

ShenZhen City WINWAVE Technology CO.,LTD.

SPECIFICATION FOR APPROVED

CUSTOMER: _____

PRODUCTS: _____ FPC Antenna _____

PART NO: _____ BTW98-FPC Antenna _____

Spec. : _____ YL-BTW98-V2 _____

Data: _____ 2022. 8. 10 _____

SUPPLIER		
PREPARED BY	CHECKED BY	APPROVED BY

CUSTOMER		
ACCEPTED BY	CHECKED BY	APPROVED BY

REMARK:Please send us one(or copy)of this approval with stamp after accepting,other copies filed by the customer.

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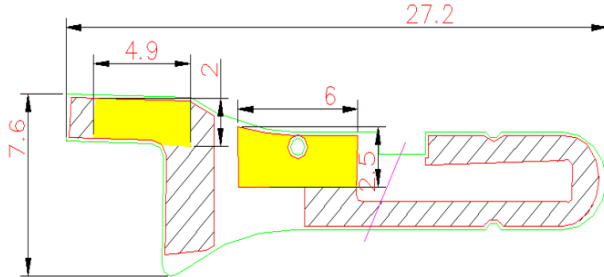
Revision history

VERSIONS	DATE	STATE
V1	2022-01-10	First Version
V2	2022-03-21	Second Version

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1. Project Information

1.1. Appearance and Dimensions

Test point	Specifications	Test result
Overall dimensions	27.2mm*7.6mm	OK
Golden finger	4.9*2mm, 6*2.5mm	OK
Drawing		

Inspection items		Inspection results
Material specification	25um copper+12.5um glue+12.5umPI	OK
Material	Half and half (Electrolytic copper)	OK
Material	gummed paper (3M300LSE)	OK
Electroplate	Gold plating	OK
Appearance	Surface: matte black	OK

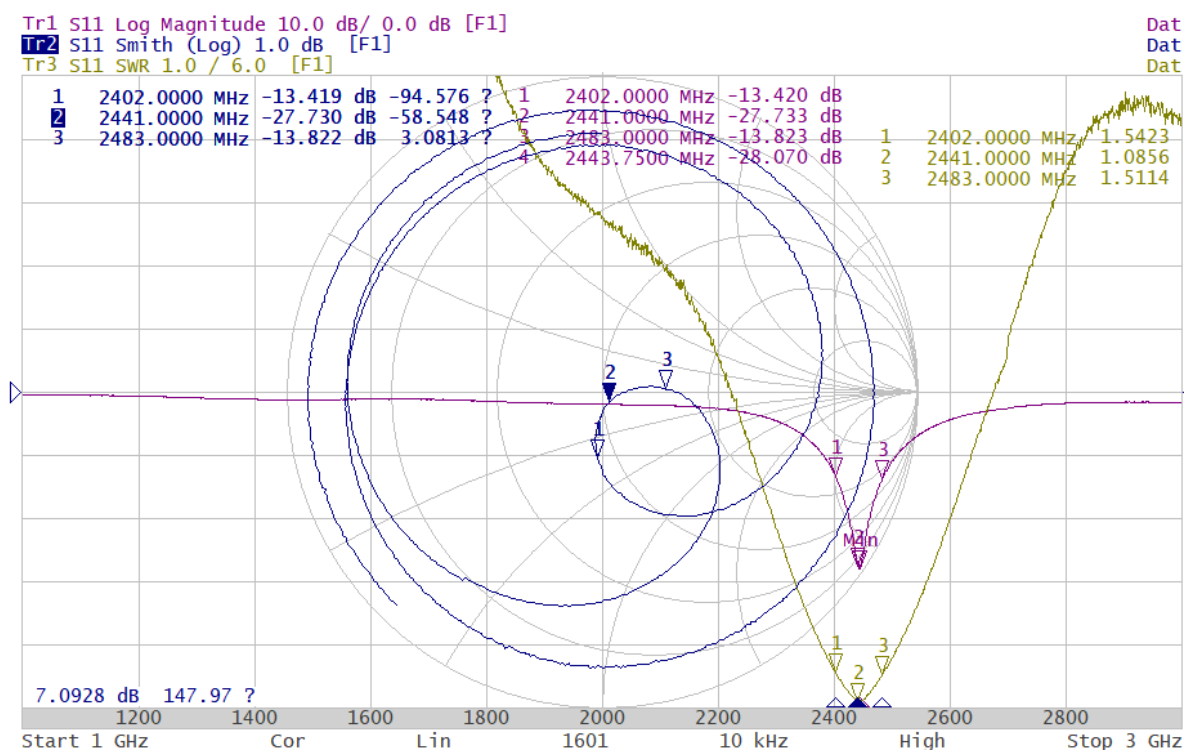
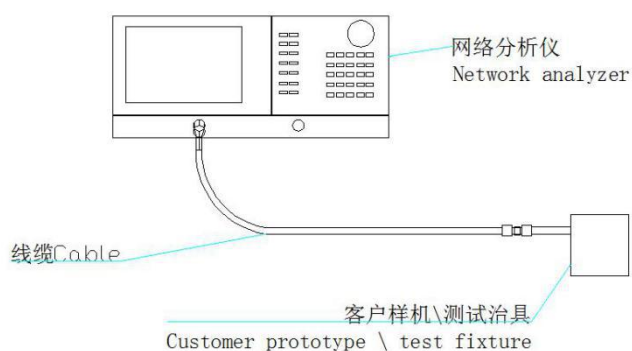
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2. Electrical Characteristics

2.1. Test Environment Conditions

Temperature	Ordinary Temperature (5 to 35℃)
Humidity	Ordinary Humidity (25 to 85% RH)

2.2. Measurement method

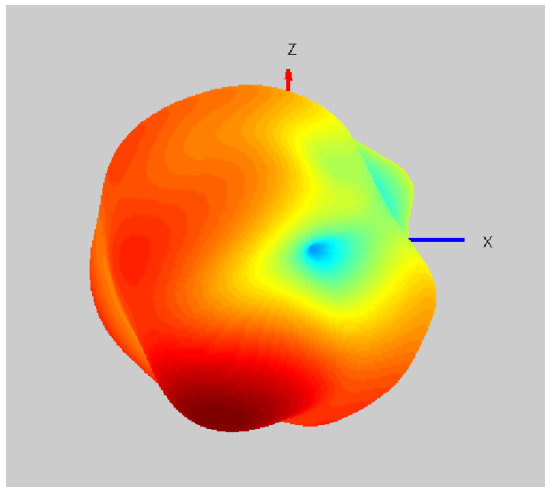




Age Group	Percentage
18-24	10%
25-34	20%
35-44	25%
45-54	20%
55-64	15%
65-74	10%
75-84	5%
85+	5%

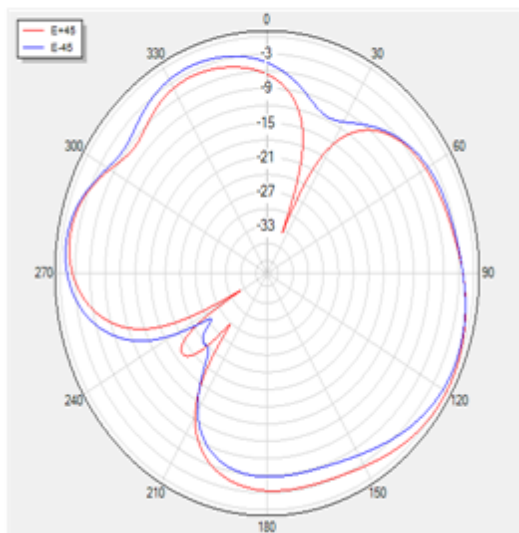
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2.3.3. 3D Radiation Drawing



2.3.4. directional drawing of horizontal plane

H Theta=90 freq=2400MHz

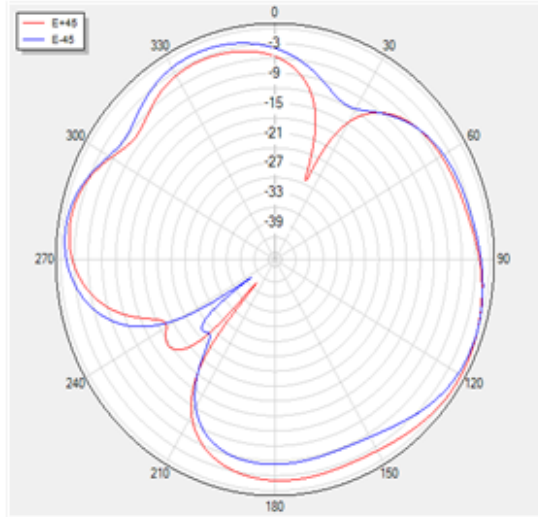


H Theta=0 freq=2400MHz

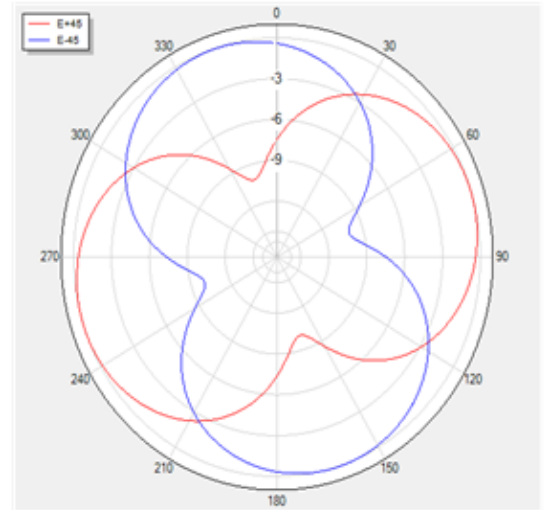


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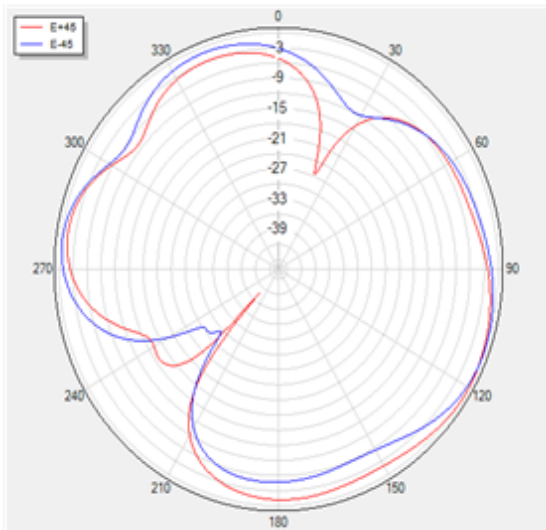
H Theta=90 freq=2450MHz



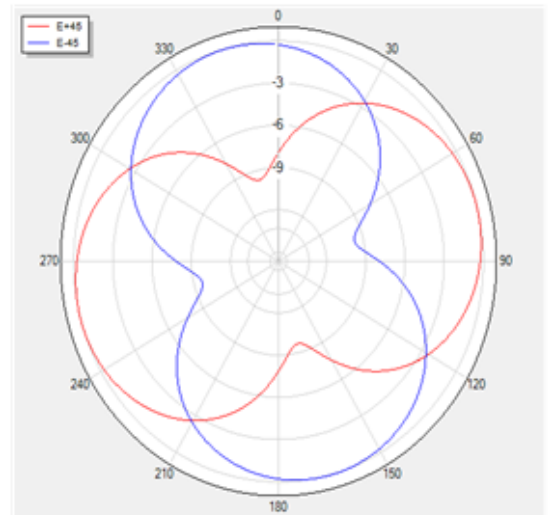
H Theta=0 freq=2450MHz



H Theta=90 freq=2480MHz



H Theta=0 freq=2480MHz



3. Notes

- 1、Pay attention not to be too close to the metal during installation to avoid affecting the antenna performance.
- 2、This antenna is only suitable for this model, and the position of the antenna cannot be changed.

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4. Reliability test

Item	Test methods and conditions	Specifications and requirements
Storage conditions	Temperature, humidity and air pressure are as follows: 1、Temperature: $-30^{\circ}\text{C}\sim+80^{\circ}\text{C}$ 2、Air pressure: 45%-85% 3、Pressure :86Kpa-106Kpa	There is no change in appearance, and all antenna parameters are consistent with those of previous tests
Salt spray test	salinity is in range of 5% ;PH6.5-7.2;Temperature $35\pm 1^{\circ}\text{C}$;Corrosion time 16H.	
Vibration test	10-2000-10HZ amplitude 1.52mm Ten times along the X,Y,Z direction	
Drop Test	Drop from 1m onto the board	
Pull test	Bearing capacity $\geq 4\text{N}$	
Constant temperature and humidity	humidity : $40^{\circ}\text{C}\pm 2^{\circ}\text{C}$, 90-95%RH Duration: 4H recovery time: 1-2H	
High and low temperature test	70°C - 20°C 5 cycles , Under normal conditions 1-2H	