

Antenna sample admission letter

The Main Antenna Sample Confirmation

Customer Name			
Project Name	The ANT wire antenna	Date	2023-2-23
Material Number	2.4G antenna (white)	Notes	Electronic wire
Frequency Range	Bluetooth 2.4G (2400 MHz-2500 MHz)		
Designed By	RF Engineer	Structural Engineer	
Checked By	Engineering Manager		
Customer Confirmation <i>Client's Approval</i>			

design unit:

Address: Chenghai, Guangdong, China

1 The wire internal material

main material	range of application	remarks
Clear PVC-adhesive material	Outside of the wire is used	environmental protection
copper wire	Lead conductor copper diameter of 0.14	environmental protection
Environmental tin	The wire is covered with tin	environmental protection

2 Product performance

Specifications and dimensions

name of a part	scope of application	wire length	Wire color	surface
2.4G antenna (white)	The wire on the board	35MM	white	No surface damage, scratch Traces, oil stains and other defects

3 Wire performance

order number	project	standard
1	withstand voltage	60V
2	Current resistance	1500MA
3	contact resistance	30m Q MAX
4	insulation resistance	1000m Q MIX
5	pulling	0.9 Kg
6	temperature resistance	80 Degrees

4. Reliability test

order number	project	standard	test method
1	Excluding 16P and ROHS	The 16 components were less than 0.1%	Third-party authoritative testing agency (such as: SGS)

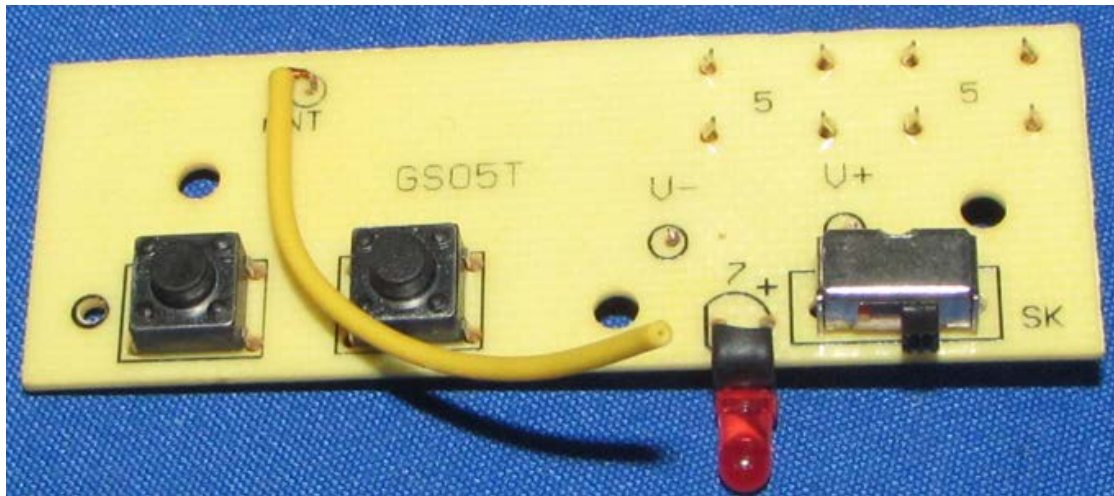
5 The shelf life

6 months after the delivery

6 Notes for use

Note: The temperature should not exceed 80°C, and the current should not be above 1.5A.

7 Illustration



Note: 2.4G antenna specification is 7 core 0.14 copper diameter bare copper wire outer wire diameter 1.3MM wire, white, length of 35MM, wire head peeling 3MM tin. Meet the environmental protection standards: EU EN 71 (19E), ROHS, PAHS, 6P ~ 16P, Europe and America CPSIA、HR 4040.

8 Appendix

Product Specification

A .Electrical Characteristics

Frequency 2400MHz ~2500MHz

VSWR <3.0

Efficiency >30%

Impedance 50 Ohm

Polarization Line

Gain 2DBi

B .Material & Mechanical Characteristics

Material of Radiator Cu

Cable Type 1.0 19P in white

Connector Type : NO

D imension

C .Environmental

Operation Temperature - 30 °C ~ + 80 °C

Storage Temperature - 30 °C ~ + 85 °C

Test Equipment & Conditions

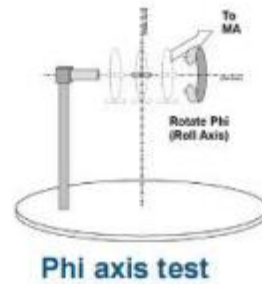
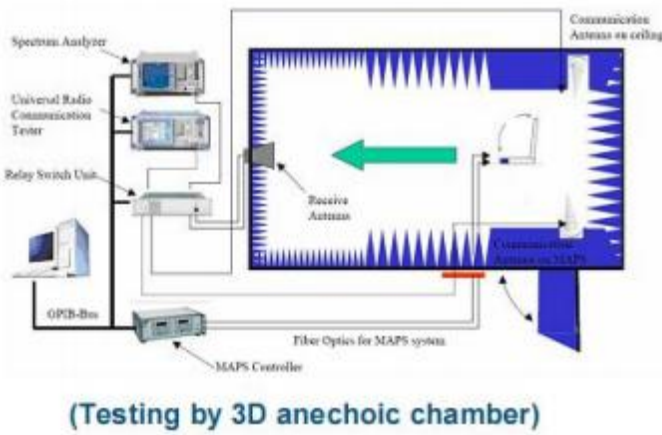
1 . Network Analyzers :

Agilent 8753D 5071B

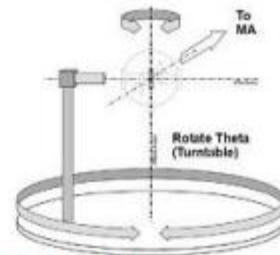
2 . Communications Test Set :

Agilent E 5515C

3 . 3D Chamber Test System Efficiency & Gain



Phi axis test

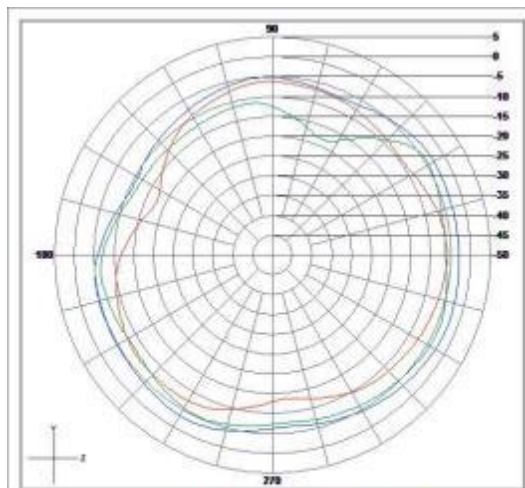


Theta axis test

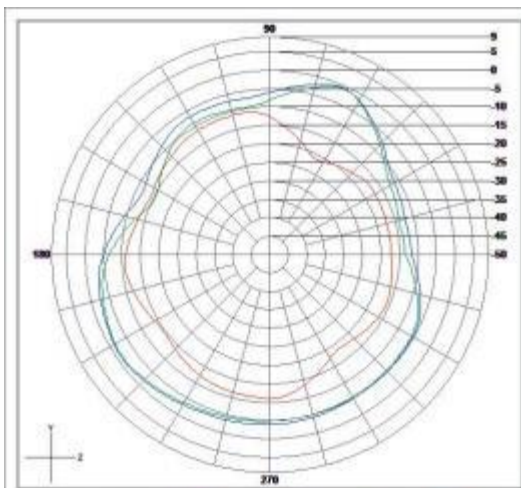
Efficiency & Gain

2.40 2.00
 .4402 1.11
 2.48 1.30

Radiation Pattern



	Vertical	Horizontal	Total
Avg. Gain	-8.4	-6.99	-4.63
Peak Gain	-5.48	-3.77	-2.17



	Vertical	Horizontal	Total
Avg. Gain	-13.34	-5.06	-4.46
Peak Gain	-10.3	0.09	0.12

