

Antenna Sample Datasheet

customer:	Dongguan Shiyute Electronics Co., Ltd
entry name:	1122-R-A4
Material category:	BT antenna
Antenna Type	PIFA
Antenna Material	FPC
edition:	A0
Date:	2024. 9. 2

Antenna manufacturer: Hongji Wireless Communication (Shenzhen) Co., LTD

<http://www.honant.com.cn>

Address: 12 / F, West Block B, Building 8, Huaqiang Creative Industry Park,
Sightseeing Road, Guangming District, Shenzhen

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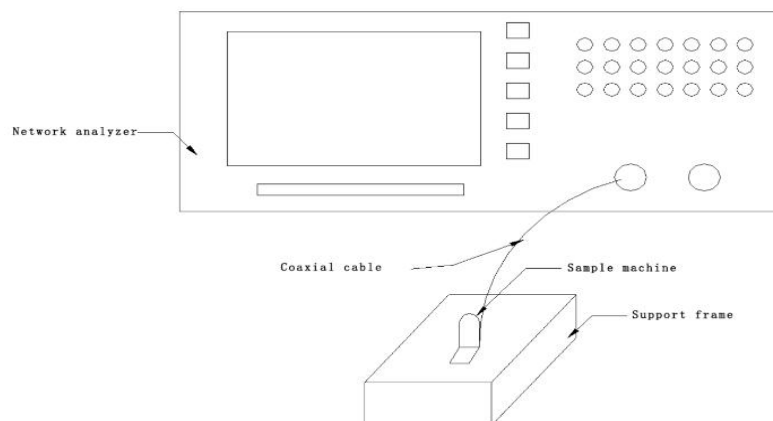
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1: Antenna test equipment

List of meters: Agilent 5071B;

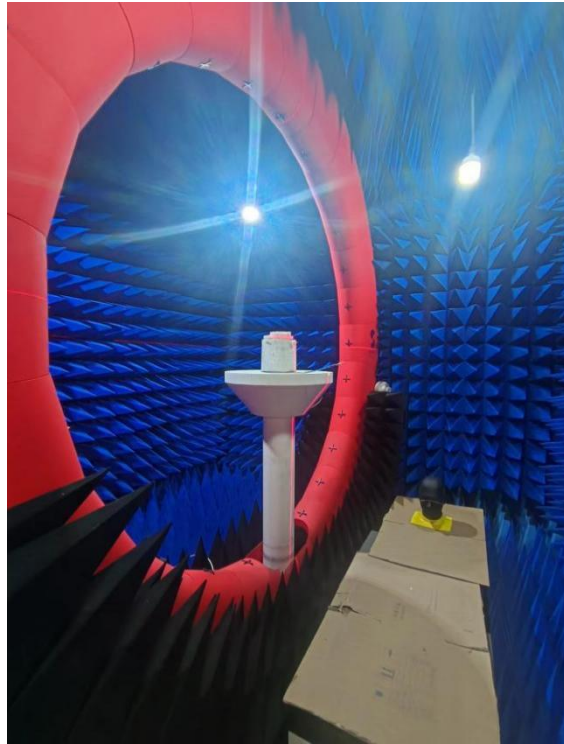


1.1 The principle diagram of the ETS anechoic chamber



Picture1. Antenna static test connection method

1.2 Pictures of the ETS anechoic chamber



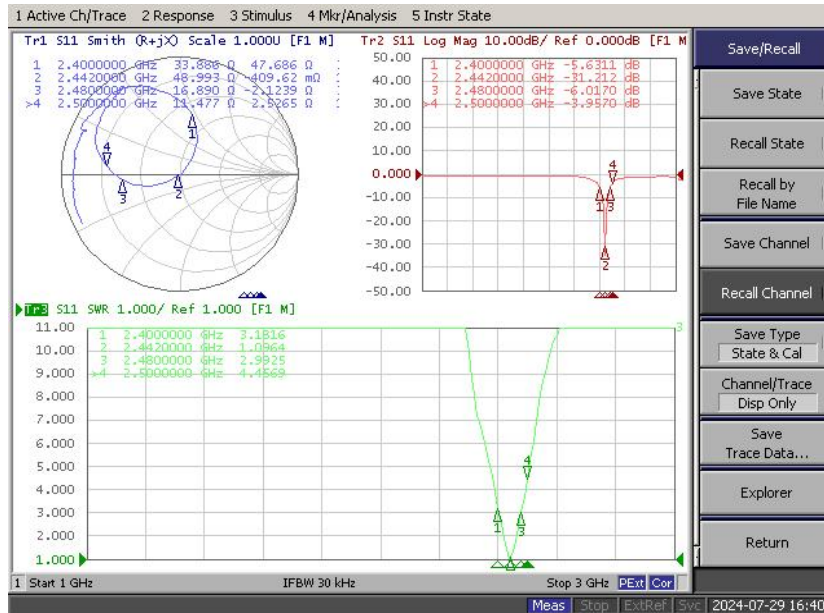
Inside the ETS anechoic chamber



Test Machine

2: Passive test report

2.1: antenna S11 parameters

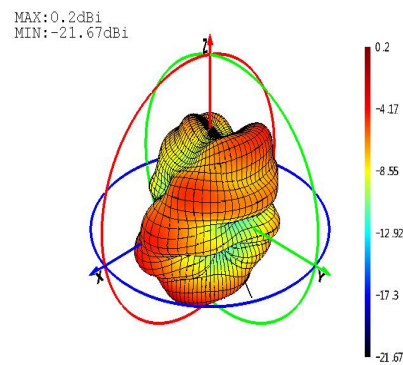
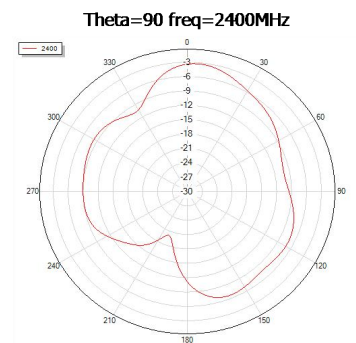
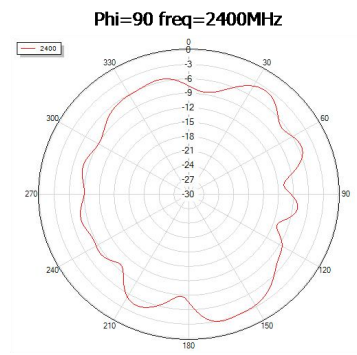
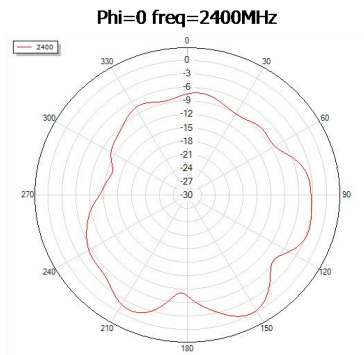


2.2: Passive efficiency of antenna

Freq(MHz)	Gain(dBi)	Efficiency(%)
2400	0.2	18.26
2410	1.14	20.93
2420	2	23.54
2430	2.59	25.56
2440	2.79	25.53
2450	2.55	24.64
2460	1.97	23.43
2470	1.6	22.25
2480	0.62	20

2.3: Passive pattern of BT antenna

2400MHz



3: Structural drawing

Environmentally friendly RoHS 2.0

Version

Date

Change Description

A4

2024-6-25

Antenna change

1

2

3

4

5

6

Vertical view

Side view

Bottom view

1. The green part is made of copper; Blank is the base material;

2. The die can not hurt the line, and the gold-plated area should be connected with the line;

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

4. Material: PC single panel [PI (EP) a pair of half substrate (0.063mm) + adhesive (3M 9471 0.05mm) + Half and half surface covering film (0.0275mm)];

5. The back glue is 3M 9471;

6. Cold finger surface gold-plated (thickness: $\geq 10^{\circ}$), no oxidation phenomenon (salt spray test required); After 48 $\pm$ 1 hours of salt spray test, there were no corrosion points on the surface and the coating fell off;

7. The front screen print is in bright white font. The screen print position and font size are shown in the figure;

8. Mark * as the key dimensions, please check according to standard tolerances if not marked;

9. Meet our RoHS, Reach, halogen-free requirements.

0.10

± 0.10

$\varnothing$

0.02

10~20

± 0.12

$\odot$

$\varnothing 0.03$

20~40

± 0.15

$\perp$

0.02

40~50

± 0.20

∇

0.04

50~100

± 0.25

∇

0.02

UNIT:mm

APPROVED:

MAO DU PING

PRODUCT NAME:

PCF

PRODUCT NUMBER:

HJ-1122-R-A4

CUTTING

TECHNOLOGY:

HALF CUTTING PROCESS

VERSION

A4

PROPORTION

1:1

PAGE SIZE

PAGE NUMBER

1/1

HONGJI WIRELESS COMMUNICATION (SHENZHEN) CO., LTD

HONGJI Wireless Communication (Shenzhen) Co., Ltd

Notes: This drawing is issued internally by Shenzhen Hongji Industrial Co., Ltd

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4: Antenna diagram

