

Specifications

for

Customer

Part Number

Our Company

Part Number

YX-ALK-DJ05 Walkie-Talkie - V1.0

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Wen Shihao **Date: 2025.11.5**

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1.Both Parties Confirm

1.1 Customer Confirmation Signature

Customer: Limited Company

Customer Department / Position	Confirmation signature	Confirmation date
Hardware / RF		
Structure		
Project Manager		
Business / Procurement		
Review		

1.2 Confirmation Signature from Yixin Technology

Department / Position	Confirmation signature	Confirmation date
Antenna Engineer		
Structural Engineer		
Project Manager		
QA		
Review		

2. General Information

2. Scope of Application

1

This specification applies only to

2. Operating Temperature Range

2

This product operates at -20 ~ +65℃

2. Storage Temperature Range ℃

3

This product should be stored at -30 ~ +75℃

3. General Product Specifications

NO.	ITEMS	DETAILS
1	Model	DJ05
2	Frequency Band	2400-2500MHz
3	VSWR	≤2.0
4	Impedance	50 Ω
5	Antenna Type	Monopole
6	Antenna Implementation	Copper Tube
7	Antenna Image	

4. Product Specifications

5. 4.1 Product Structural Parameters

6. 4.11 Product Material Composition:

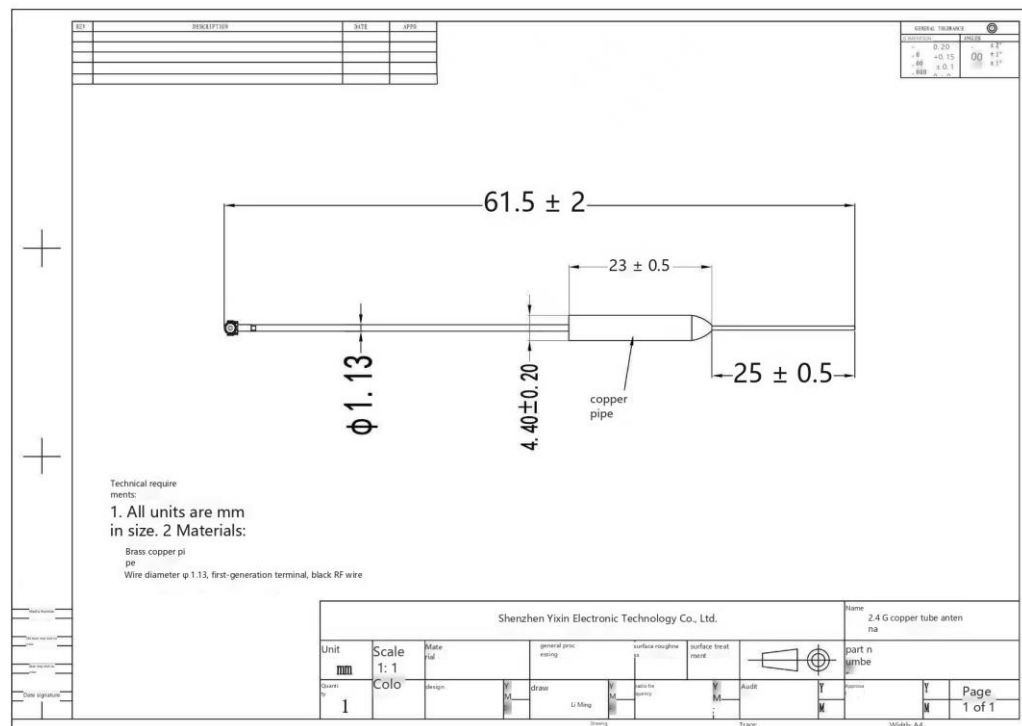
Serial Number	Material	Specification (MM)
1	Copper Tube	Brass
2	Black RF Cable	Total length 61.5mm, $\phi 1.13$ First generation terminal

4.12 Appearance

The product has a good appearance, free from scratches, sweat stains, protrusions, and other serious defects that affect its appearance.

4.13 Structural Dimensions

Reference Product Drawings:



4. 2 Product Electrical Performance Test Data

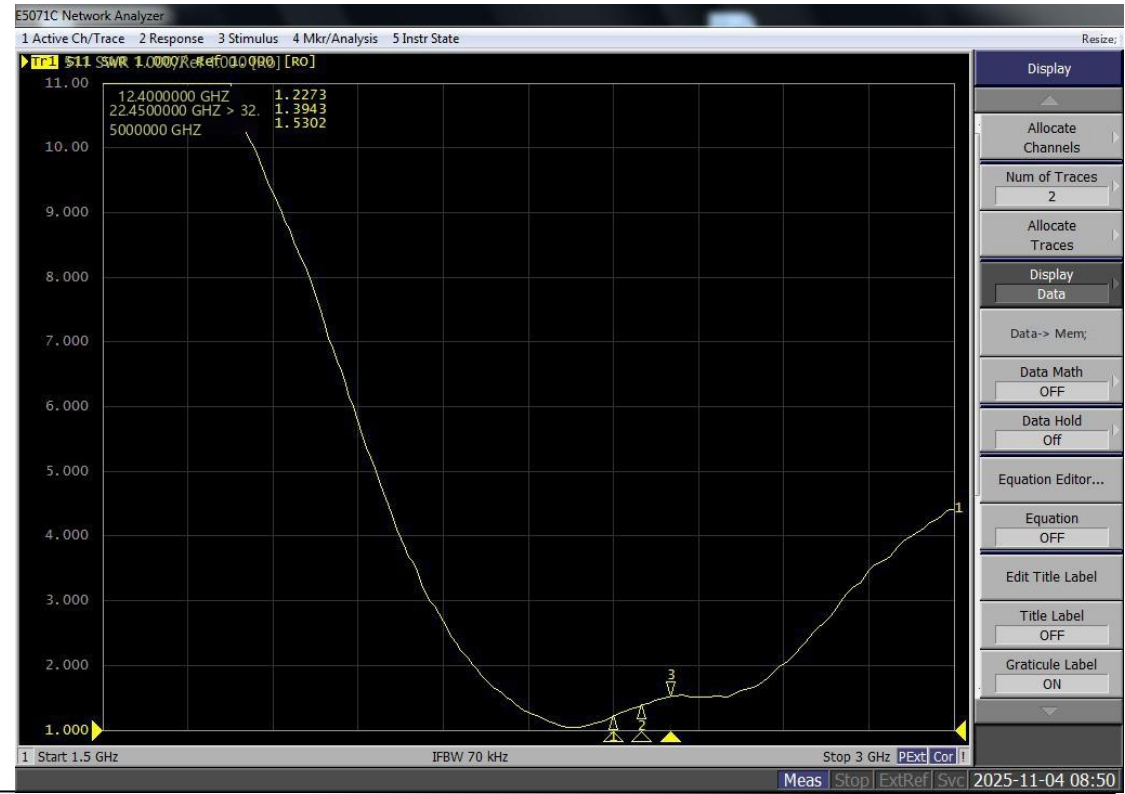
4. 21 Testing environment and instrument equipment

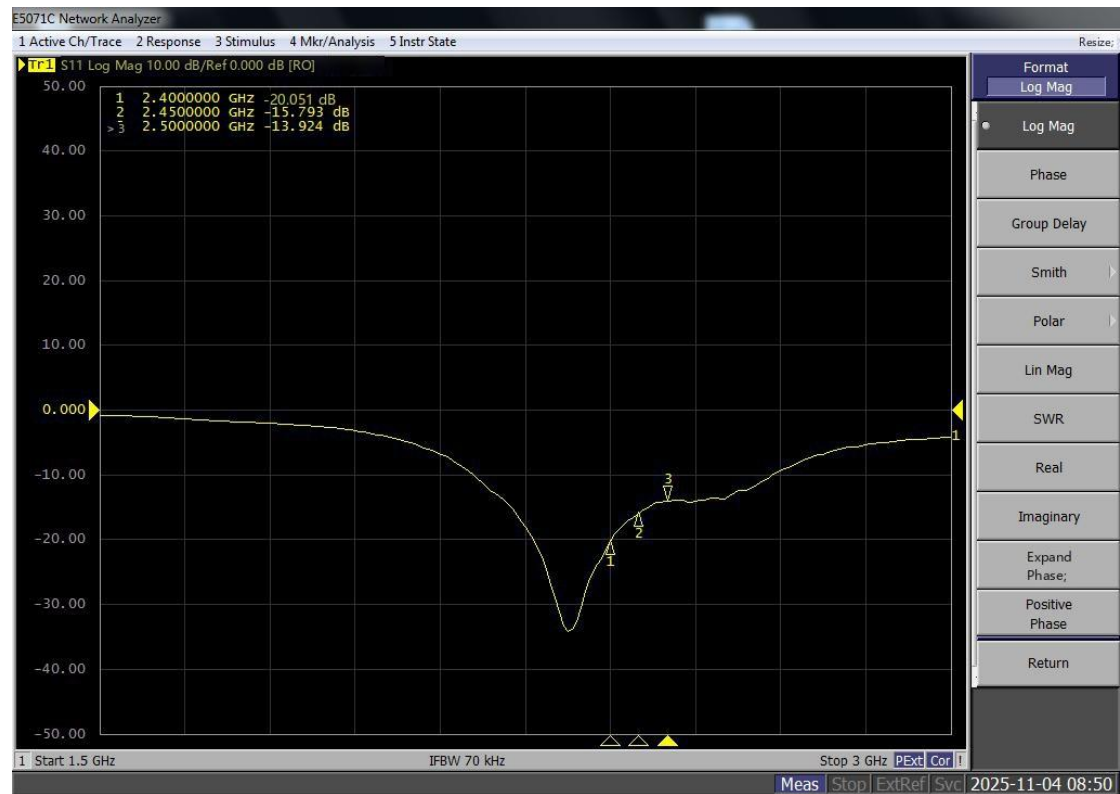
Test environment: temperatur: 10℃——+30℃ Relative humidity: ≤ 80% (+40 ℃) Atmospheric pressure: 750 mm kg ± 30 mm kg	Testing equipment: Network Analyzer KEYSIGHT E5071C Multi probe microwave darkroom
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4. 22 Product electrical performance tes:

Marker	2400MHz	2450MHz	2500MHz
Returnloss	1. 22	1. 39	1. 53
VSWR	-20	-15. 79	-13. 92

S11 image of the product:





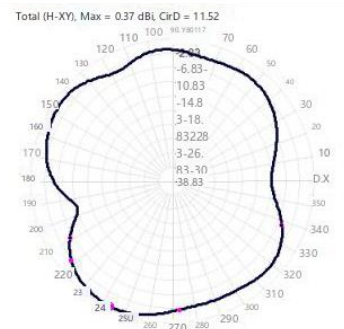
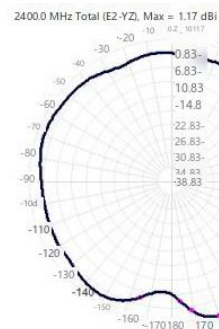
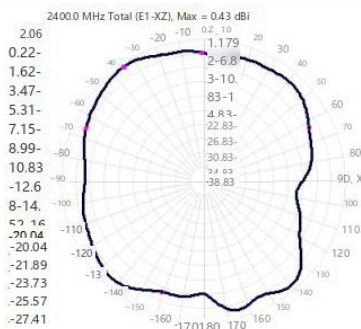
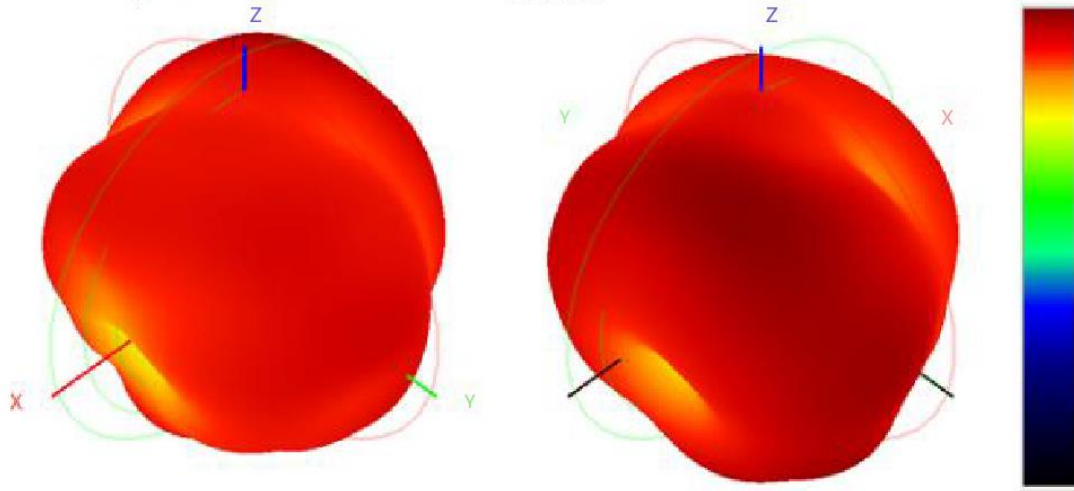
4.23 Gain, Efficiency, and Radiation Direction Diagram

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	2.06	62.40
2450	2.30	62.41
2500	1.88	64.65

Radiation pattern frequency points

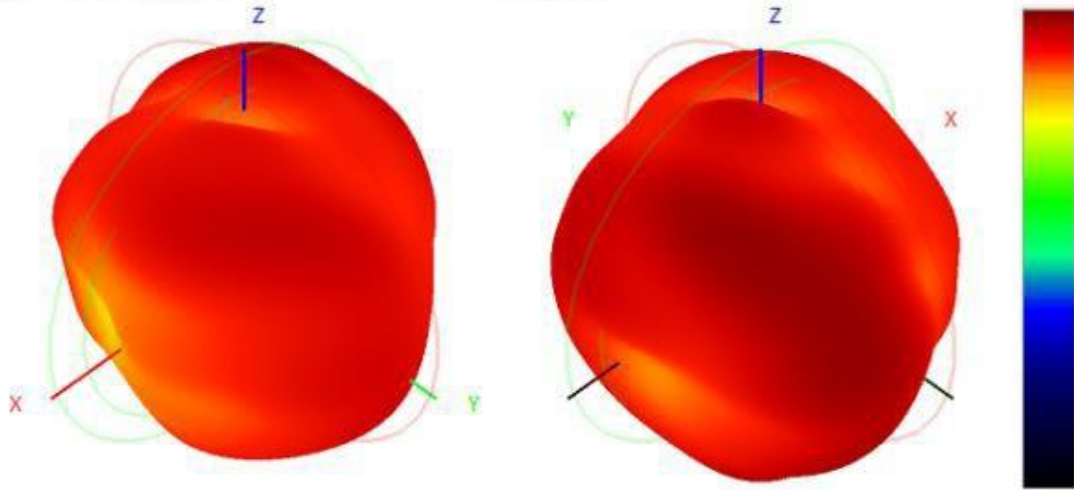
2400.0 MHz H + V, Eff: 62.4%

Back View

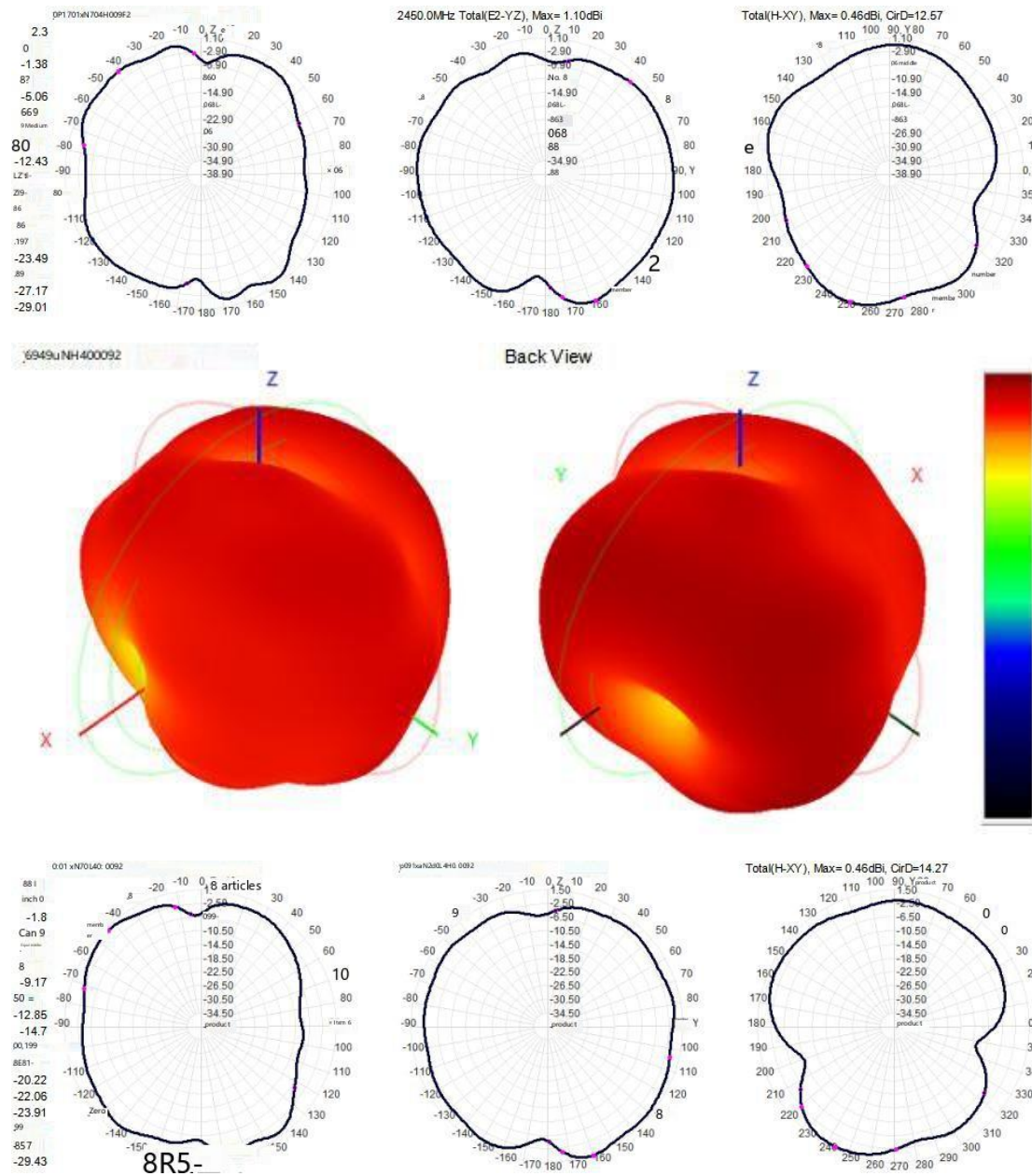


2450.0 MHz H + V, Eff: 62.4%

Back View



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5. Product Packaging Method

Packaging Method:
Self-sealing bag packaging, 200 pieces per bag.

6. Document History

Document Number Document No.	
Date Release Date	2025/11/5
Compiled Author	Hungjie
Reviewed Review	WH

Document History Table

Revised History

Date	Version	Revised Record
2025/11/5	1.00	New Project