

Shenzhen Yunding Communication Electronics Co., LTD

TEL: +86 0755-23073599

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E-mail:wht0809@163.com

APPROVAL SHEET

Shenzhen aix video Technology Co., LTD

CUSTOMER:

D16-2.4/5G-1.13-L120MM-IPEX1

DESCRIPTION:

FPC Antenna

TYPE :

PART NO.:

CUS PART NO.:

2023.12.7

D A T E:

Yunding signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT

Customer signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

TEL: 0755 23073599

✱ Approval in duplicate, please signed by your company.

Address: 3015 Jinchi Center, Hang Air Road, Baoan District, Shenzhen

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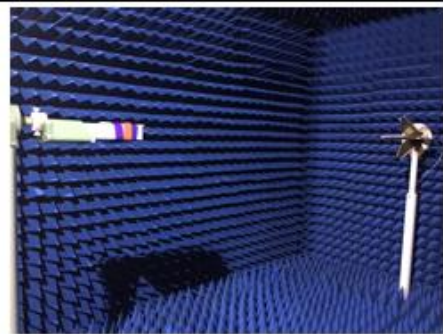
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1.Test items and equipment

	Test items	Equipment
1. S-parameter	1. Return Loss 2. VSWR	Network analyzer: Agilent E5071B HP 8753D
2. Active test	1. Transmitting power 2. Receiving sensitivity	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.Comprehensive tester : Agilent 8960 E5515B ×2 StarPoint SP6011
3.Passive test	1.Gain 2.Efficiency	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Network analyzer: Agilent E5071B HP 8753D



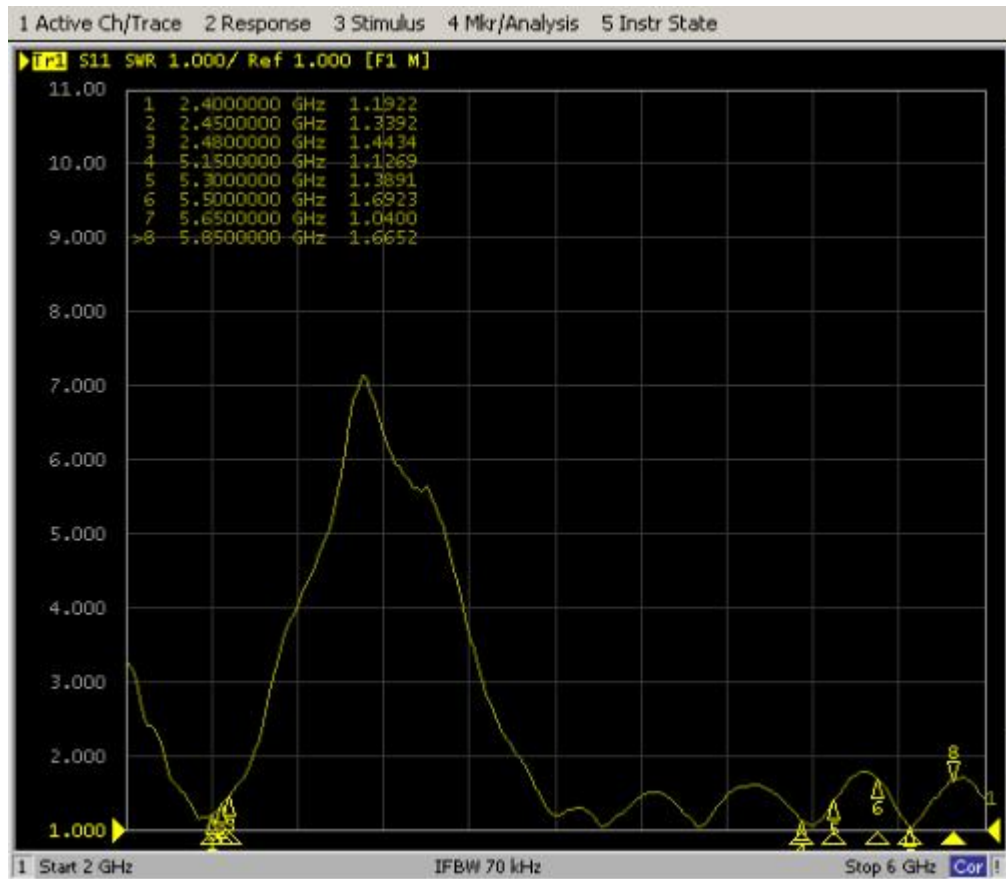
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2. Antenna performance-SWR



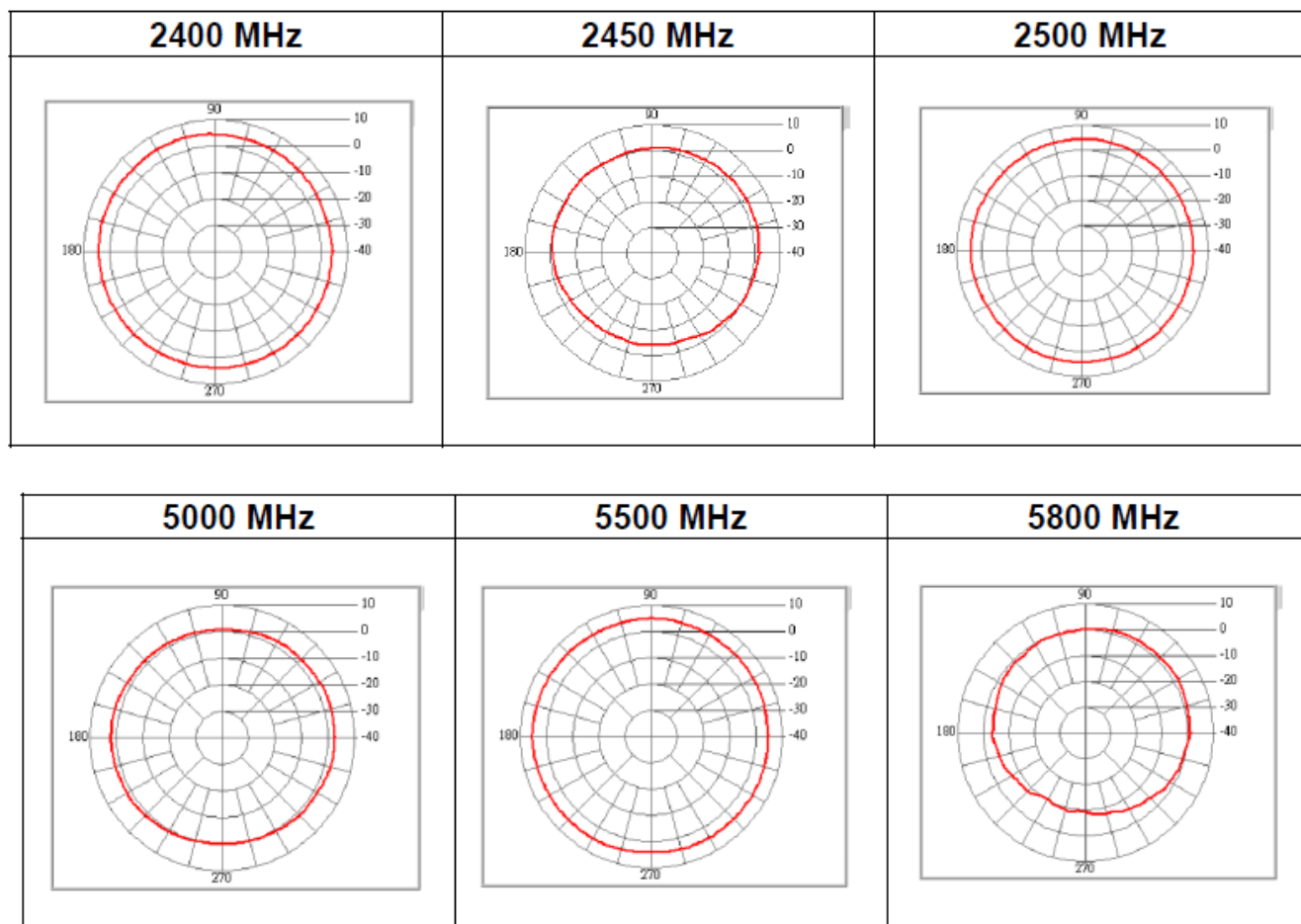
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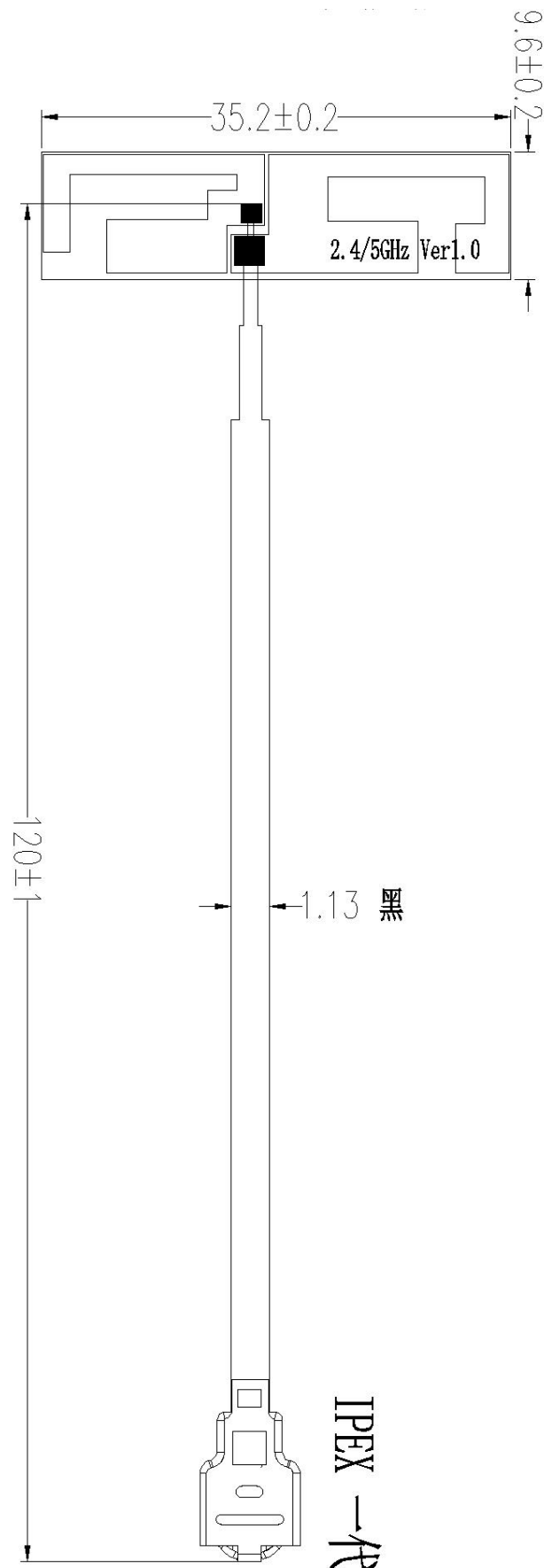
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3.Antenna-OTA Test data TRP/TIS



4. Antenna structure diagram:



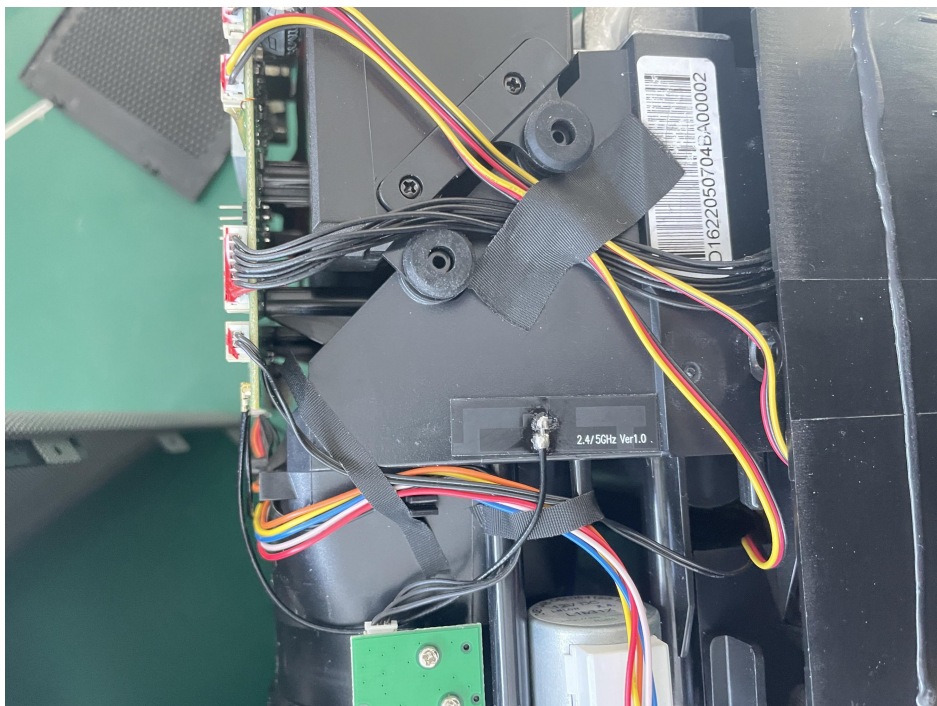
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5. Antenna position assembly drawing:



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Technical parameters of electrical apparatus

Electrical Specifications

Frequency Range	2400~2500/5100~5800MHz
VSWR	≤ 2.0
Input Impedance	50 Ω
Gain	3 DBI

Mechanical Specifications

Antenna Color	Black
Input connector	IPEX 1
Cable length	120mm
Working Temperature	-40℃~+85℃
Working Humidity	20~80%

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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