

Antenna Sample Datasheet

customer:	Shanghai Evoiot Intelligent Technology Co., LTD
entry name:	JT60A
Material category:	BT antenna
Antenna Type	Monopole
Antenna Material	FPC
edition:	A5
Date:	2023. 12. 15

Contents

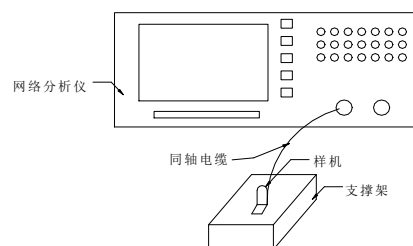
1: Antenna test equipment.....	1
2: Passive test report.....	3
3: Matching circuit.....	5
4: Structural drawing.....	6
5: Antenna diagram.....	7

1: Antenna test equipment

List of meters: Agilent 5071B;

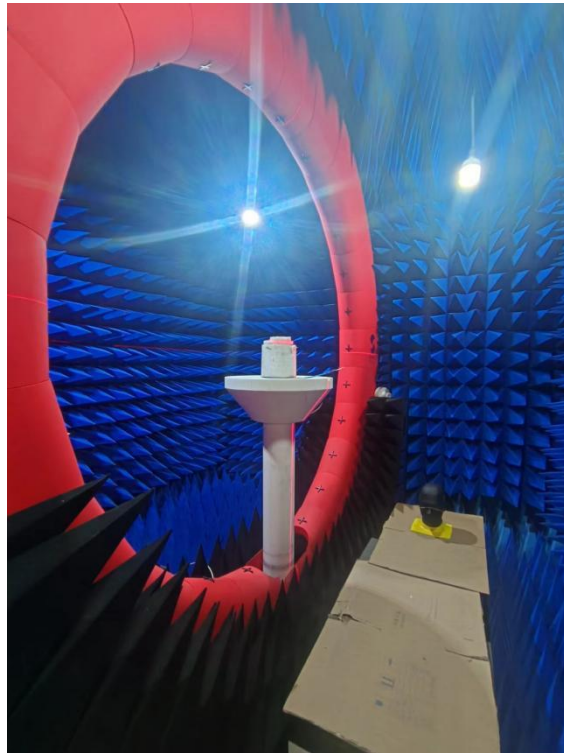


1.1The principle diagram of the ETS anechoic chamber



Picture1.Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



Inside the ETS anechoic chamber

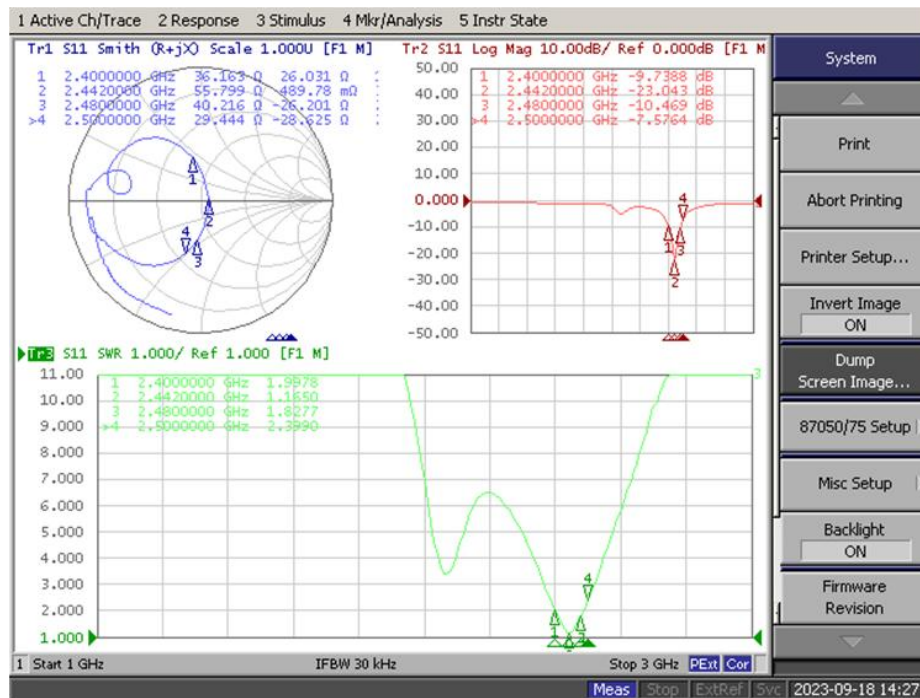


Test Machine

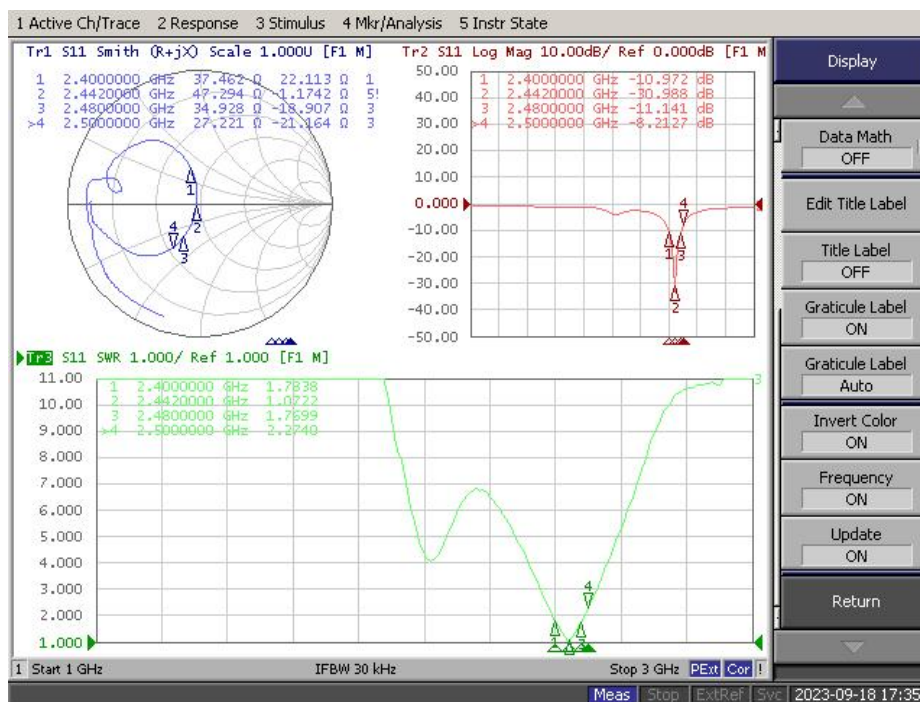
2: Passive test report

2.1: BT antenna S11 parameters

Left:



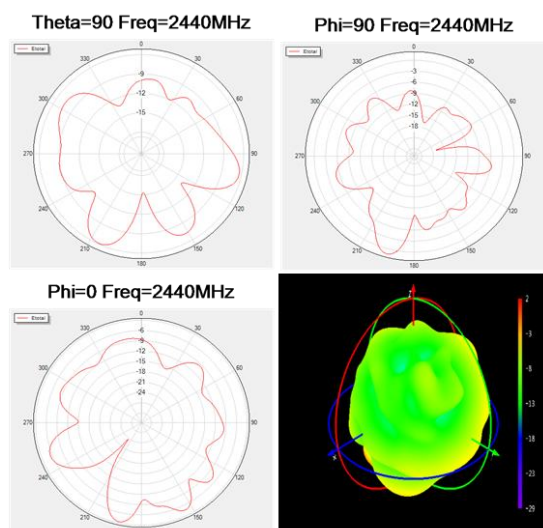
Right:



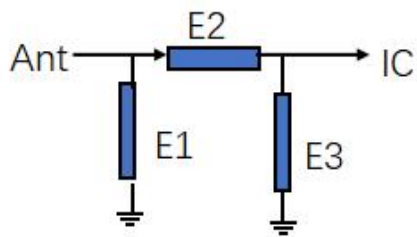
2.2: Passive efficiency of antenna

2400-2480MHz		
Freq(MHz)	Gain(dBi)	Efficiency(%)
	free space	free space
2400	0.24	16.46
2410	0.48	16.99
2420	0.76	17.25
2430	1.04	17.3
2440	1.28	17.15
2450	1.37	17.01
2460	1.22	16.71
2470	0.84	16.27
2480	0.42	15.84

2.3: Passive pattern of BT antenna

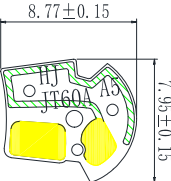
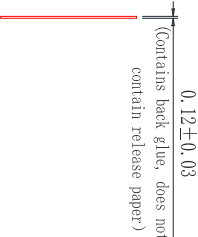
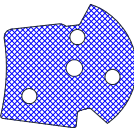


3: Matching circuit



Element	Value
E1	N/A
E2	1.2NH
E3	2.4PF

4: Structural drawing

A		B	C	D	E	F		G
Environmentally friendly RoHS 2.0						Version	Date	Change Description
						A5	2023-12-04	Reduce positioning holes on A3 version
1								
2								
3		Vertical view		End view		Bottom view		
4		NOTES:						
1.		The green part is made of copper; Blank is the base material;						
2.		The yellow part is the gold-plated area; Blue is the adhesive area;						
3.		The die can not hurt the line, and the gold-plated area should be connected with the line;						
4.		Material: FPC single panel [PI (EI)] a pair of half substrate (0.063mm) + adhesive (3M 9471 0.05mm) + surface black ink (Youli) (>0.01mm);						
5.		The back glue is 3M 9471;						
6.		Gold finger surface gold-plated (thickness: ≥1u"), no oxidation phenomenon (salt spray test required);						
7.		After 48±1 hours of salt spray test, there were no corrosion points on the surface and the coating fell off;						
8.		Mark * as the key dimensions, please check according to standard tolerances if not marked;						
9.		Meet our RoHS, Reach, halogen-free requirements.						
Electrical performance:		TOLERANCE TABLE		APPROVED:		PRODUCT NAME: FPC		
1. Test the continuity of the circuit		0~10 ±0.10 ○ 0.02		MAO LU PING		PRODUCT NUMBER: JTB0A		
2. conductivity: 35 50m/(Ω • mm ²)		10~20 ±0.12 ○ 0.03		CHECKED:		CUTTING		
		20~40 ±0.15 ± 0.02		YANG ZHI QIENG		HALF CUTTING PROCESS		
Physical and chemical properties:		40~50 ±0.20 ± 0.04		DRAWING:		VERSION		
1. The golden finger should not have oxidation phenomenon (salt spray test is required)		50~100 ±0.25 ± 0.02		ZHUANG QING HUA		1:1		
2. After 48 ± 1 hour of salt spray test, there are no corrosion points on the surface and the coating is not peeling off.		UNIT: mm				By Graph 200μ		
A		B	C	D	E	F	G	
		HONANT®						
		鸿基无线通信（深圳）有限公司						
		Hongji Wireless Communication (Shenzhen) Co., Ltd						
		Note: This drawing is issued internally by Hongji Wireless Communication (Shenzhen) Co., Ltd						
		No one shall copy, alter or take away from the company without permission.						
6		5	4	3	2	1		

5: Antenna diagram

