Electronic connection wire

Product specification

Model: 2.4G antenna (White)

Date: 2023/02/23

1. Wire interior material

main material	serviceable range	remark
Transparent PVC compound	Wires are used outside	environmental protection
copper wire	Wire conductor copper diameter 0.1	environmental protection
Environmentally friendly tin	Stripping and tin plating of conductor	environmental protection

2. product performance

Specifications and dimensions

main material	area of application	line supervisor	Wire color	exterior
2.4G antenna (white)	Conductor on circuit board	35mm	white	No damage, scratches, oil stains and other defects on the surface.

3. Wire performance

serial number	project	standard
1	pressure proof	60V
2	Withstand current	1500MA
3	contact resistance	30mΩ MAX
4	insulance	1000mΩ MIX
5	pulling force	0.9 kg
6	Temperature tolerance	80℃

4. reliability testing

serial number	project	standard	test method
1	Excluding 16P and ROHS.	Sixteen components are less than 0.1%	Third-party authoritative testing organization

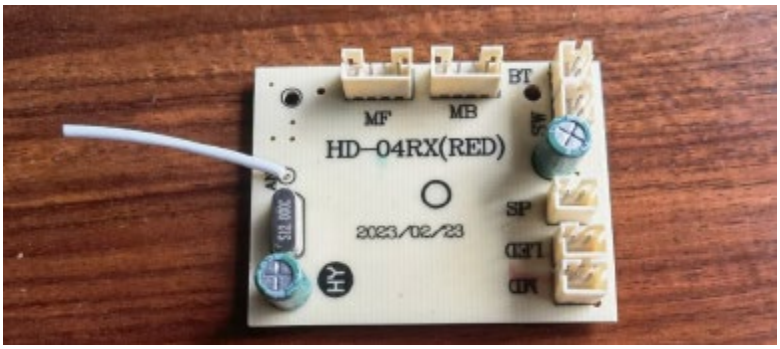
5. shelf life

6 months after leaving the factory

6. Precautions for use

Note: The temperature should not exceed 80℃ and the current should not be higher than 1.5A.

7. diagrammatic presentation



Remarks: The specification of 2.4G antenna is 17-core bare copper wire with an outer diameter of 1.6MM, white, with a length of 35MM, and the end of the wire is stripped 3MM and tinned. Meet the environmental protection standards: EU EN71(19E), ROHS, PAHS, 6P~16P, Europe and America CPSIA, HR4040.

8. appendix

Product Specification

A. Electrical Characteristics
Frequency 2400MHz ~2500MHz
VSWR <3.0
Efficiency >30%
Impedance 50 Ohm
Polarization Line
Gain 0DBi
B. Material & Mechanical Characteristics
Material of Radiator Cu
Cable Type 1.0 19P white
Connector Type : NO
Dimension
C. Environmental
Operation Temperature - 30 °C ~ + 80 °C
Storage Temperature - 30 °C ~ + 85 °C

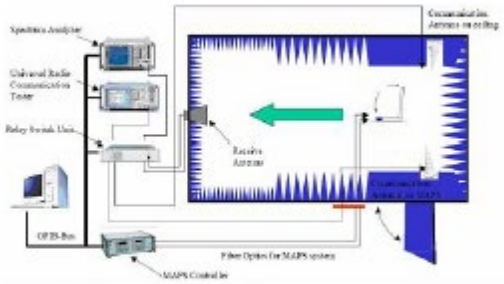
Test Equipment & Conditions

1． Network Analyzers :
Agilent 8753D 5071B
2． Communications Test Set:

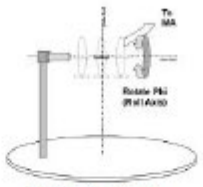
Agilent E5515C

3 . 3D Chamber Test System

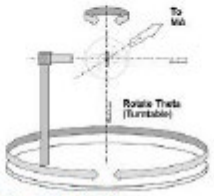
Effiency &Gain



(Testing by 3D anechoic chamber)



Phi axis test

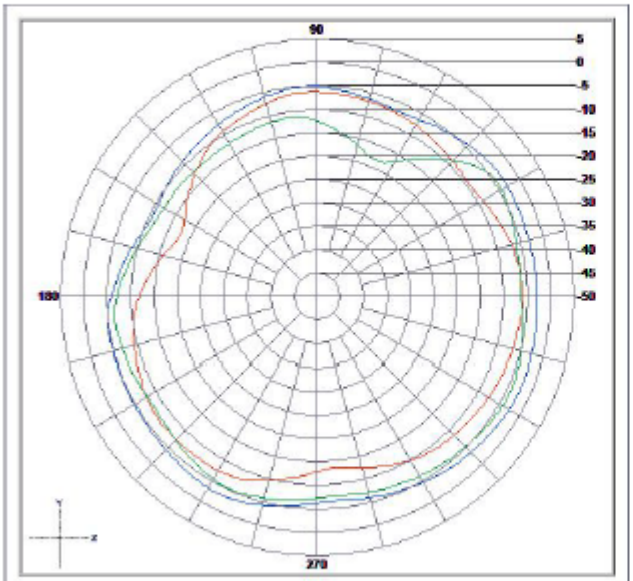


Theta axis test

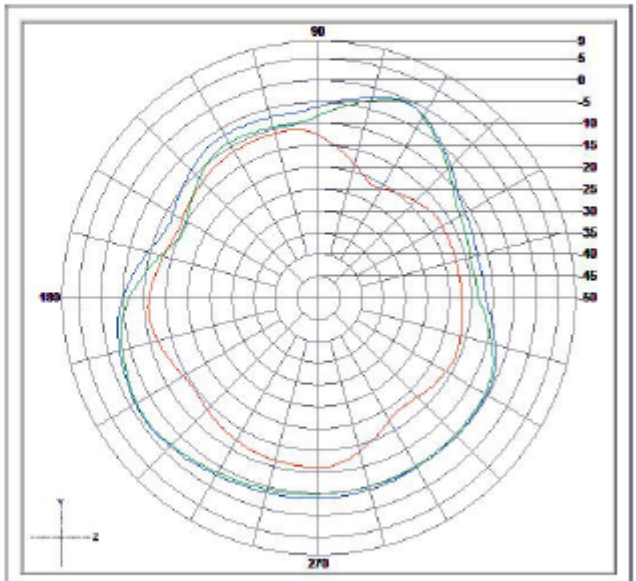
Effiency &Gain

2.40 -0.00
2.440 -0.11
2.48 -0.13

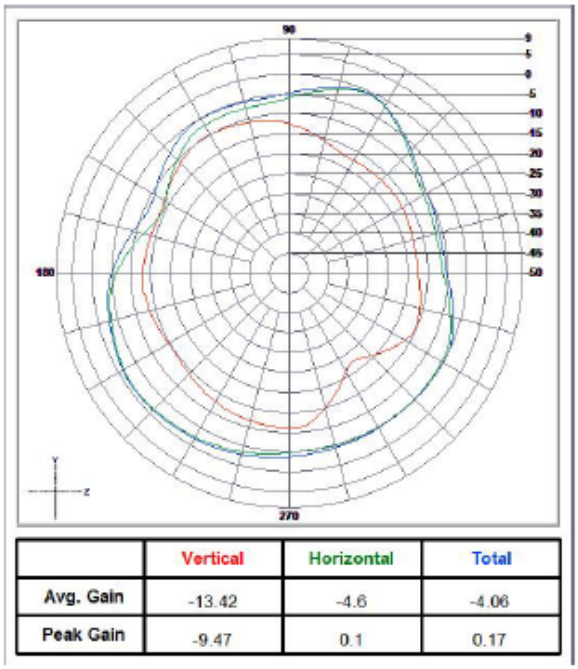
Radiation Pattern:



	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



	Vertical	Horizontal	Total
Avg. Gain	-13.42	-4.6	-4.06
Peak Gain	-9.47	0.1	0.17