

SPECIFICATION

for

Customer No

Product No.

YX-ALK-DJ05 对讲机-V1.0

Author: XiaofengZeng Review: Wenshihao

Release Date: 2025.11.21

ShenZhen yixin Electronic Technology Co., Ltd

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SHENZHEN YIXIN ELECTRONIC TECHNOLOGY CO., LTD	
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1. Bilateral Confirmation page

1.1 Customer signature

Customer:

Seapartment/post	Sign	Date
Hardware Engineer/RD		
Mechanical/MD		
Project Manager/PM		
Commercial/Puchasing		
Checker		

1.2 Signature of yixin Technology company

Seapartment/post	Sign	Date
Antenna Engineer/RD		
Mechanical/MD		
Project Manager/PM		
QA		
Checker		

2. General

2.1 Scope of application

2.2 Operating temperature range

Temperature range of this product: -20 ~ +65 °C

2.3 Storage temperature range:

This product is stored at - 30 ~ + 75 °C

3. General product specifications

NO	ITEMS	DETAILS
1	Type	DJ05
2	Operating Frequency Band	2400-2500MHz
3	VSWR	≤2.0
4	Impedance	50Ω
5	Antenna type	Monopole
6	Antenna implementation form	Brass pipe
7	Entity Picture	

4.Specification Detials

4.11 Mechanical Properties

4.11 Product Composition:

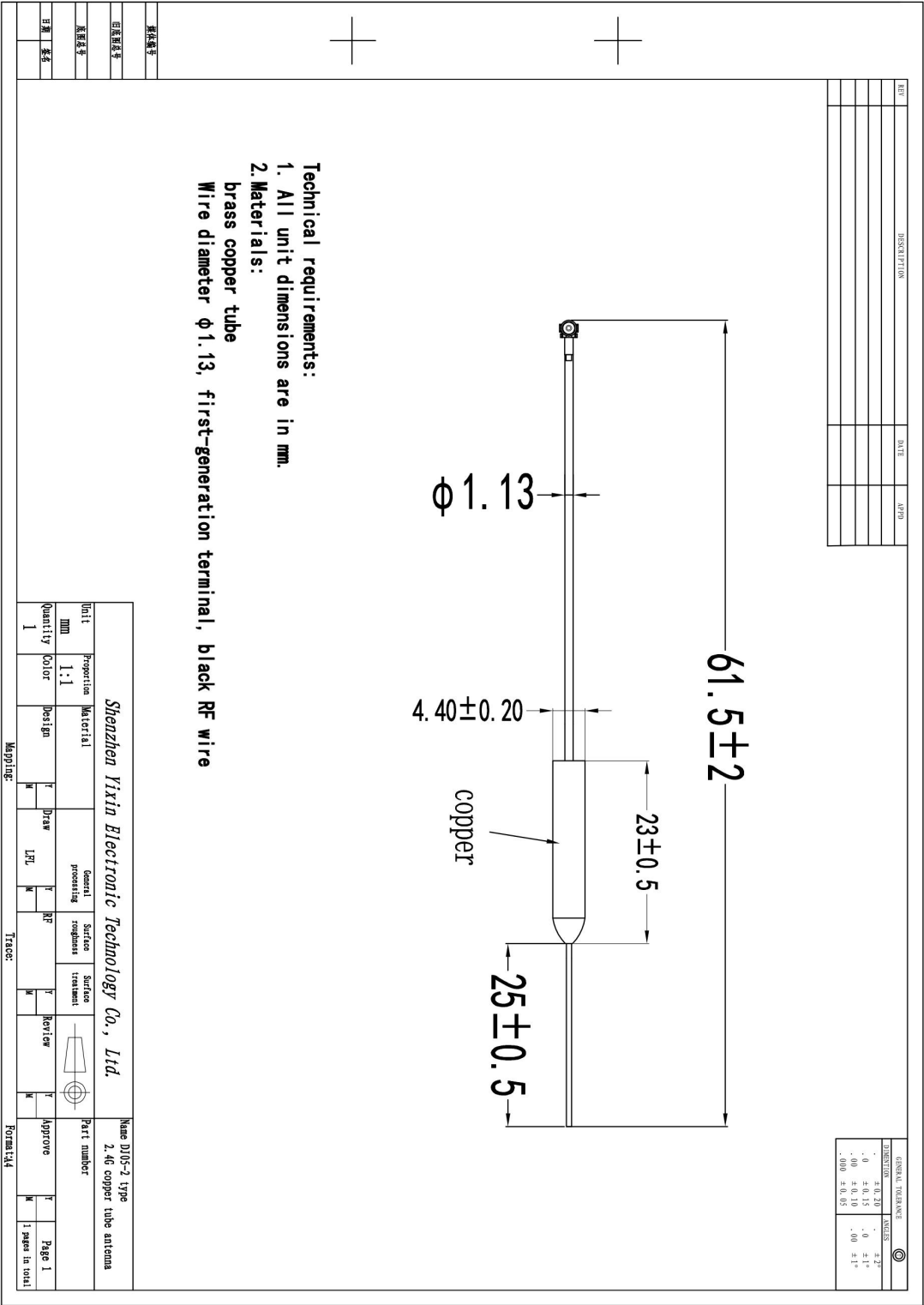
Serialnumber	Material	Specifications
1	Brass pipe	Brass
2	Black radio frequency rays	One-piece terminal, wire length 53mm, $\phi 1.13$ black wire material

4.12 Apperance

Good appearance without scars 、dirts、protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Refer to product drawings:



4.2 Electric Performance

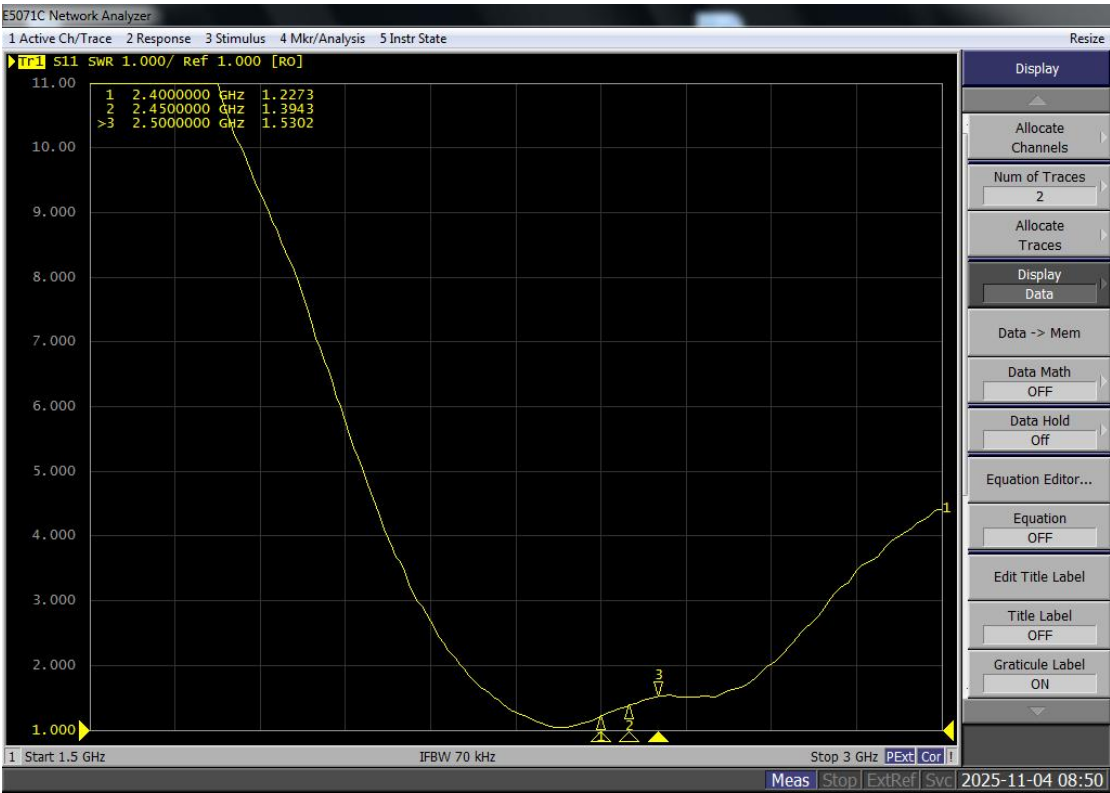
4.21 Test condition

Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: Agilent E8358A
Humidity: ≤80% (+40℃)	Anechior Chamber: ETS
Atmospher: 750mmkg±30mmkg	

4.22 Test Data for Electrical Performance:

Marker	2400MHz	2450MHz	2500MHz
Returnloss	1.22	1.39	1.53
VSWR	-20	-15.79	-13.92

4.22.1 S11 of the Antenna:

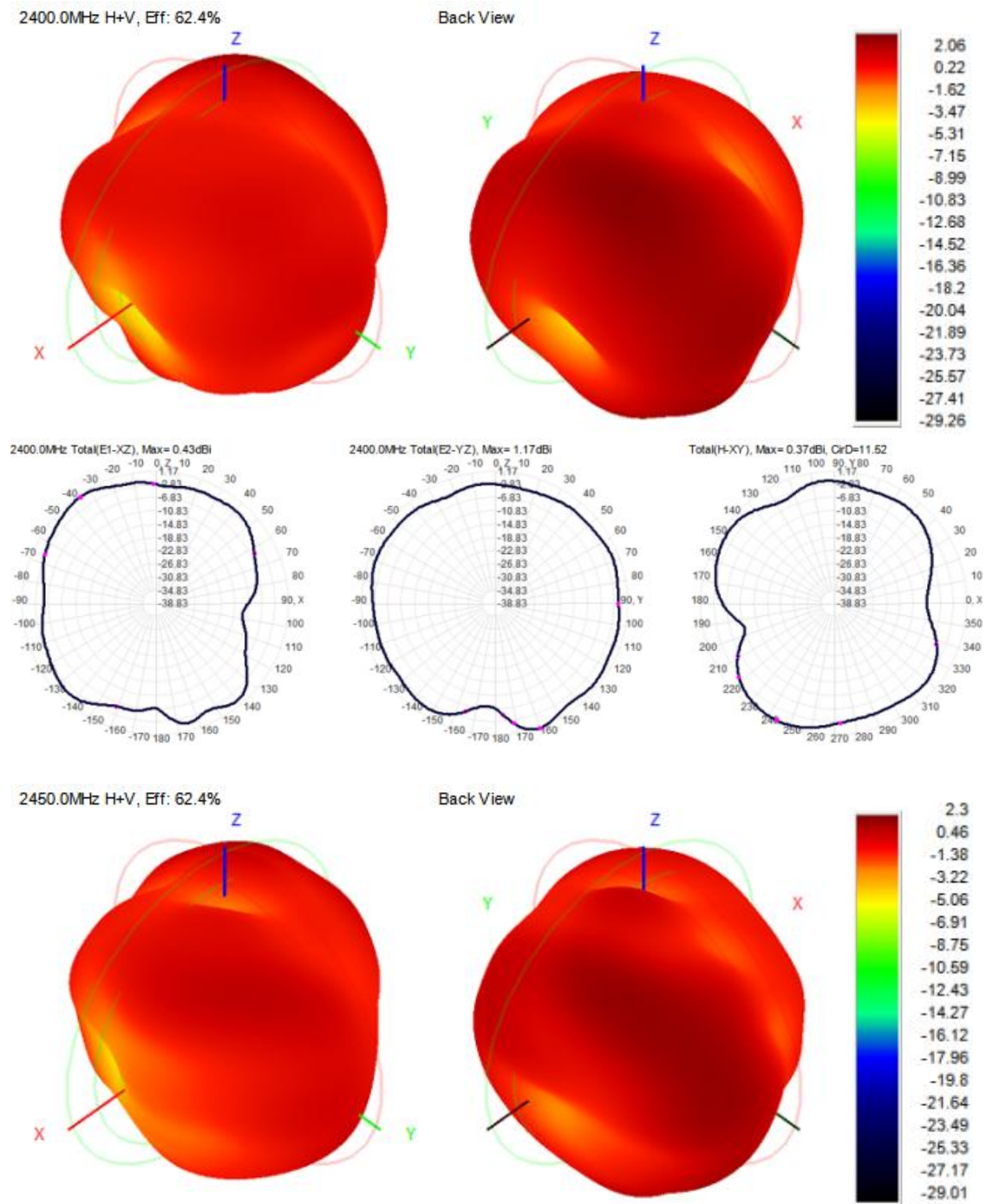


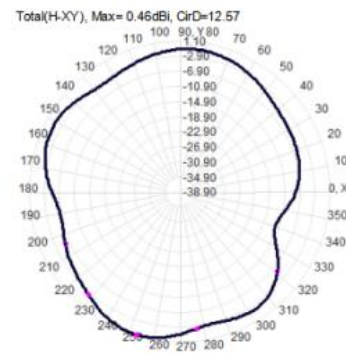
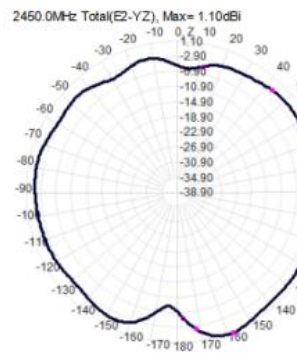
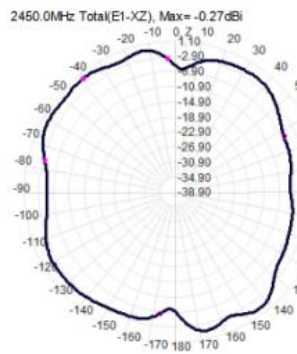


4. 23 Radiation pattern of antenna, frequency: 2400MH

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

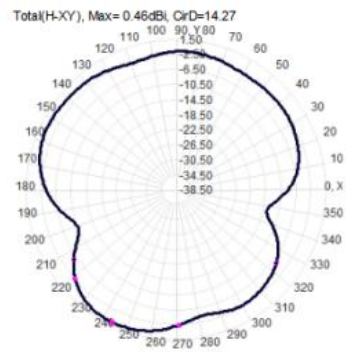
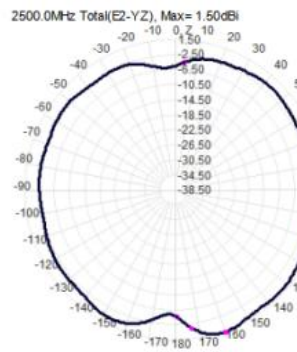
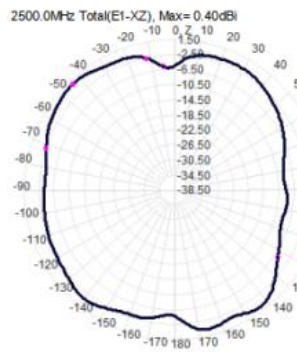
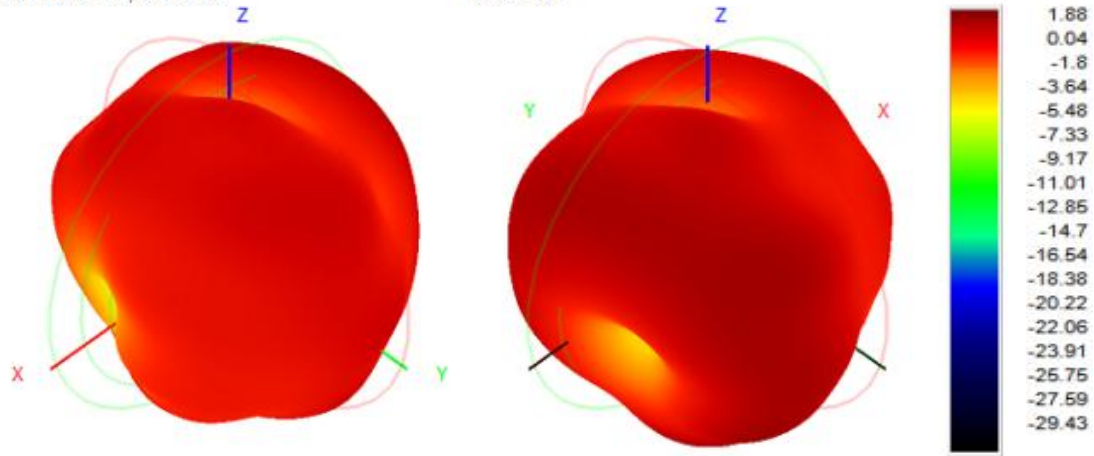
Radiation pattern frequency point





2500.0MHz H+V, Eff: 64.6%

Back View



5. Product Packaging

Manner of packing: Packed in self sealed bags, 200 pcs each.

6. Document Resume

Document No.	
Release Date	2025/11/21
Author	XiofengZeng
Review	WH

Revised History

Date	Version	Revised Record
2025/11/21	1.00	New Project