

SPECIFICATION

for

Customer No

SPP-T399A-V01

Product No.

YX-ALK-T400 对讲机-V1.0

Author: XiaofengZeng Review: Wenshihao

Release Date: 2025.11.13

ShenZhen yixin Electronic Technology Co., Ltd

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Contents

SPECIFICATION	
SHENZHEN YIXIN ELECTRONIC TECHNOLOGY CO., LTD	
CONTENTS	
1. BILATERAL CONFIRMATION PAGE	
2. GENERAL	
3. GENERAL PRODUCT SPECIFICATIONS	
4. SPECIFICATION DETIALS	
4.1 MECHANICAL PROPERTIES	
4.2 ELECTRIC PERFORMANCE	
5. PRODUCT PACKAGING	
6. DOCUMENT RESUME	

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	2.4G walkie-talkie
2	Operating Frequency Band	2400-2500MHz
3	VSWR	≤2.0
4	Impedance	50Ω
5	Antenna type	Monopole
6	Antenna implementation form	FPC
7	Entity Picture	

4. Specification Detials

4.11 Mechanical Properties

4.11 Product Composition:

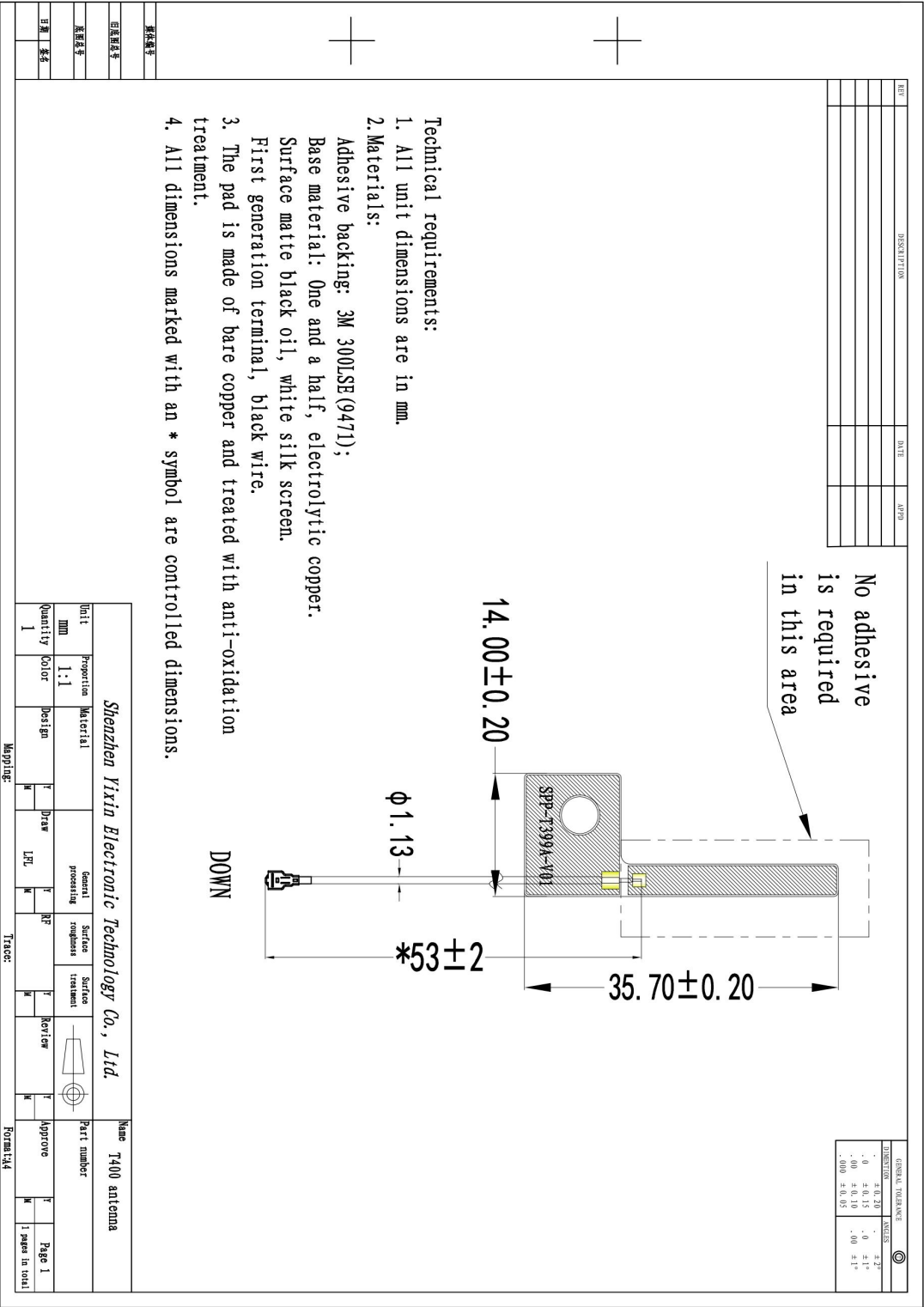
Serialnumber	Material	Specifications
1	FPC	35.7MM*14MM black
2	Coaxial line	One-piece terminal, wire length 53mm, $\phi 1.13$ black wire material

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

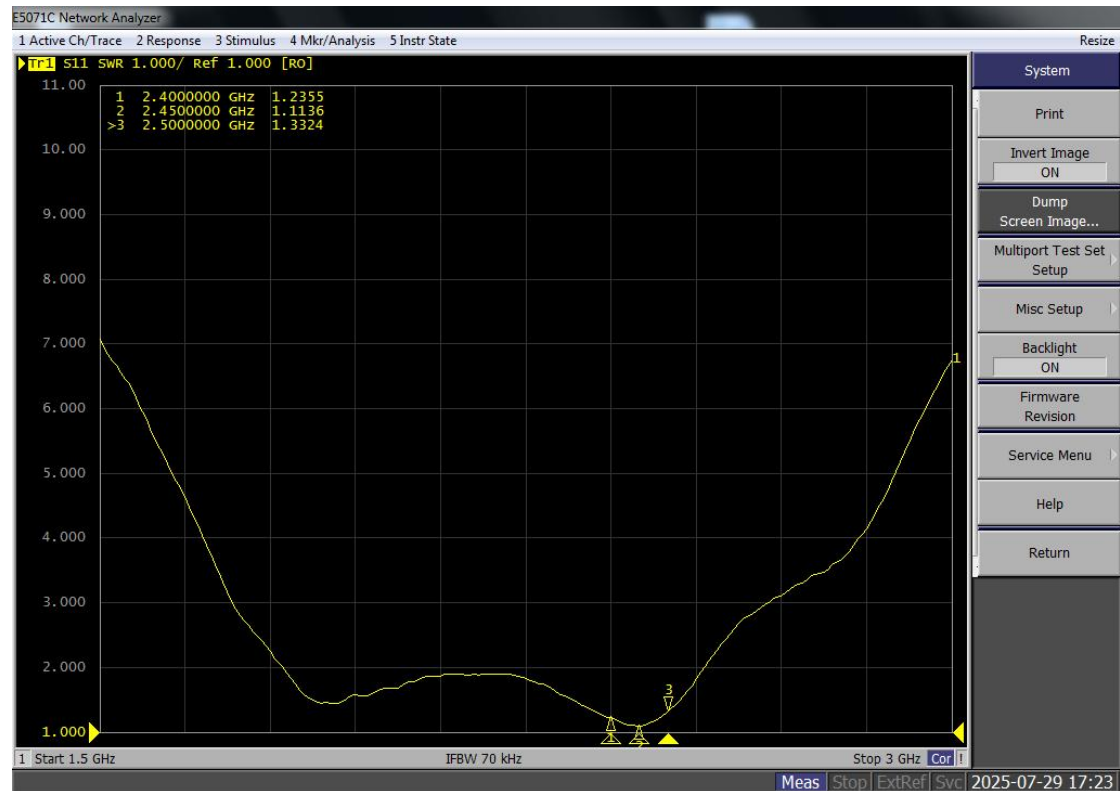
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: Agilent E8358A
Humidity: ≤80%（+40℃）	Anechior Chamber: ETS
Atmospher: 750mmkg±30mmkg	

4.22 Test Data for Electrical Performance:

Marker	2400MHz	2450MHz	2500MHz
Returnloss	1. 23	1. 11	1. 33
VSWR	-19. 73	-25. 15	-16. 54

4.22.1 S11 of the Antenna:

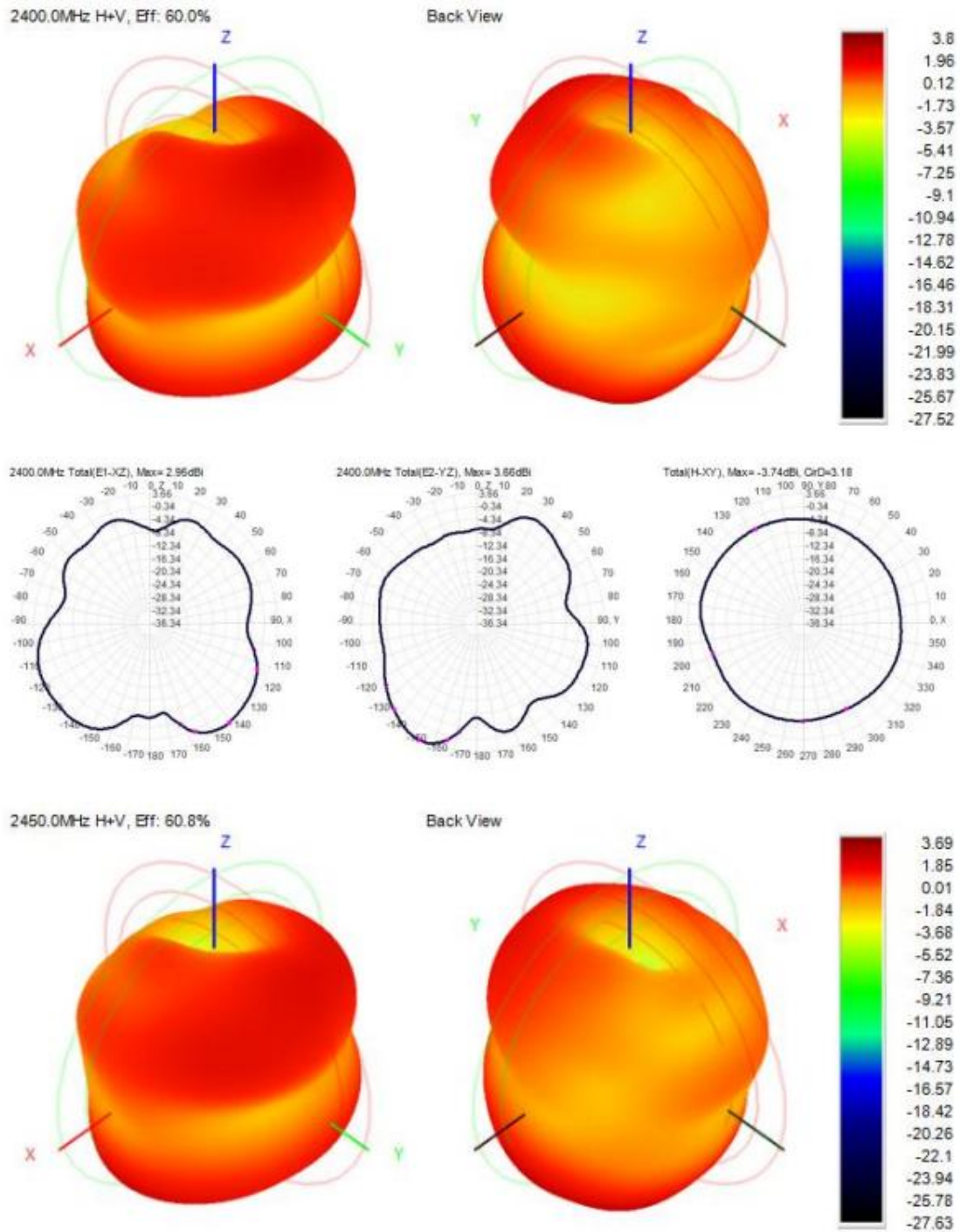


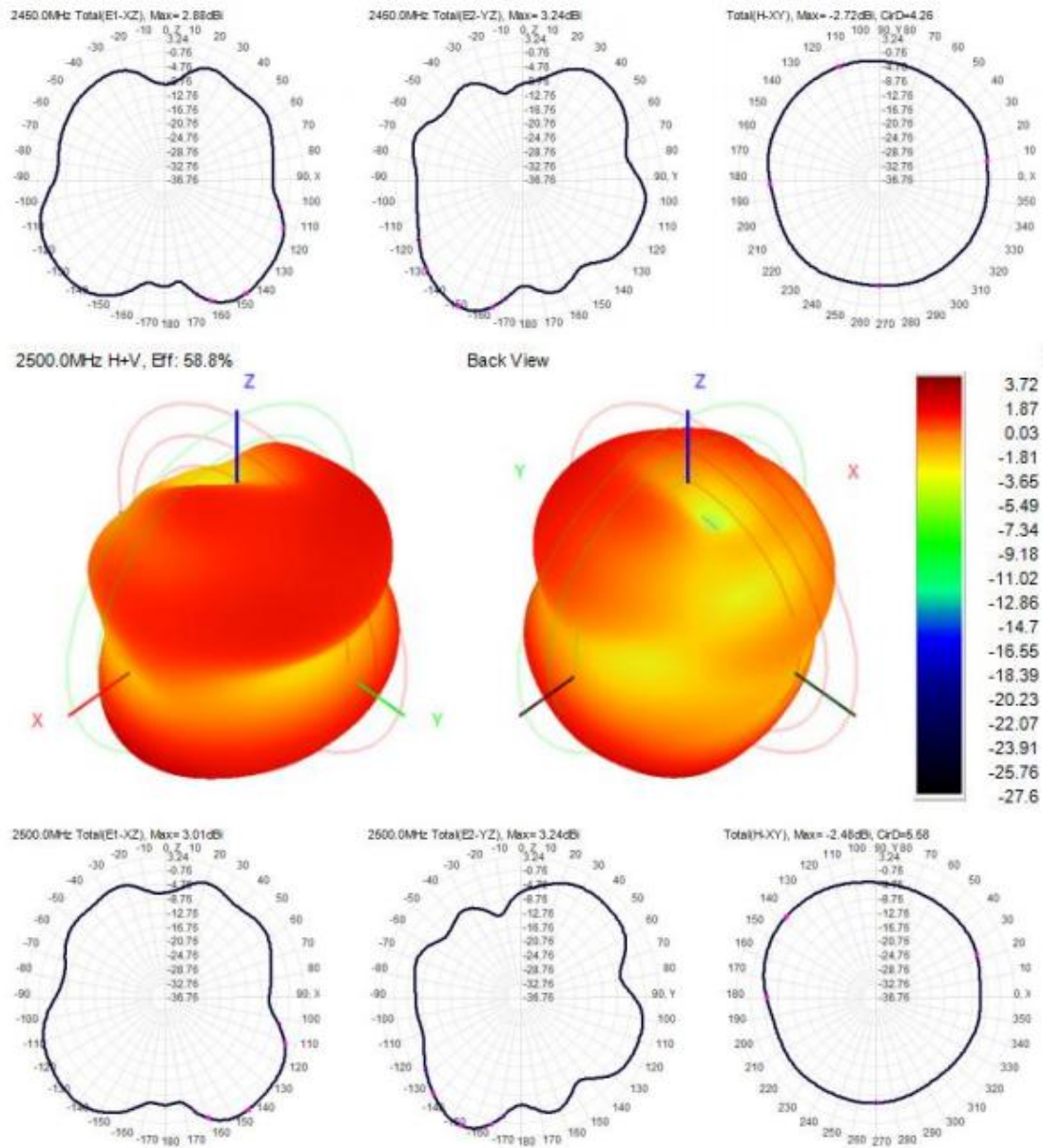


4. 23 Radiation pattern of antenna, frequency:

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	3.80	59.98
2450	3.69	60.79
2500	3.72	58.82

Radiation pattern frequency point





5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.

6. Document Resume

Document No.	
Release Date	2025/11/13
Author	XiofengZeng
Review	WH

Revised History

Date	Version	Revised Record
2025/11/13	1.00	New Project