

Shenzhen Yunding Communication Electronics Co., LTD

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E-mail:wht0809@163.com

APPROVAL SHEET

CUSTOMER: **Guangzhou Chenjing Technology Co., Ltd**

DESCRIPTION: **Smart Gamepad Left-2.4G**

PART NO.:

CUS PART NO.:

D A T E: **August 30, 2024**

Yunding signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT

Customer signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

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✂ Approval in duplicate, please signed by your company.

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1.Test items and equipment

	Test items	Equipment
1. S11-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.general-purpose tester : Agilent 8960 E5515B ×2 StarPoint SP6011 Cmw500
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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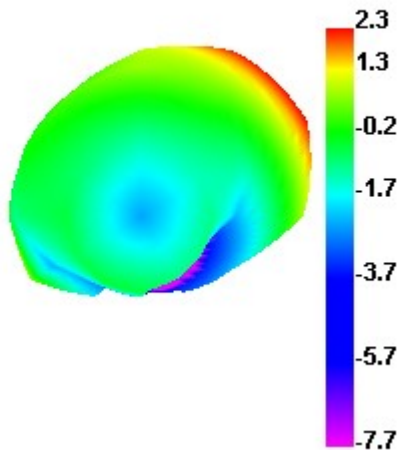
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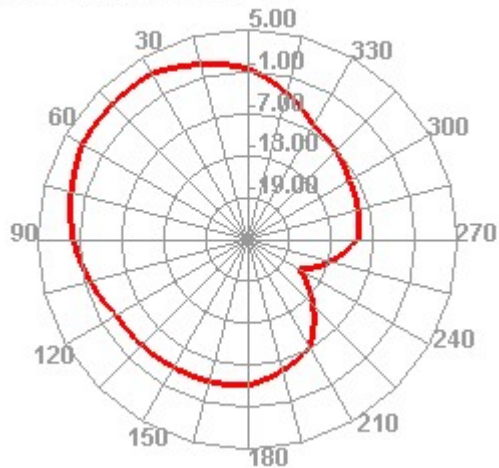
2. Antenna efficiency and gain

Passive Test For BT 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	57.85	2.34
2410	56.45	2.24
2420	52.75	2.04
2430	52.75	2.09
2440	55.22	2.34
2450	58.56	2.67
2460	58.38	2.72
2470	59.85	2.92
2480	60.74	3
2490	63.22	3.1
2500	62.03	2.91

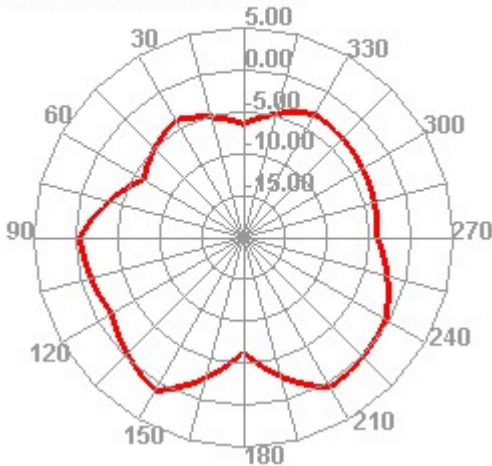
2400.000MHz



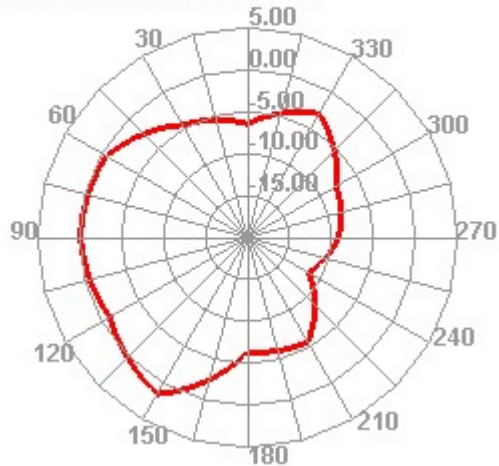
2400.000MHz H



2400.000MHz E1



2400.000MHz E2



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3.Antenna structure diagram:

Technical parameters of electrical appliances	
Electrical Specifications	
Frequency Range	2400~2500MHz
Input Impedance	50 Ω
Gain	3 DBI
Mechanical Specifications	
Antenna color	Black
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 °C ~ +80 °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±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 1 mheight fall down 3 times freely (vertical direction)	Electrical and mechanical performance normal