

Specifications

for

Customer part number

Our company's part number

YX-ALK-WKN-K1-Walkie-talkie -V2.0

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Reviewed by: Wen Shih-hao

Date: October 11, 2025

Manufacturer:

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Shenzhen Yixin Electronic Technology Co.,Ltd

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2.General matters

2.1Scope of application

This specification only applies to

2.2Operating temperature range

This product has a temperature range for operation.-20 ~ +65℃

2.3Storage temperature range

This product is stored at -30 ~ +75℃

3.General Product Specifications

NO.	ITEMS	DETAILS
1	model	K1walkie-talkie
2	frequency band	2400-2500MHz
3	VSWR	≤2.0
4	impedance	50Ω
5	Antenna implementation	FPC
6	Antenna image	

4.Product Specifications

4.1Product structure parameters

4.11Product material composition:

Serial Number	Material	Specifications (mm)
1	FPC	40.8mm x 4.4mm Black
2	coaxial cable	First-generation terminal, total wire length 32mmφ1.13 Black Colored wire

4.12Appearance

The product has a good appearance, with no scratches, sweat stains, protrusions or other serious defects that affect its appearance.

4.13Structural dimensions

Refer to the product drawings:

Product drawings:

[illegible]

4.2Product electrical performance test data

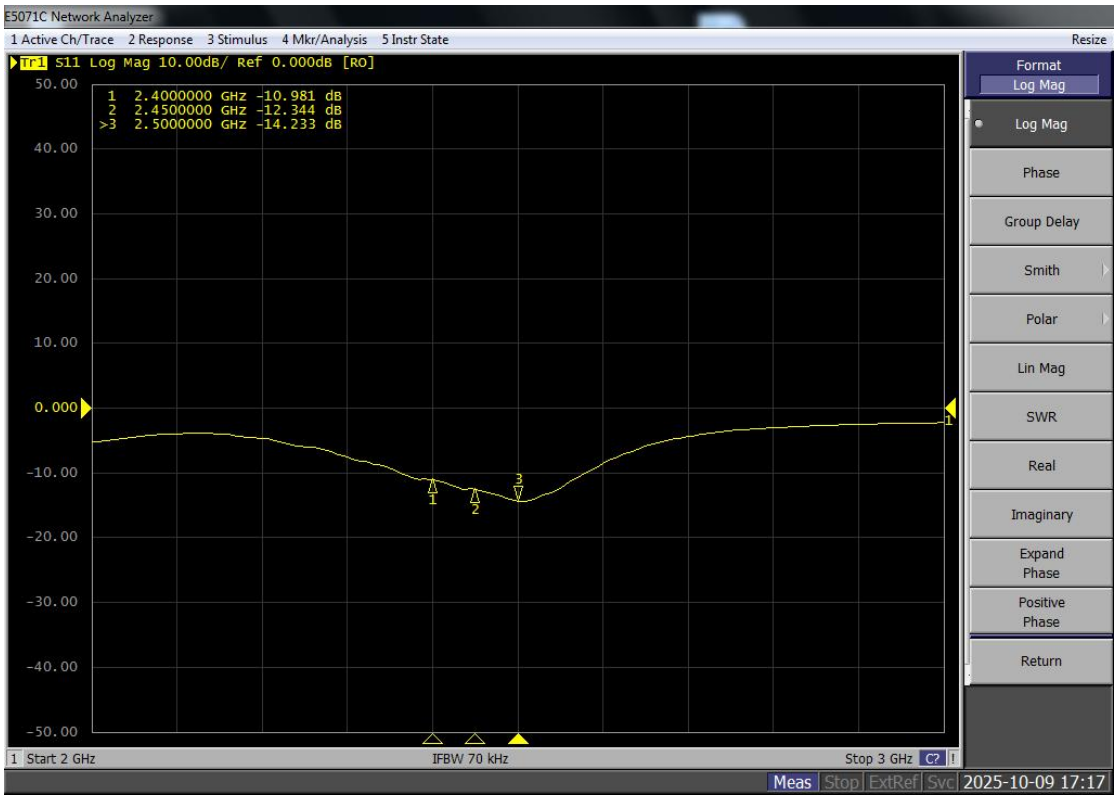
4.21 Test Environment and Equipment

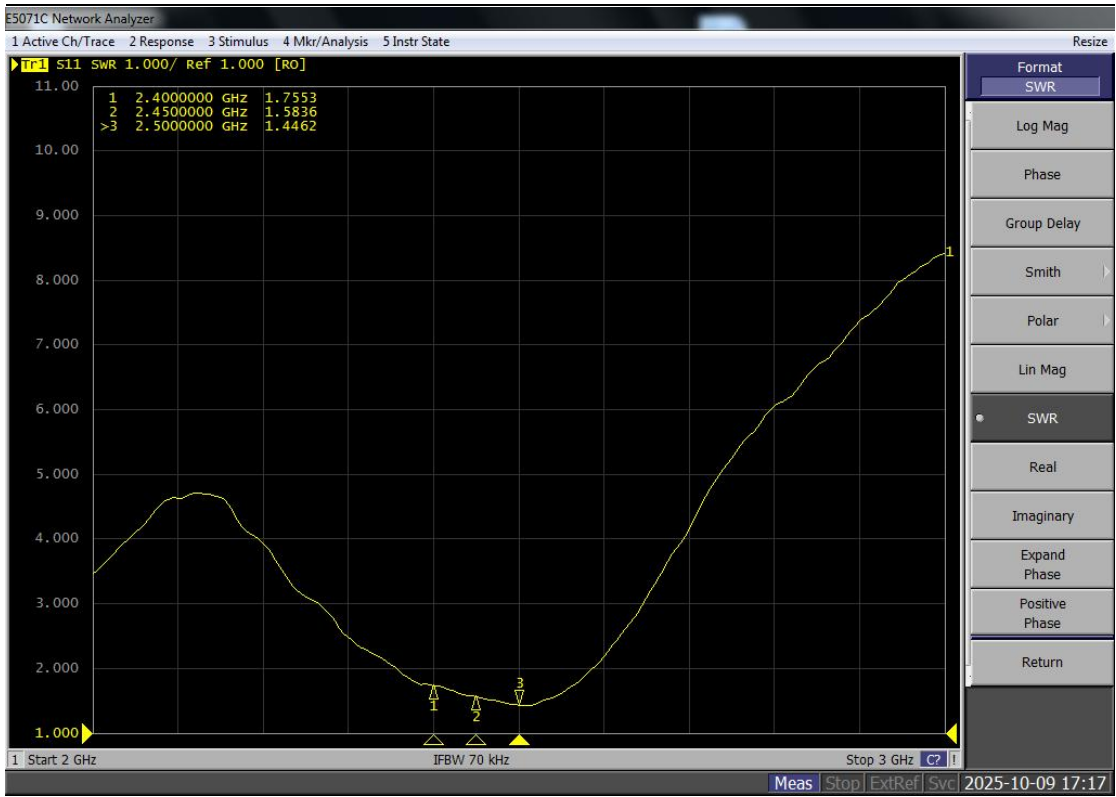
Test environment:	Test equipment:
temperature: 10°C to +30°C	Network Analyzer
Relative humidity: ≤80% (+40°C)	KEYSIGHT E5071C
Atmospheric pressure: 750 mm kg ± 30 mm kg	Multi-probe microwave anechoic chamber

4.22 Product electrical performance test data:

Marker	2400MHz	2450MHz	2500MHz
Returnloss	1.75	1.58	1.44
VSWR	- 10.98	- 12.34	- 14.23

ProductsS11picture:

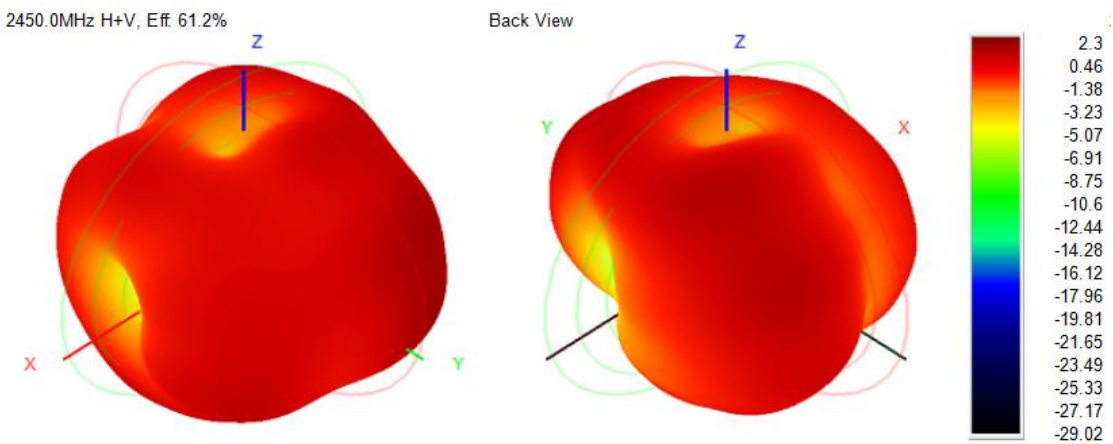
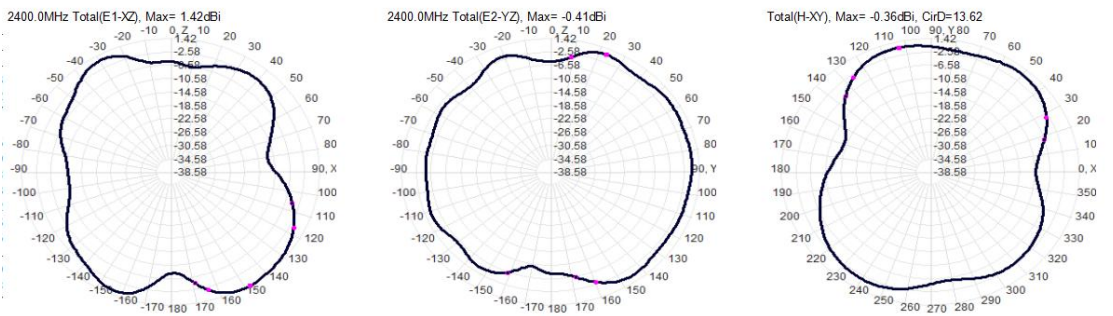
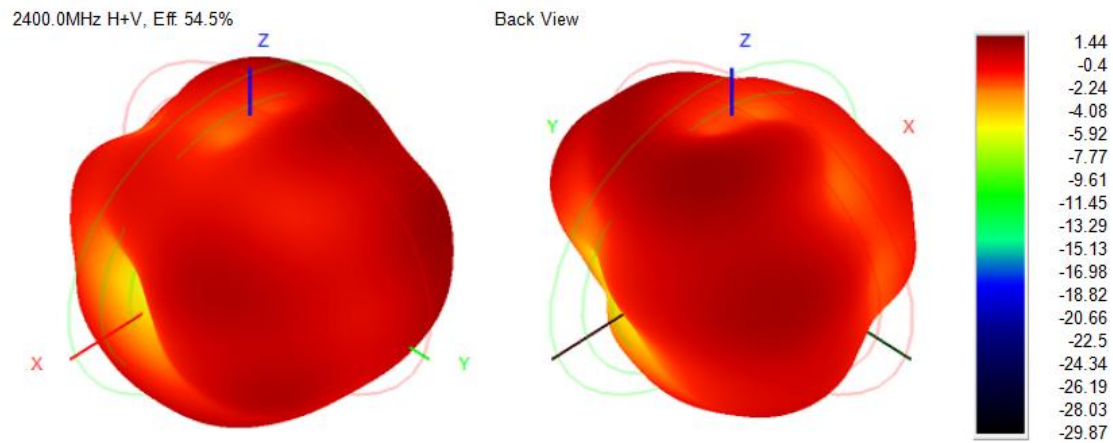




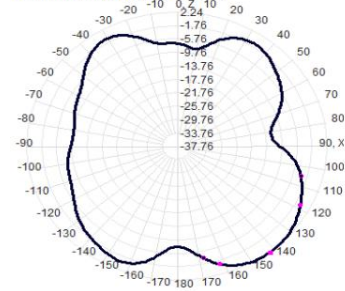
4.23 Gain, Efficiency, and Radiation Pattern

frequency(MHz)	Gain(dBi)	Efficiency(%)
2400	1.44	54.54
2450	2.30	61.16
2500	2.08	55.53

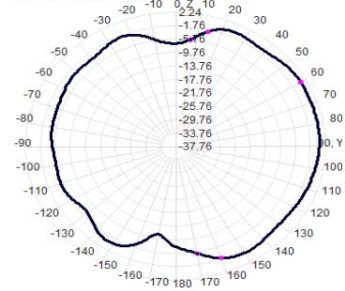
Radiation pattern frequency points2400MHz



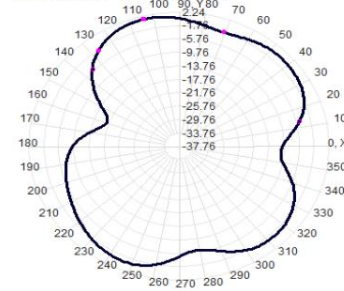
2450.0MHz Total(E1-XZ), Max= 2.24dBi



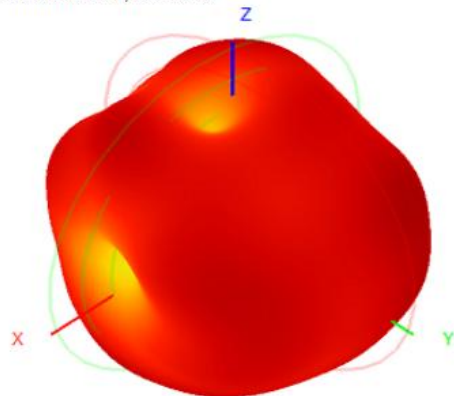
2450.0MHz Total(E2-YZ), Max= 0.55dBi



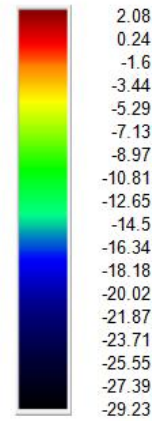
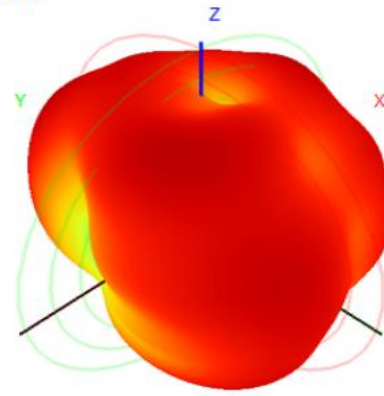
Total(H-XY), Max= 1.21dBi, CirD=18.54



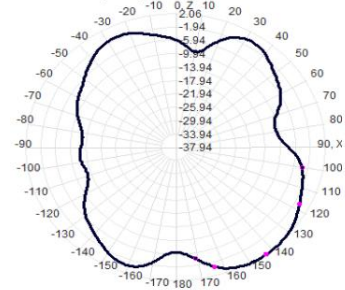
2500.0MHz H+V, Eff. 55.5%



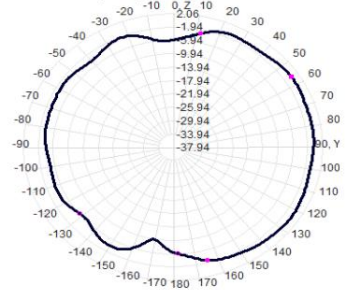
Back View



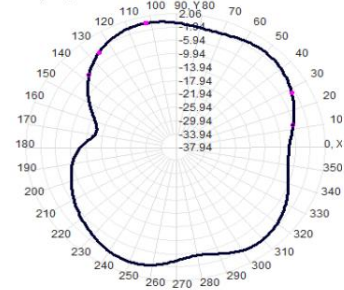
2500.0MHz Total(E1-XZ), Max= 2.06dBi



2500.0MHz Total(E2-YZ), Max= -0.08dBi



Total(H-XY), Max= -0.01dBi, CirD=16.32



5.Product Packaging

Packaging method:
Self-sealing bags, 200 pieces per pack.

6.Document Resume

Document Number	
Document No.	
date	
Release Date	2025/10/11
prepared by	
Author	Hungjie
Review	
Review	WH

Document History Table

Revised History

Date	Version	Revised Record
2025/10/11	1.00	New Project