



APPROVAL SHEET

Customer Name sai bo yu hua

Product Model T02

Customer P/N _____

Specifications 2.4G BT

Xin heng yang P/N TX.10.0245.T02

Production date _____

Revision 2.0

Southstar		
FICTION	DQE	R&D
Customer		
PUR	QC	R&D

Shenzhen ADD: 7A-909 Kanghesheng Building, No. 1, Xili Chuangsheng Road, Nanshan District, Shenzhen

Tel: 0755-83600916 **Fax:** 852-36895995

HttpS://www.xhy-2008.com



History

Version	Date	Change Description	Note
1.0	2022-11-11	First Edition	
2.0	2022-11-26	Changing languages	



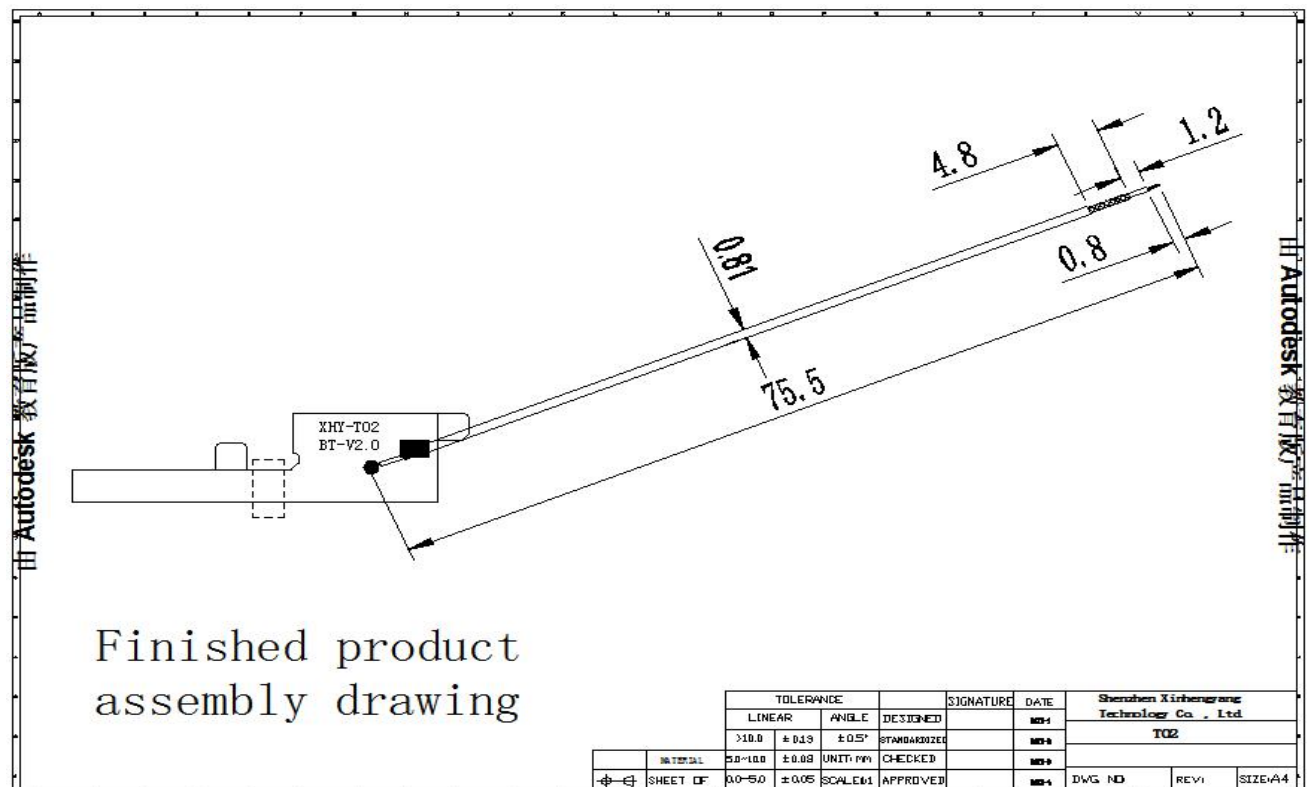
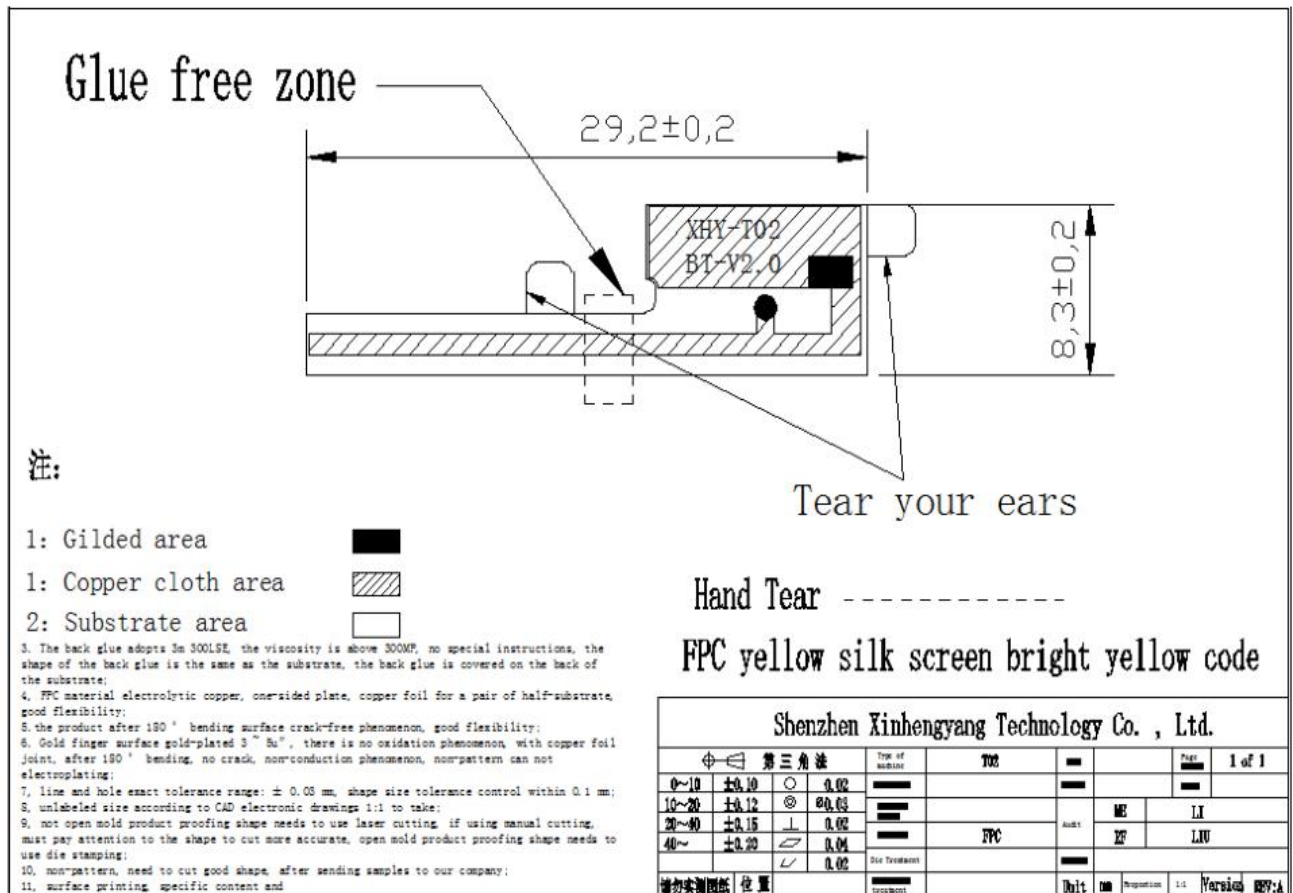
Index

一、	Cover	1
二、	Version record	2
三、	Index	3
四、	The basic parameters	4
五、	Product Drawing	5-6
六、	Test Equipment & Conditions	7
七、	Test Report	8-10
八、	Installation method	11

Antenna Specification

A. Electrical Characteristics	
Frequency	2400MHz~ 2500MHz
VSWR	<3
Efficiency	>10%
Impedance	50 Ohm
Polarization	Linear
Gain	-1.85dBi
Note	
B. Material & Mechanical Characteristics	
Material of Radiator	FPC Yellow
Cable Type	∅ 1.13mm black
Connector Type	Welding
weight	
C. Environmental	
Operation Temperature	- 30 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 70 °C

Product Drawing:



Test Equipment & Conditions

1. NetWork Analyzers:

Keysight E5071B

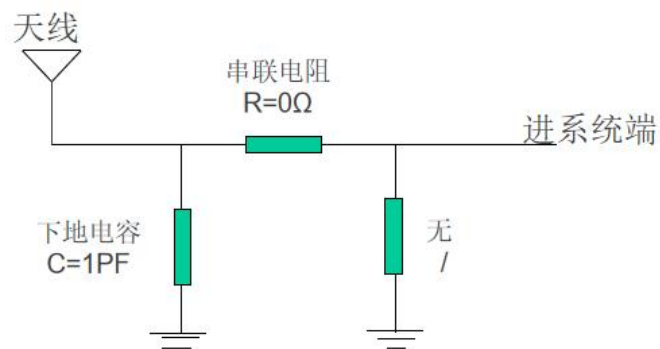
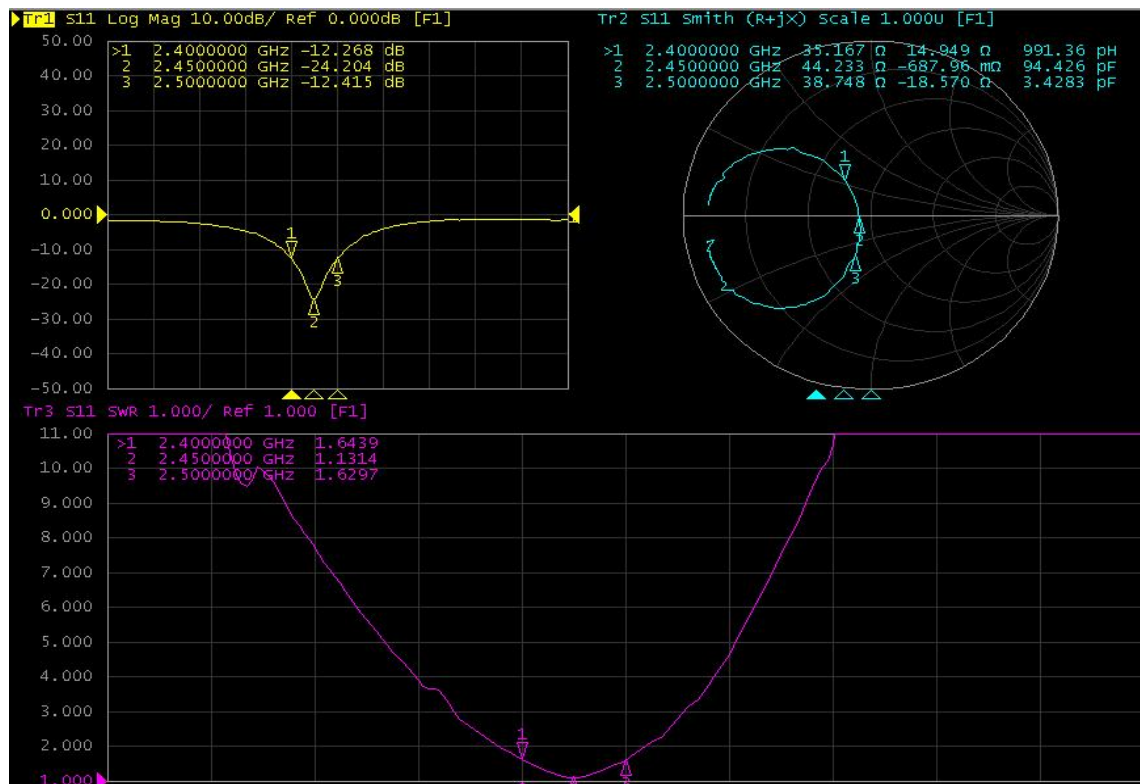
2. Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D Chamber Test System:



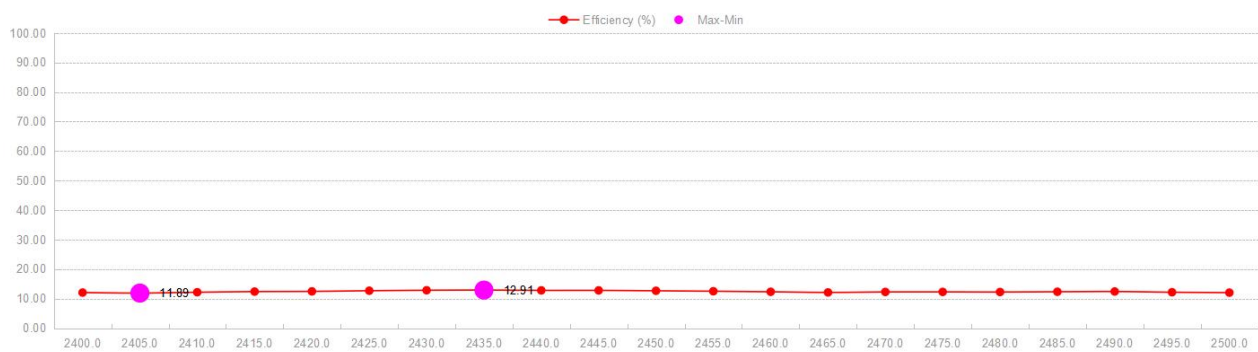
Antenna Impedance: S11



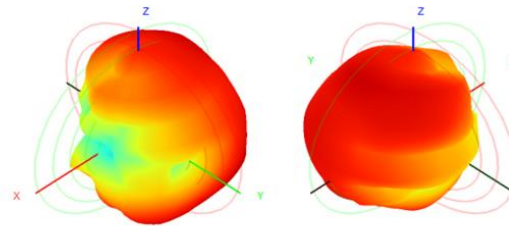
位置	描述	供应商
下地电容	C=1PF	村田
串联电阻	R=0Ω	村田
无	/	/

Efficiency & Gain:

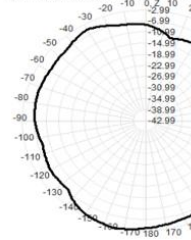
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Frequency (MHz)	2400.0	2405.0	2410.0	2415.0	2420.0	2425.0	2430.0	2435.0	2440.0	2445.0	2450.0	2455.0	2460.0	2465.0	2470.0	2475.0	2480.0	2485.0	2490.0	2495.0	2500.0
Efficiency (dBi)	-9.18	-9.25	-9.14	-9.07	-9.04	-8.96	-8.91	-8.89	-8.92	-8.92	-8.97	-9.02	-9.09	-9.17	-9.11	-9.10	-9.12	-9.08	-9.06	-9.14	-9.19
Gain (dBi)	-2.35	-2.38	-2.21	-2.00	-1.92	-1.85	-1.79	-1.81	-1.90	-1.93	-1.99	-2.07	-2.13	-2.14	-2.10	-1.98	-1.94	-1.86	-1.79	-1.72	-1.70
Efficiency (%)	12.06	11.89	12.18	12.40	12.47	12.69	12.85	12.91	12.82	12.81	12.67	12.52	12.34	12.12	12.28	12.30	12.26	12.35	12.43	12.18	12.05



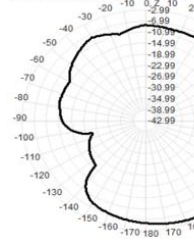
Antenna 3D & 2D pattern:



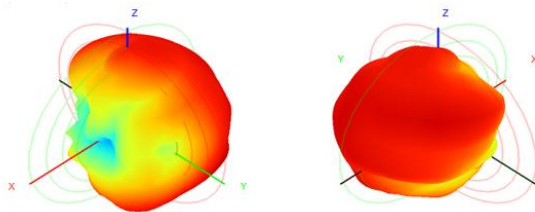
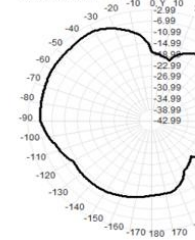
2400.0MHz Total(E1-XZ), Max=-2.99dBi



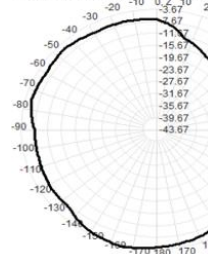
2400.0MHz Total(E2-YZ), Max=-3.86dBi



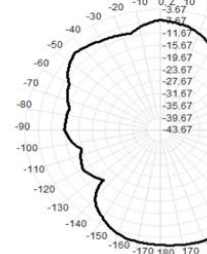
Total(H-XY), Max=-5.61dBi, CirD=19.16



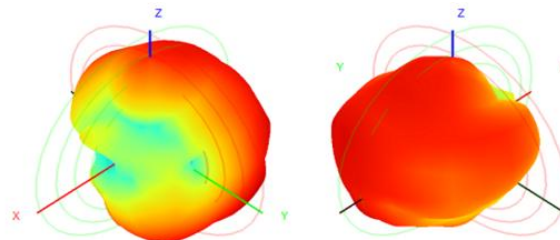
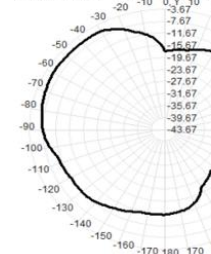
2450.0MHz Total(E1-XZ), Max=-3.67dBi



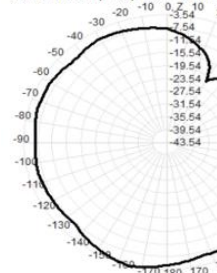
2450.0MHz Total(E2-YZ), Max=-4.36dBi



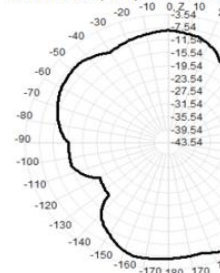
Total(H-XY), Max=-5.83dBi, CirD=21.58



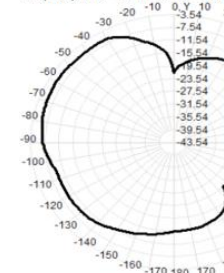
2500.0MHz Total(E1-XZ), Max=-3.54dBi



2500.0MHz Total(E2-YZ), Max=-5.21dBi



Total(H-XY), Max=-5.71dBi, CirD=18.53



Shenzhen Xinhengyang communication Technology Co., Ltd

Installation method:

