差	公差
>200	± 0.20	ANGLES
100-200	± 0.15	
50-100	± 0.12	
10-50	± 0.10	
0-10	± 0.05	

Serial No.	Material Name	Material No.	Description	Quantity
1	同轴电缆	ANT6524071B04-01	单面板, 电镀锌, 一对半基材, 3M9471, 黑色, T=0.12 \pm 0.03mm	1
2	同轴电缆	ANT6524071B28-01	L=30MM, 线径1.13MM, 黑色, 一代端子	1

Design: 李志恩, Date: 2024.07.08
Checked: 李瑜, Date: 2024.07.08
Checked: 刘峰, Date: 2024.07.08

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2. Product specifications and technical parameters:

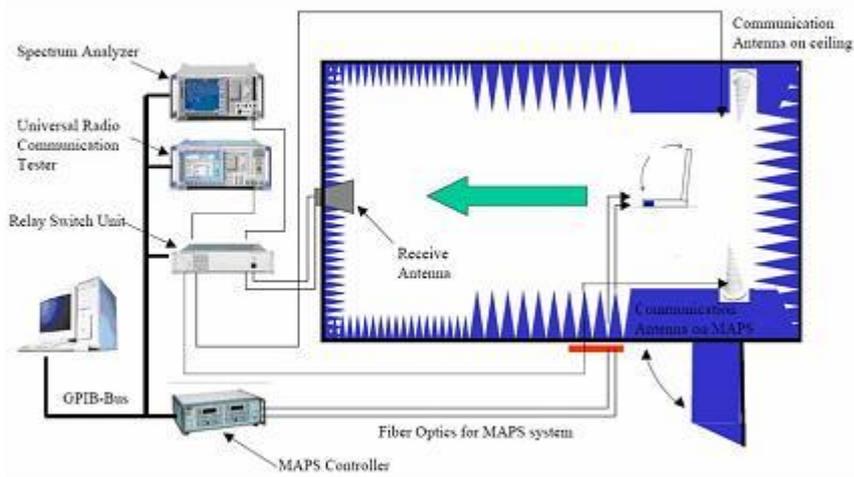
Electrical performance parameters	
Frequency range	2400-2500MHZ
Impedance	50 Ω
standing-wave ratio	≤2
Maximum gain	1.26dBi
efficiency	>38%
Polarization mode	vertical
Radiation direction	Omnidirectional
mechanical parameters	
Antenna size	32.82*28.1MM
Coaxial line type	Φ1.13
Joint type	First generation terminals
Salt spray test	24H
Environmental parameters	
operation temperature	-45℃--+85℃

3. Test equipment

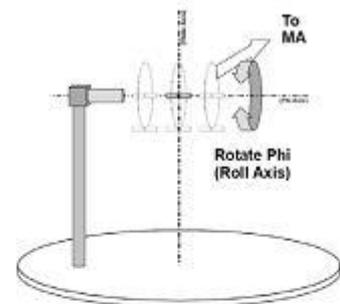
3.1. Agilent E5071C

3.2. CMW500 Agilent 8960

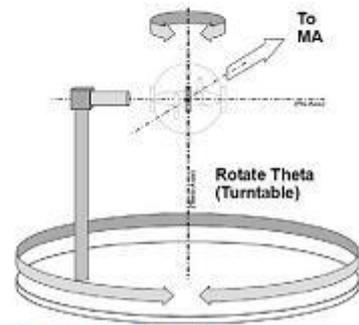
3.3. SATIMO-16 XH-24



(Testing by 3D anechoic chamber)



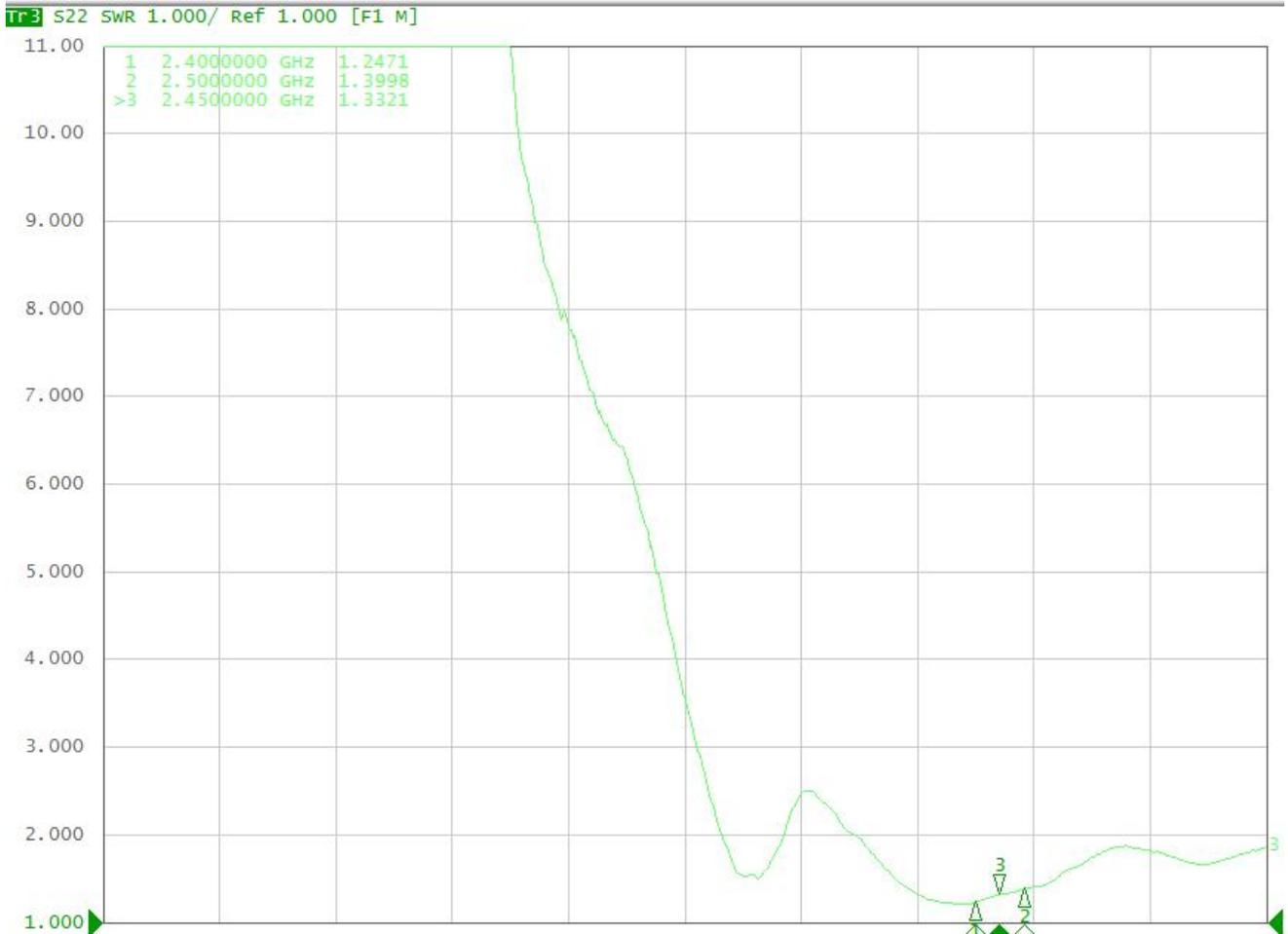
Phi axis test



Theta axis test

4. Antenna testing parameters

S11



Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
2400	-3.75	42.16	1.21
2410	-3.89	40.83	1.13
2420	-3.91	40.65	1.23
2430	-3.84	41.31	1.2
2440	-3.87	40.98	1.07
2450	-3.97	40.11	1.26
2460	-3.99	39.89	1.18
2470	-3.95	40.26	0.98
2480	-3.99	39.92	0.93
2490	-4.12	38.74	0.87
2500	-4.13	38.66	0.86

深圳市安特通讯科技有限公司规格书

