

ZIDASV 深圳市正大信维通讯设备有限公司

Shenzhen Zhengdaxinwei Communication Equipment Co., Ltd

产品承认书 APPROVAL

客 户 浙江鸿泉电子科技有限公司
CUSTOMER: Zhejiang hongquan electronic technology co., ltd

品 名 Bluetooth天线
DESCRIPTION: Bluetooth Antenna

型 号 AT8010-T2R9HAAT/2W/50Ω/-40℃~+85℃
MODEL NO: AT8010-T2R9HAAT/2W/50Ω/-40℃~+85℃

客 户 料 号 X5229XXX02
CUS PART NO:

日 期 2023.10.11
D A T E:

正大信维呈样签章

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT
李倩楠	杨东东	丁志强

客户承认签章

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT

Manufacturer's name: Shenzhen Zhengda Xinwei Communication Equipment Co., LTD

The company address: No.486, Zhangbei Road, Zhangbei Community, Longcheng Street, Longgang District, Shenzhen

The company web site: www.zdxwtx.com Contact phone number: 0755-28839286

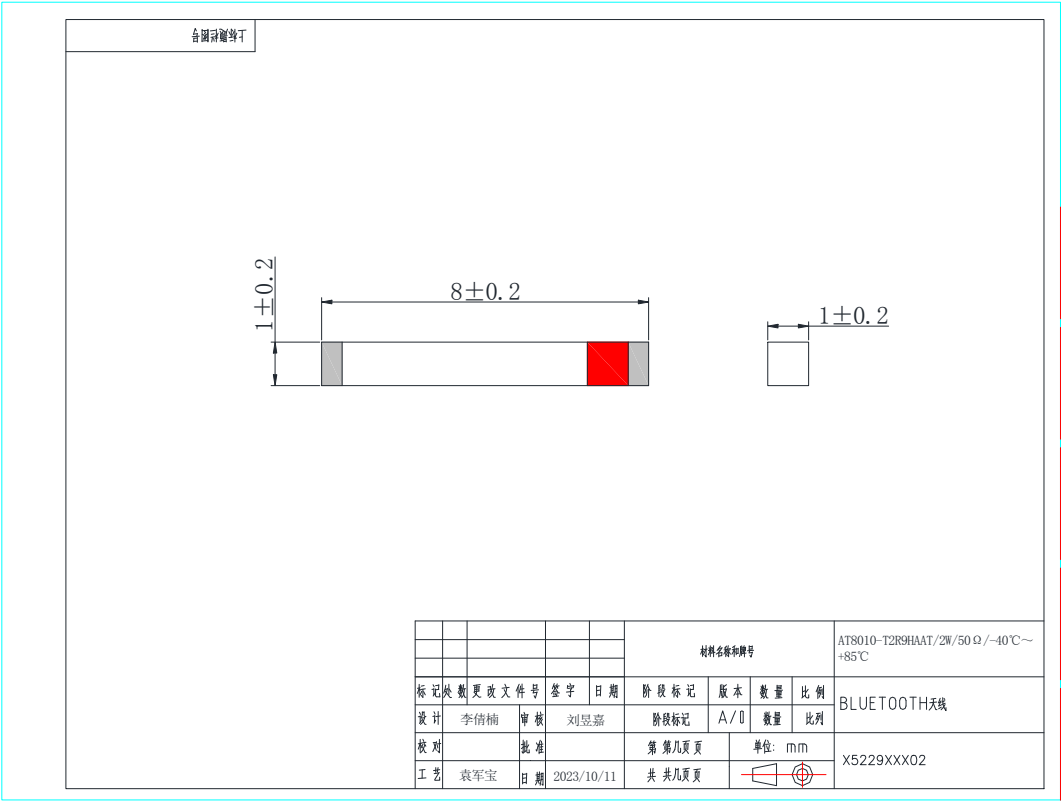
fax: 0755-89909291

email: yangwenjing@zidasv.net

Description Record

[illegible]

1. Product size



標記	處數	更改	簽字	日期	版本
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標記	處數	更改	簽字	日期	版本
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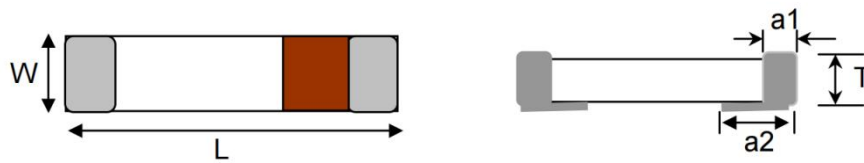
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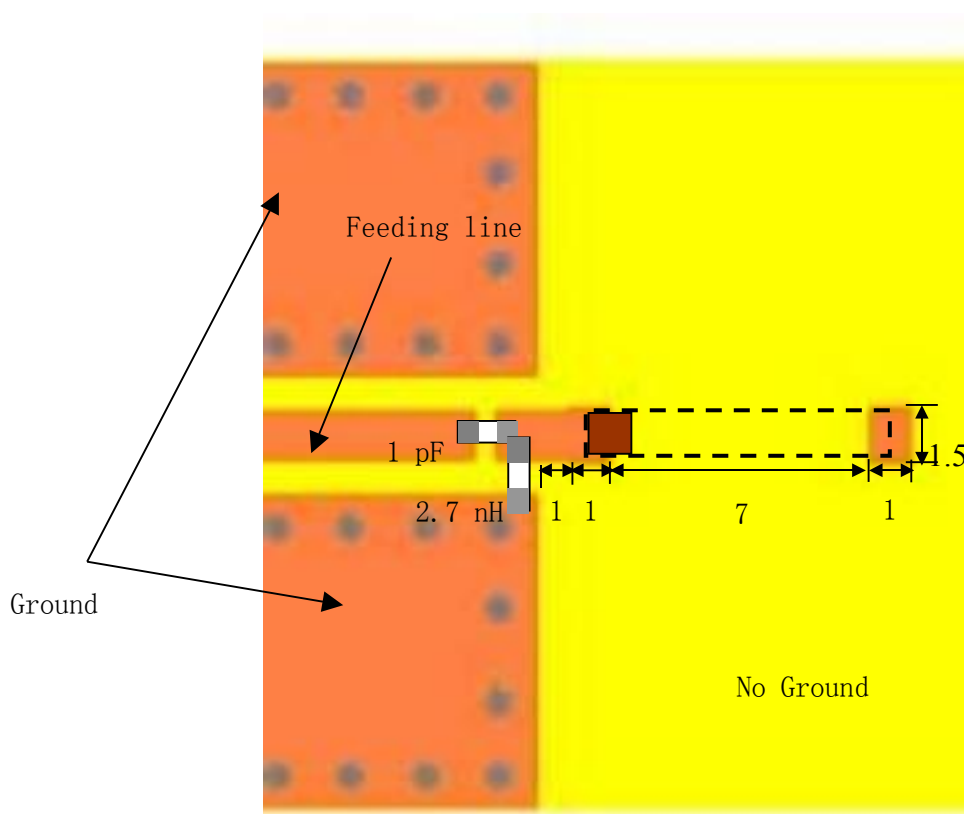
2.Dimensions and Recommended PC Board Pattern

Unit : mm



Mark	L	W	T	a1	a2
Dimensions	8.0 ± 0.2	1.0 ± 0.2	1.0 ± 0.2	0.5 ± 0.2	1.0 ± 0.2

❖ With Matching Circuits (Unit in mm)

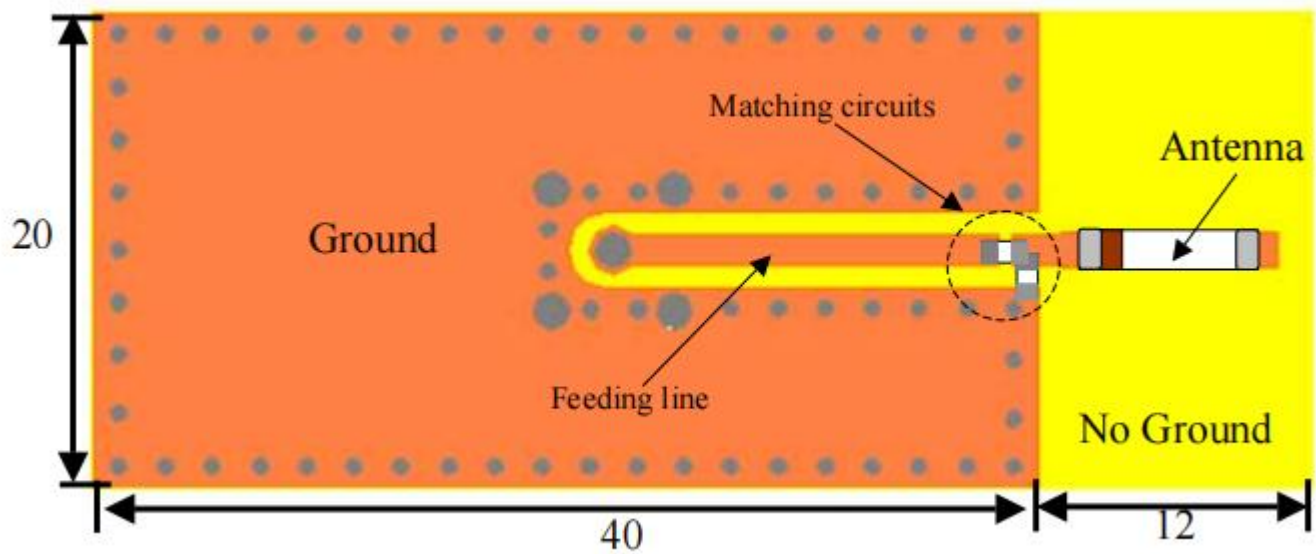


(Matching circuit and component values will be different, depending on PCB layout)

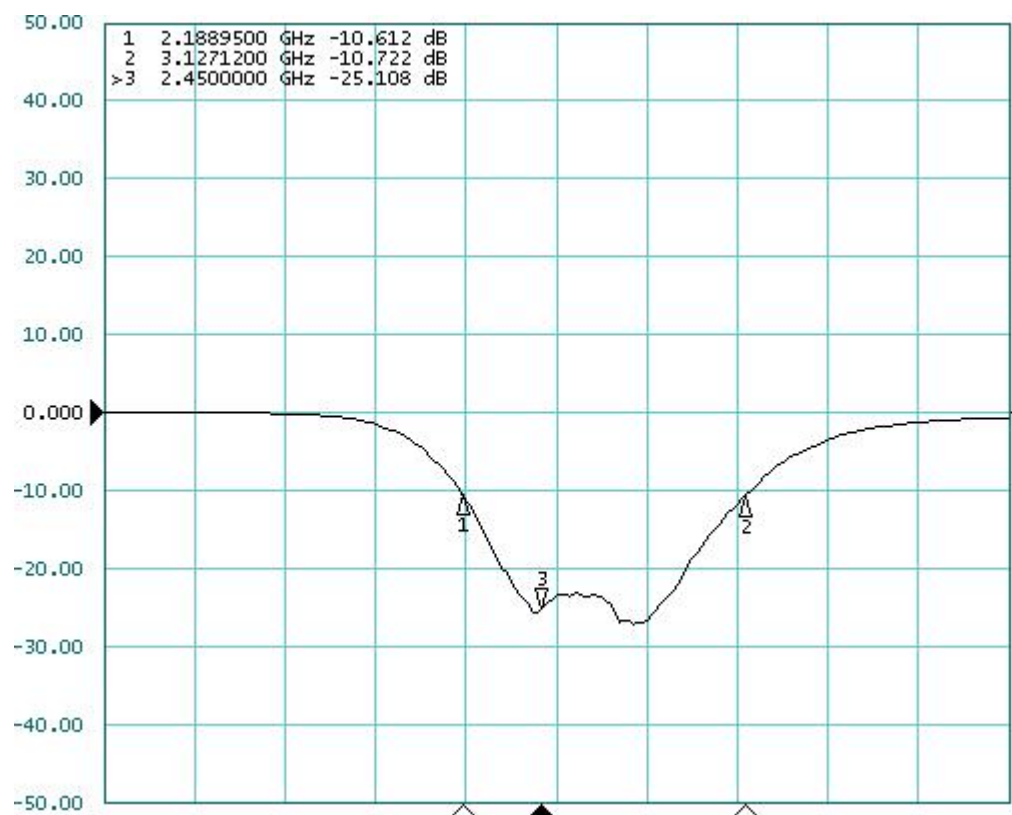
*Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

3. Typical Electrical Characteristics (T=25°C)

❖ Test Board (Unit in mm)

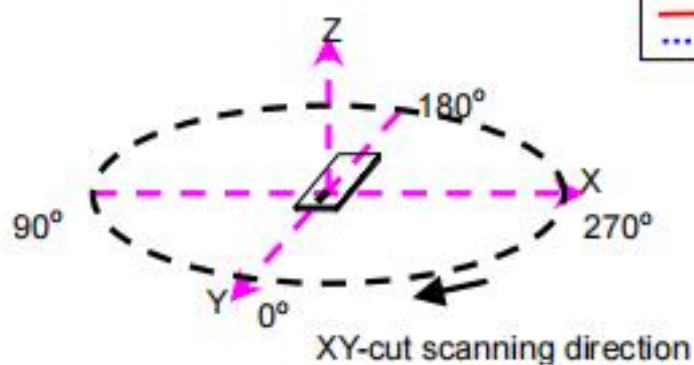


Return Loss / With Matching Circuits

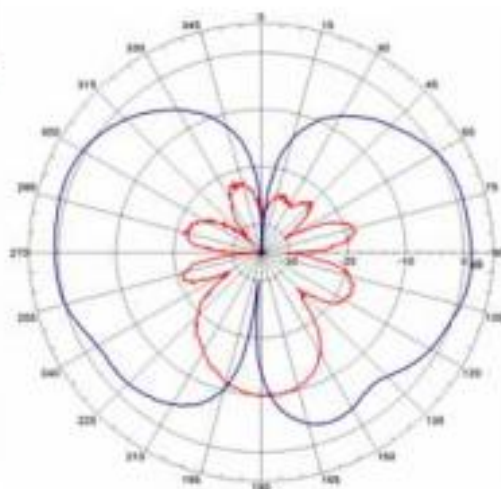


❖ Radiation Patterns

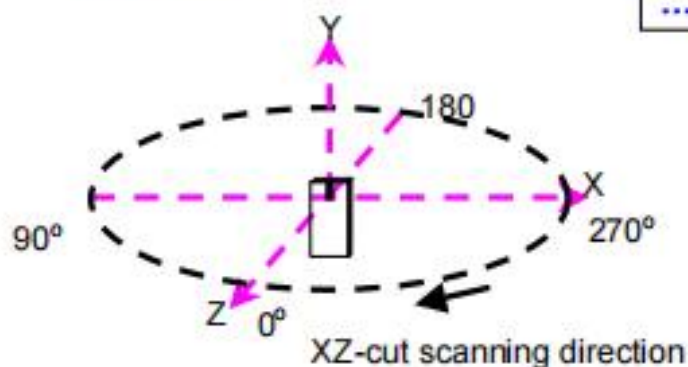
XY-V/XY-H



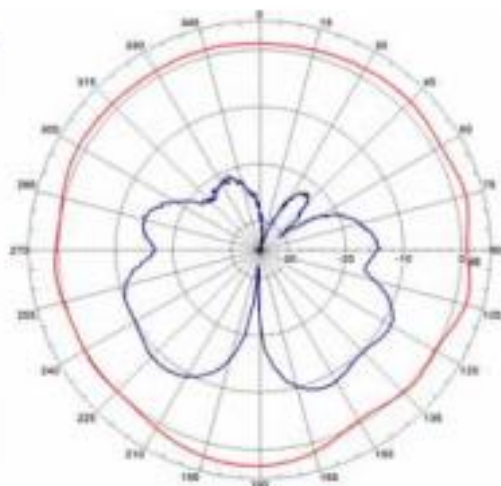
XY cut @2.45GHz
 — Vertical
 Horizontal



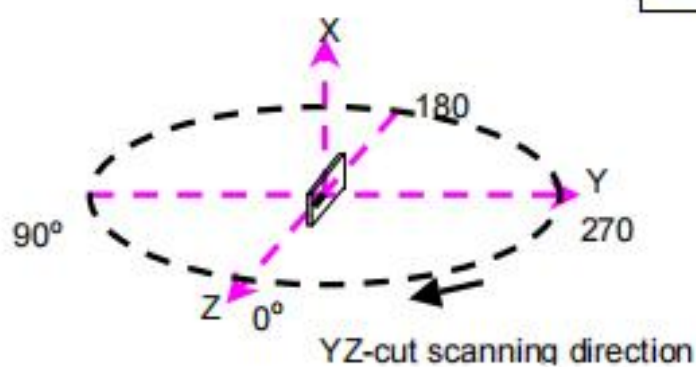
XZ-V/XZ-H



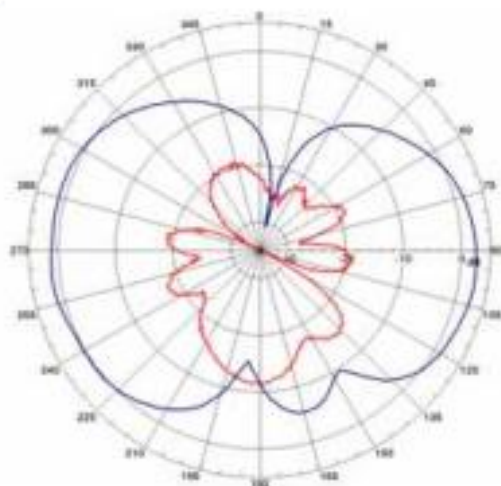
XZ cut @2.45GHz
 — Vertical
 Horizontal



YZ-V/YZ-H



YZ cut @2.45GHz
 — Vertical
 Horizontal



4.Electrical Specification :

型号	Bluetooth天线	Model	Bluetooth Antenna
主要技术参数		Main Technical Specifications	
频率范围（MHz）	2400/2500MHz	Frequency Range (MHz)	2400/2500MHz
增益（dBi）	2.86	Gain (dBi)	2.86
输入阻抗（Ω）	50	Input Impedance (Ω)	50
极化形式	线极化	Polarization Type	linear
接口形式	N/A	Connector Type	N/A
工作湿度	20-80	Working Humidity	20-80
工作温度	-40℃~+85℃	Working Temperature	-40℃~+85℃
储存温度	-40℃~+90℃	Storage Temperature	-40℃~+90℃

4-1. Efficiency and Gain

- 量测仪器: Microwave darkroom, network analyzer, standard antenna

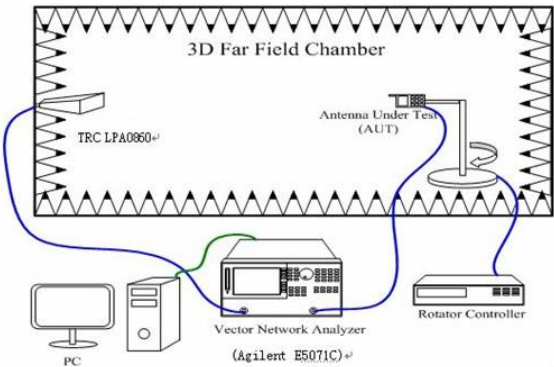


图 1. 微波暗室内仪器设置

$$G_{AUT} = G_{stand} + P_{AUT} - P_{stand}$$

G_{AUT} : Gain of AUT

G_{stand} : Gain of Standard Gain Antenna

P_{AUT} : Measured Power of AUT

P_{stand} : Measured Power of Standard Gain Antenna

4-1-1 Efficiency and Gain

Frequency(MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	43.05	2.67
2450	43.02	2.86
2500	43.98	2.78