



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

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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	



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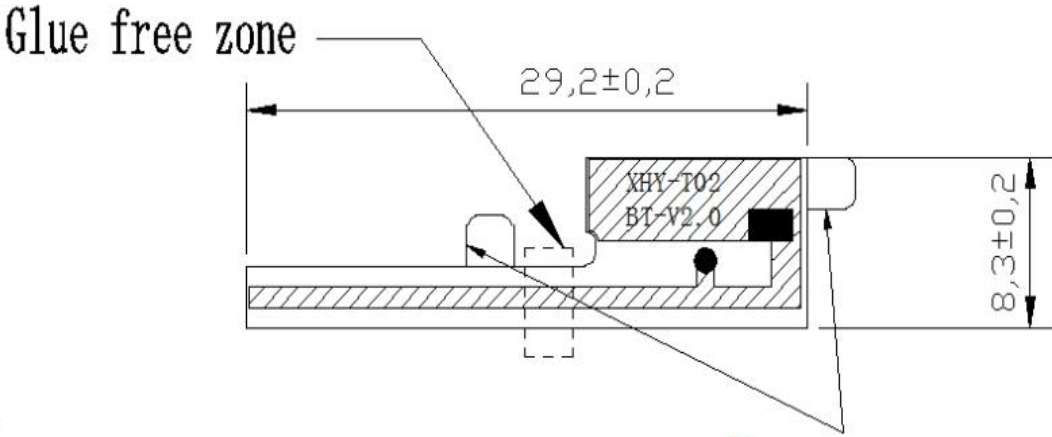
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Antenna Specification

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:




Glue free zone


29,2±0,2


XHY-T02
BT-V2.0

8,3±0,2

注:

1: Gilded area 

1: Copper cloth area 

2: Substrate area 

3. The back glue adopts 3m 300LSE, the viscosity is above 300MP, no special instructions, the shape of the back glue is the same as the substrate, the back glue is covered on the back of the substrate;

4. FPC material electrolytic copper, one-sided plate, copper foil for a pair of half-substrate, good flexibility;

5. the product after 180° bending surface crack-free phenomenon, good flexibility;

6. Gold finger surface gold-plated 3" Au", there is no oxidation phenomenon, with copper foil joint, after 180° bending, no crack, non-conduction phenomenon, non-pattern can not electroplating;

7. line and hole exact tolerance range: ± 0.05 mm, shape size tolerance control within 0.1 mm;

8. unlabeled size according to CAD electronic drawings 1:1 to take;

9. not open mold product proofing shape needs to use laser cutting, if using manual cutting, must pay attention to the shape to cut more accurate, open mold product proofing shape needs to use die stamping;

10. non-pattern, need to cut good shape, after sending samples to our company;

11. surface printing, specific content and

Tear your ears

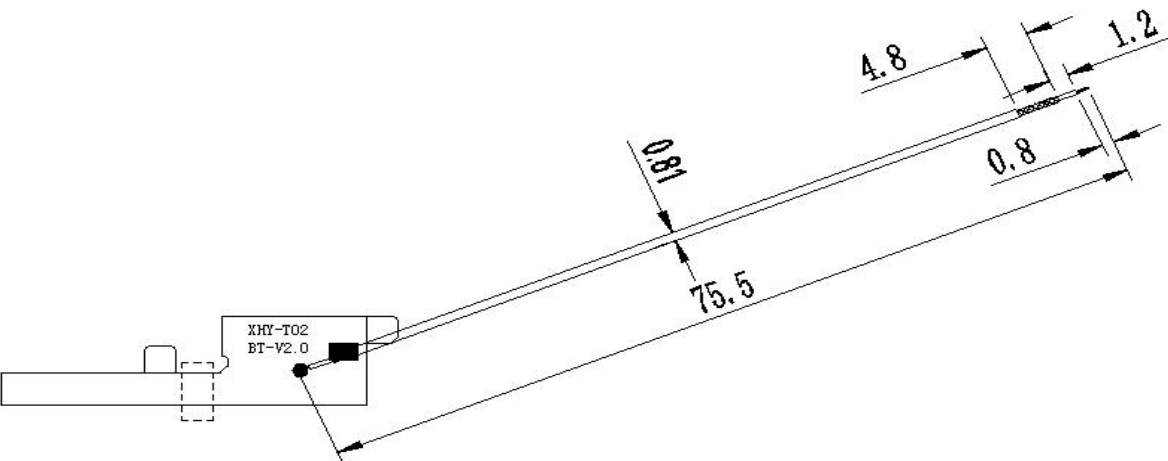
Hand Tear -----

FPC yellow silk screen bright yellow code

Shenzhen Xinhengyang Technology Co., Ltd.

第三角法				Type of section	T02	mm	Page	1 of 1
0~10	±0.10	○	0.02	----				
10~20	±0.12	⊙	0.03	----			ME	LI
20~40	±0.15	⊕	0.02	----	FPC		ZF	LW
40~	±0.20	⊖	0.04	----				
		∠	0.02	----				

请勿实测图版 位置



4.8

1.2

0.8

0.81

75.5

XHY-T02
BT-V2.0

Finished product assembly drawing

TOLERANCE		ANGLE		SIGNATURE	DATE	Shenzhen Xinhengyang Technology Co., Ltd		
LINEAR	>10.0	± 0.13	± 0.5°	DESIGNED	MS+	T02		
MATERIAL	50-100	± 0.08	UNIT: PPH	CHECKED	MS+			
SHEET OF	10-50	± 0.05	SCALE: 1	APPROVED	MS+	DWG NO	REV:	SIZE: A4

Test Equipment & Conditions

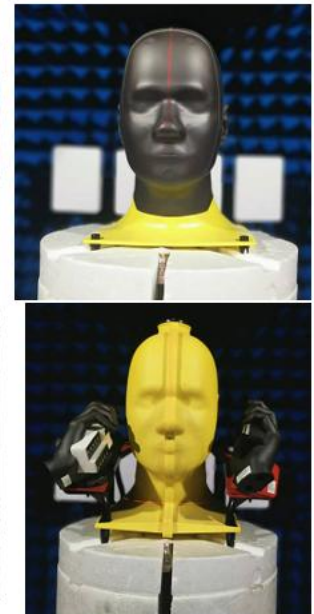
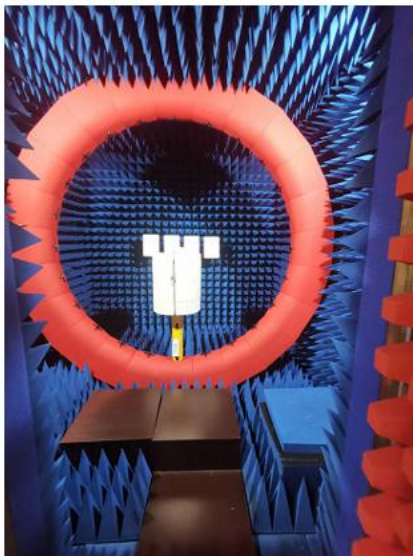
1. NetWork Analyzers:

Keysight E5071B

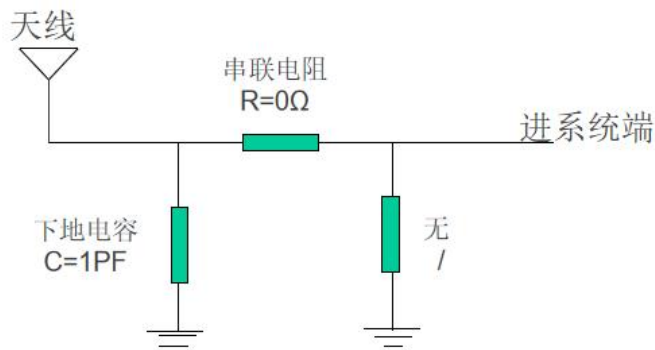
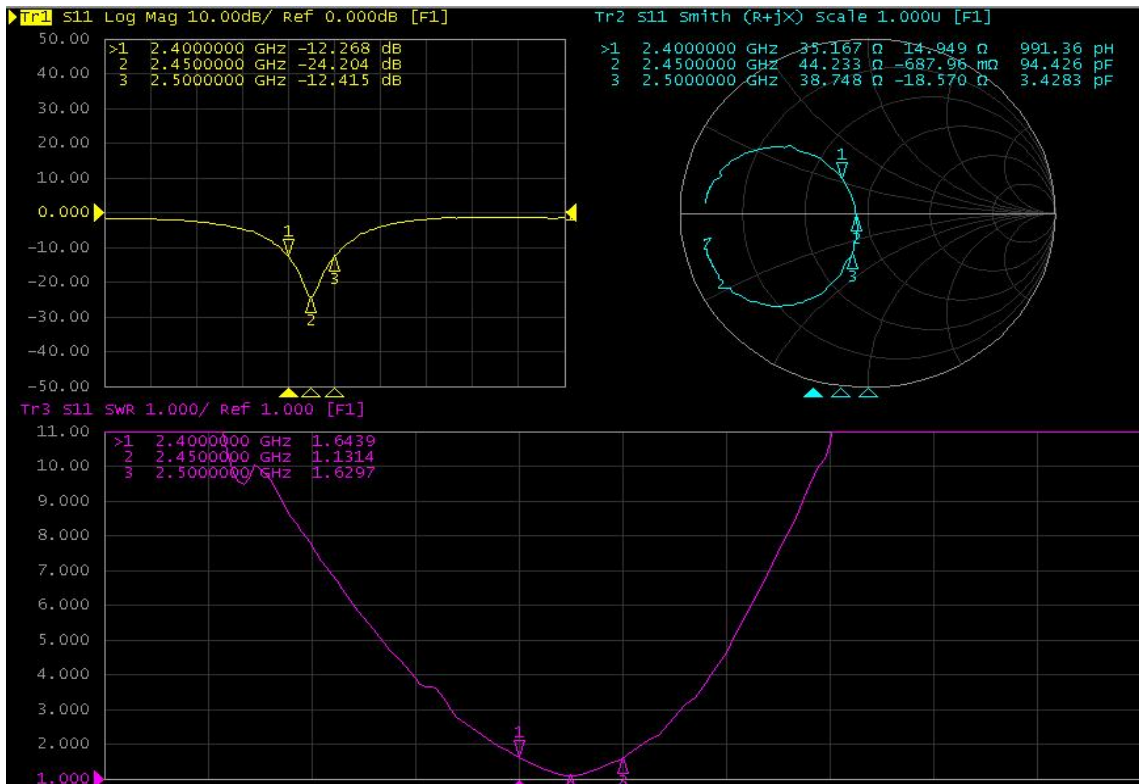
2. Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D Chamber Test System:



Antenna Impedance: S11

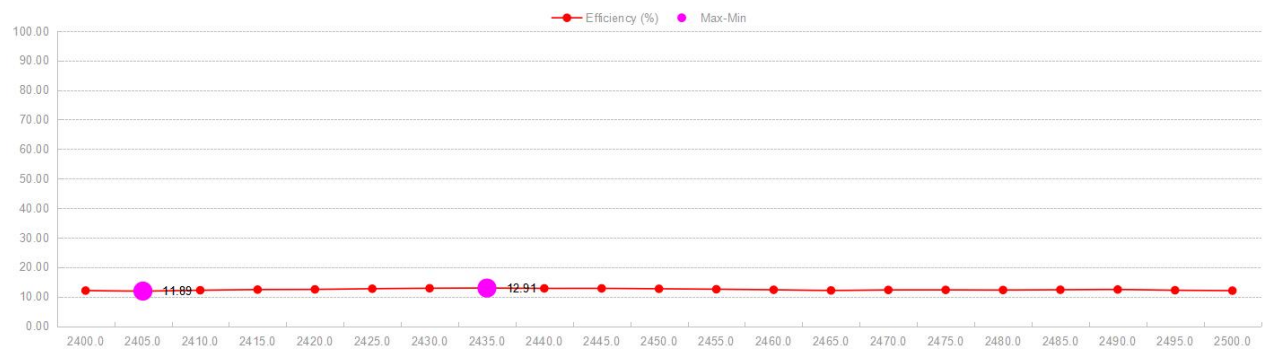
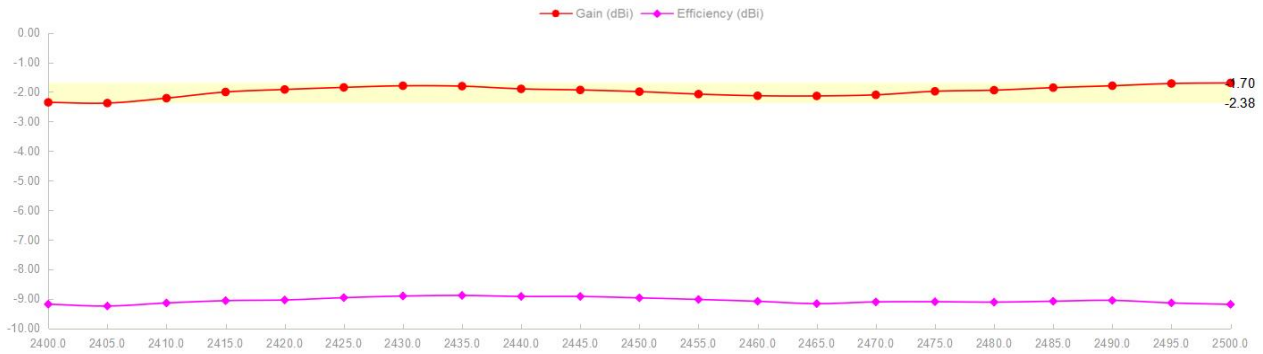


位置	描述	供应商
下地电容	C=1PF	村田
串联电阻	R=0Ω	村田
无	/	/

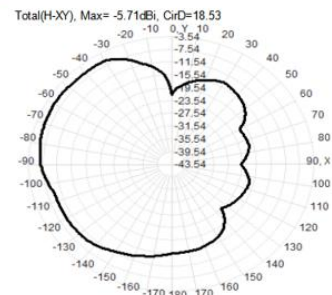
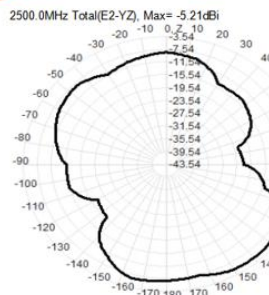
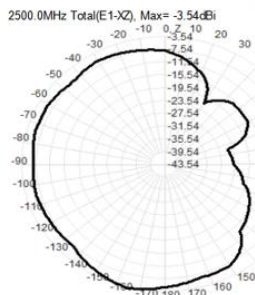
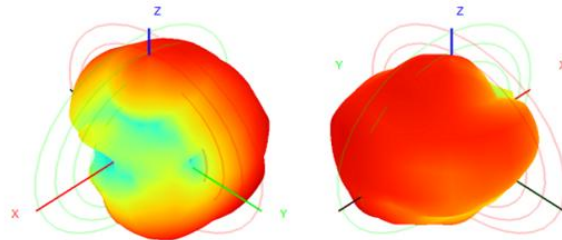
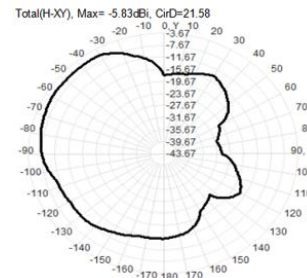
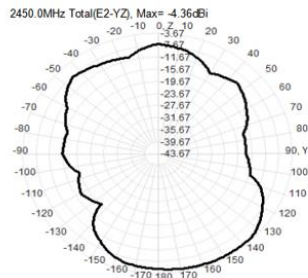
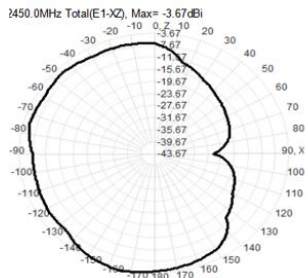
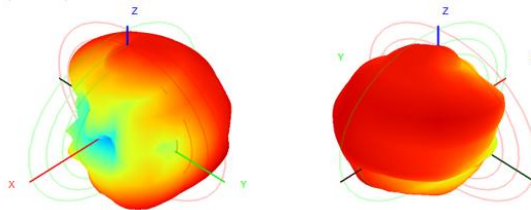
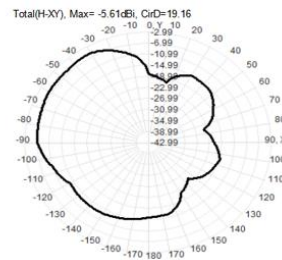
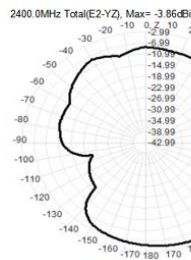
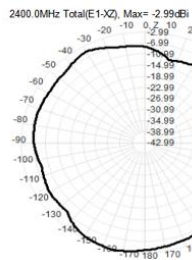
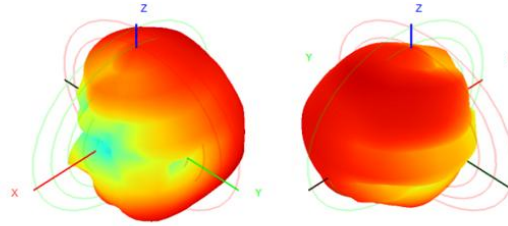


Efficiency & Gain:

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:



Installation method:

