

Antenna data sheet

DESCRIPTION:

2.4G onboard antenna

TYPE:

PCB antenna

D A T E:

2024.12.19

Manufacturer:

Shenzhen Yunting communication electronics Co., LTD

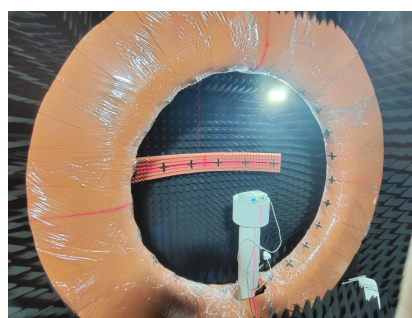
Address:

3015 Jinch Center, Hang Air Road, Baoan District,
Shenzhen

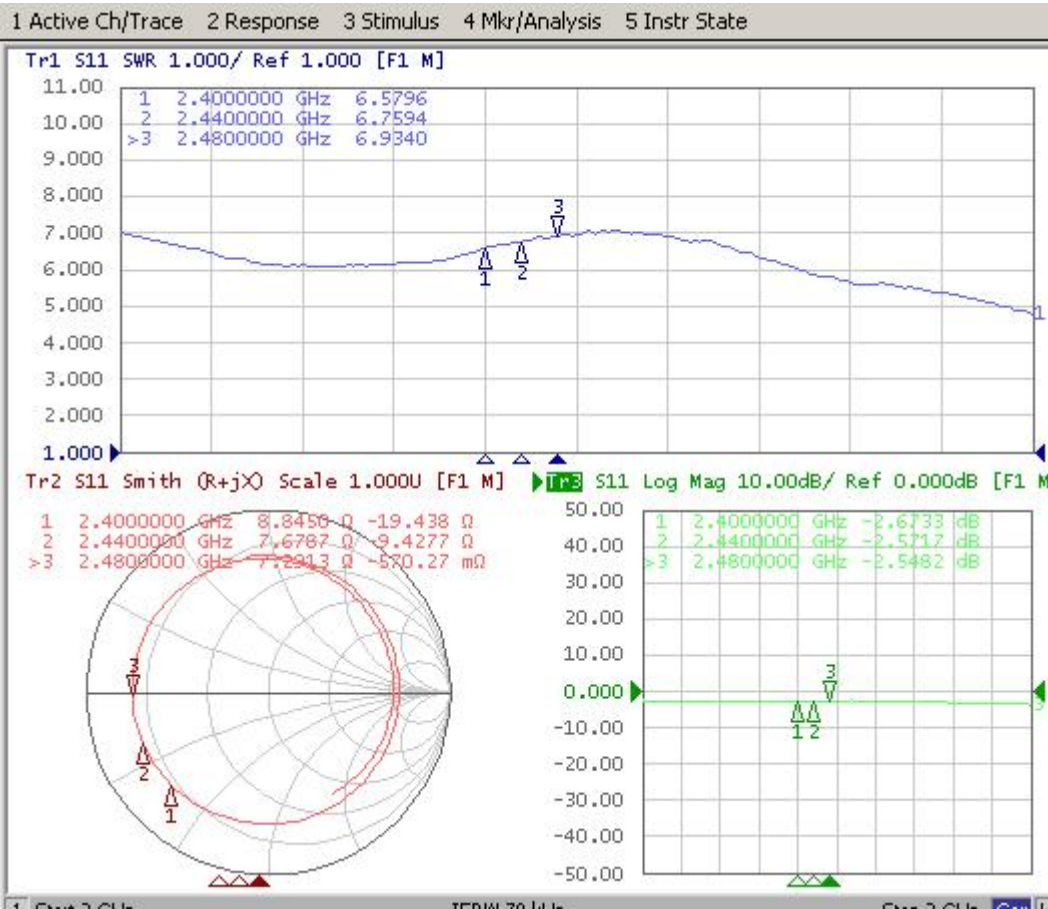
✂ Approval in duplicate, please signed by your company.

1. Test items and equipment

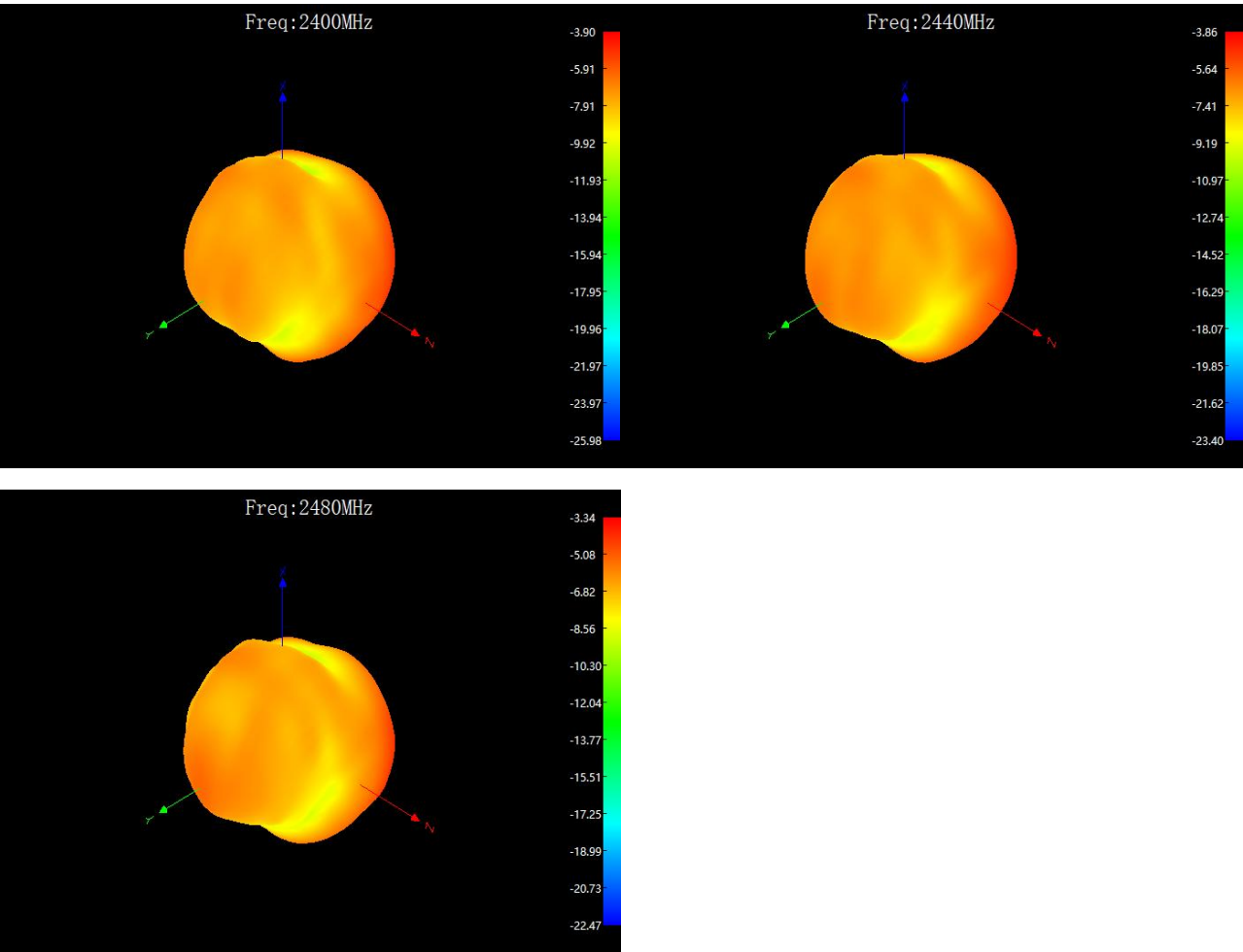
	Test item	Equipment
1. S-parameter	1. Return Loss 2. VSWR	Network analyzer: Agilent E5071B HP 8753D
2. Active	1. TRP 2. TIS	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.General-purpose tester Agilent 8960 E5515B ×2 StarPoint SP6011 Cmw500
3.Passive	1.Gain 2.Efficiency	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. General-purpose tester: HP 8753D Agilent E5071B



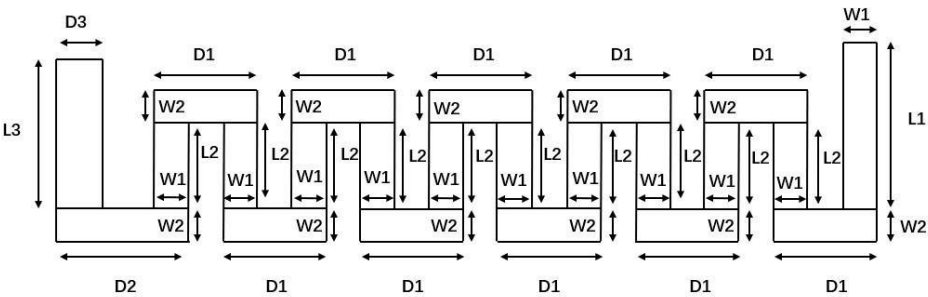
2.VSWR Smith and S11



3.3D view of antenna gain



4.Antenna structure diagram:



Technical parameters of electrical apparatus

电 性 能 指 标		Electrical Specifications	
频率范围	2402~2480MHz	Frequency Range	2402~2480MHz
电压驻波比	≤7.0	VSWR	≤7.0
输入阻抗	50 Ω	Input Impedance	50 Ω
增益	-3.86 dBi	Gain	-3.86 dBi
机 械 指 标		Mechanical Specifications	
工作温度	-40℃~+85℃	Working Temperature	-40℃~+85℃
工作湿度	20~80%	Working Humidity	20~80%

(Environment performance test) :

Project	Test condition	Test results
Storage environment	Test temperature, humidity, pressure without stated condition as follwings:1.Temperature: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$;2.Relative humidity: 45%-85%;3,Pressure: 86kpa-106kpa	Electrical and mechanical performance normal
High and low temperature test	Having 5 times cycle between -40°C to 70°C ,Then in common condition 1-2 hours test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Resistance constant hot and humid test	Relative humidity: $95\pm 3\%$,Test temperature: 40°C ,last 2 hours ,put it after 5 min test the electrical function .Test products during common condition 1-2 hours ,Then test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Vibration test	Vibrate Frequency:10-55HZ; Distance :0.35mm;Acceleration :50.0m/s;Sweep frequency cycle:30 times	Electrical and mechanical performance normal
Fall test	From 1m height fall down 3 times freely (vertical direction)	Electrical and mechanical performance normal