

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

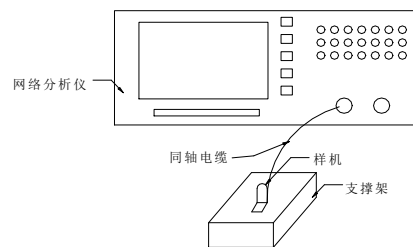
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1: Antenna test equipment

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

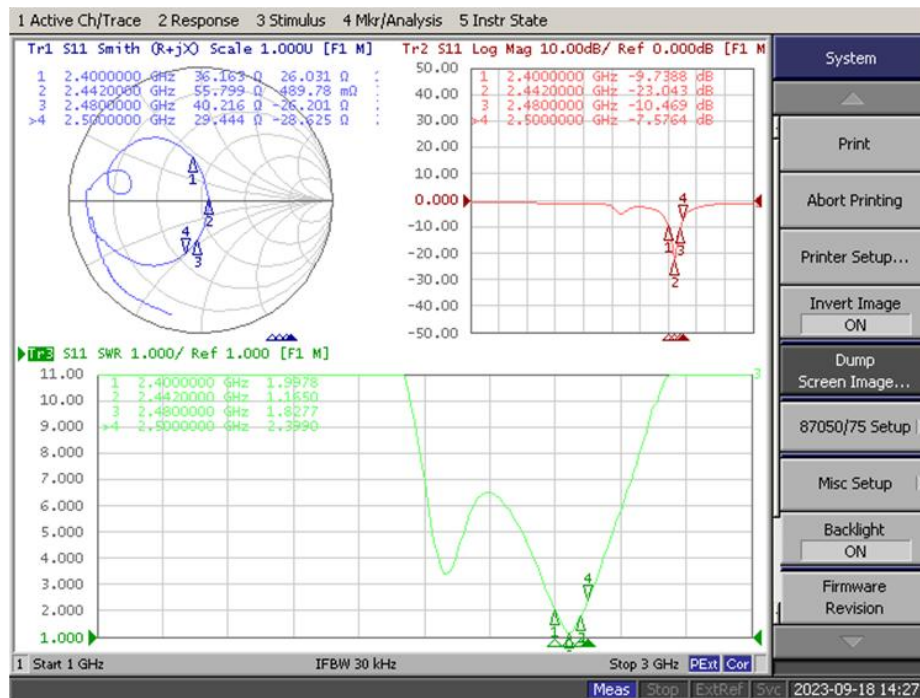


Test Machine

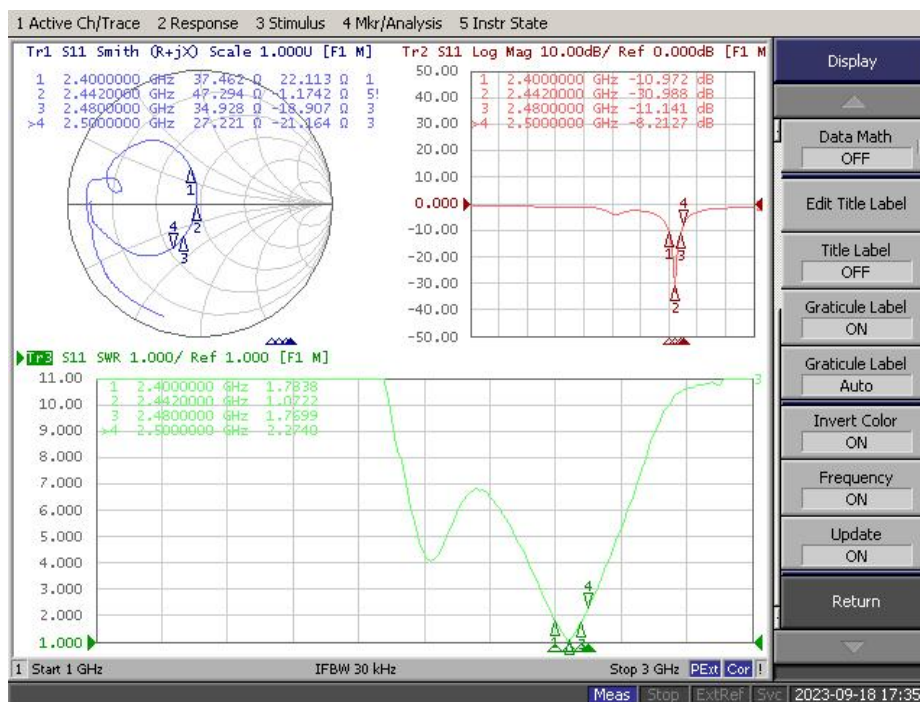
2: Passive test report

2.1: BT antenna S11 parameters

Left:



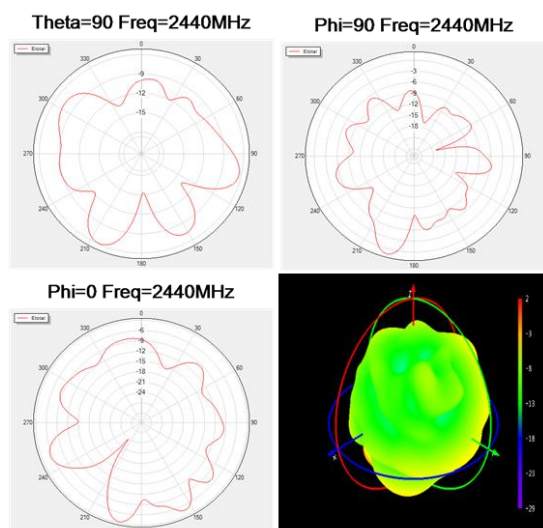
Right:



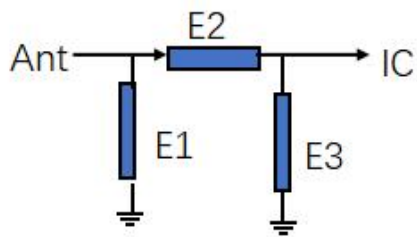
2.2: Passive efficiency of antenna

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

Environmentally friendly RoHS 2.0

Version	Date	Change Description
A5	2023-12-04	Reduce positioning holes on A3 version

8.77±0.15

7.35±0.15

HJ
J160A5

0.12±0.03
(Contains back glue, does not contain release paper)

Vertical view

End view

Bottom view

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 surface should not have dirt, scratches, black spots, breakage and falling off after gold plating;

4. Material: FPC single panel [Pl (ED) 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: ≥1μ"), 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	
		MAO LU PING	CUTTING TECHNOLOGY:	HALF CUTTING PROCESS	PAGE SIZE/PAGE NUMBER
1. Test the continuity of the circuit	0~10 ±0.10 ○ 0.02				
2. Conductivity: 35~58mΩ (Q • mm ²)	10~20 ±0.12 ◎ 0.03				
Physical and chemical properties:	20~40 ±0.15 ⊥ 0.02	DRAWING: YANG ZHI CHENG			
	40~50 ±0.20 ▽ 0.04	ZHUANG QING HUA			
	50~100 ±0.25 ∟ 0.02	VERSION A5			
	UNIT:mm	PROPORTION 1:1 By Graph zoom L/1			

HONANT®

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Hongji Wireless Communication (Shenzhen) Co., Ltd

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5: Antenna diagram

