

SPECIFICATION

for

Customer No.

Product No.

YX-AN-2.4-5.8G camera-V1.0

Author: XiaofengZeng Review: Wenshihao

Release Date: 2025.05.07

ShenZhen yixin Electronic Technology Co., Ltd

**1212, Block A, Huafeng Headquarters Economic Building, 288 Xixiang
Avenue, Xixiang Street, Bao'an District, Shenzhen**

E-mail: 1791995010@qq.com

Tel: 17898458992

Contents

SPECIFICATION	1
SHENZHEN YIXIN ELECTRONIC TECHNOLOGY CO., LTD	1
CONTENTS	2
1. BILATERAL CONFIRMATION PAGE	3
2. GENERAL	4
3. GENERAL PRODUCT SPECIFICATIONS	4
4. SPECIFICATION DETIALS	5
4.1 MECHANICAL PROPERTIES	5
4.2 ELECTRIC PERFORMANCE	7
5. PRODUCT PACKAGING	9
6. DOCUMENT RESUME	12

1. Bilateral Confirmation page

1.1 Customer signature

Customer: Woan Technology (Shenzhen) Co., Ltd

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

1.2 Signature of ShuoDian 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	camera
2	Operating Frequency Band	2400-5900MHZ
3	VSWR	≤ 2.1
4	Impedance	50Ω
5	Antenna Type	PIFA
6	Polarization mode	FPC
7	Entity Picture	

4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

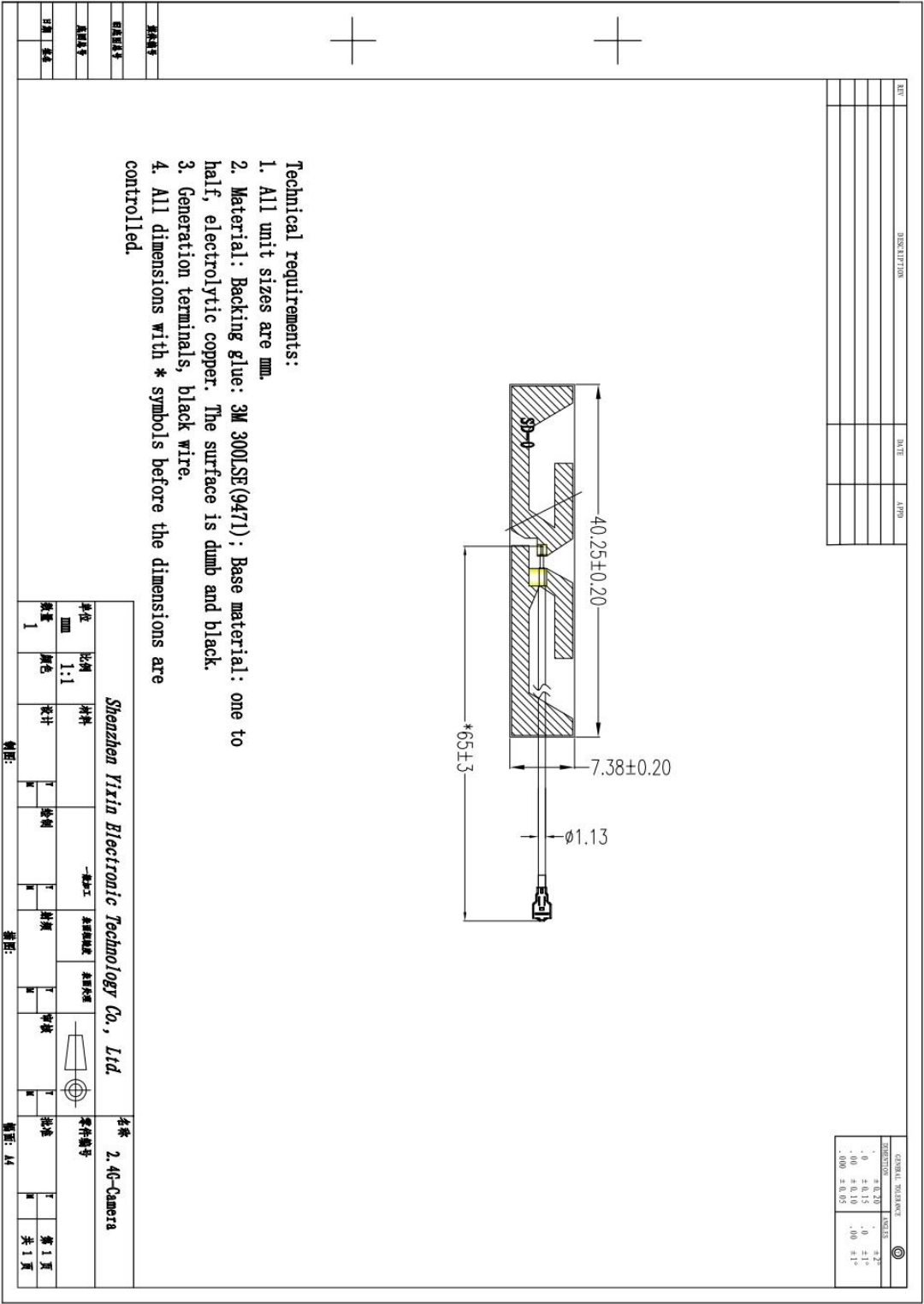
4.12 Apperance

Good appearance without scars 、dirts、protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Refer to product drawings:

Product drawings:



4. 2 Electric Performance

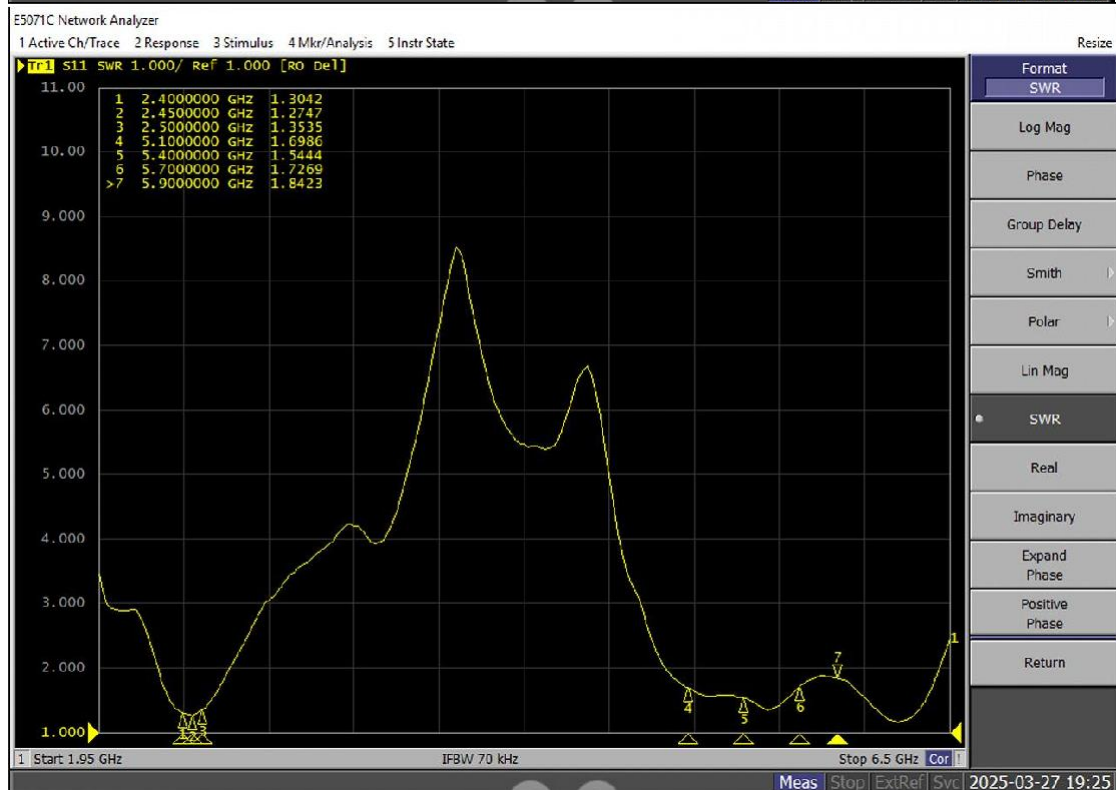
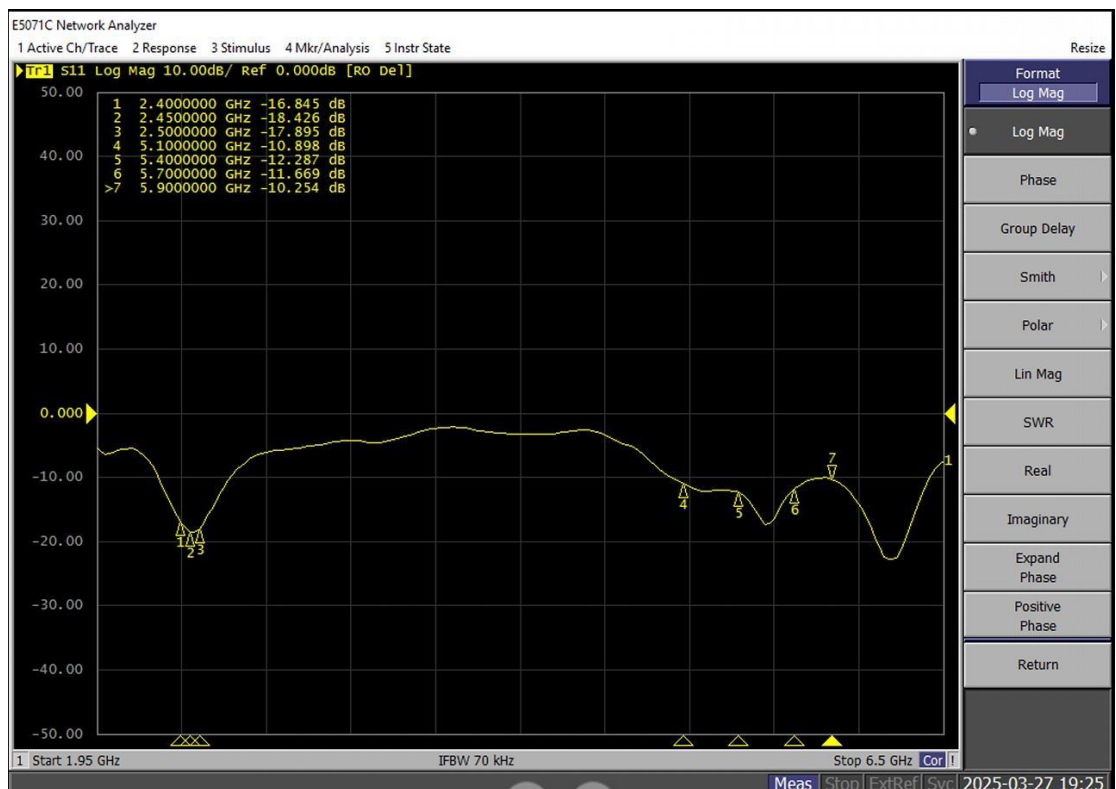
4. 21 Test condition

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 (MHz)	2400	2500	5100	5400	5700	5900
Returnloss	-16.48	-17.89	-10.89	-12.28	-11.66	-10.25
VSWR	1.30	1.35	1.69	1.54	1.72	1.84

4.22.1 S11 of the Antenna:

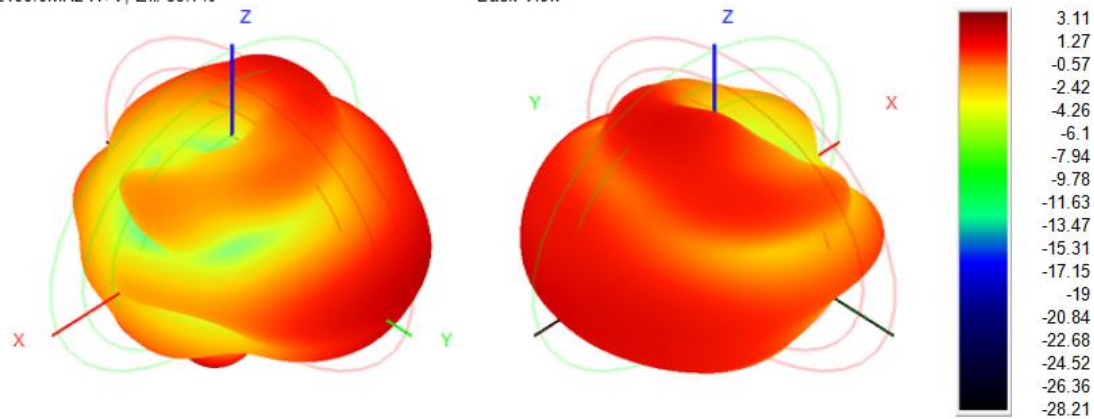


4.22.3 Radiation pattern of antenna, frequency: 2400-5900MHz

Freq. (MHz)	Gain (dBi)	Efficiency (%)
2400.0	3.11	39.69
2450.0	2.88	35.10
2500.0	2.71	32.31
5100.0	3.35	51.01
5400.0	3.55	59.50
5700.0	3.81	56.45
5900.0	3.20	52.78

2400.0MHz H+V, Eff. 39.7%

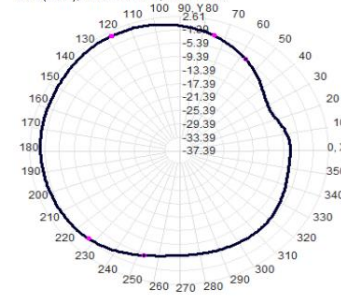
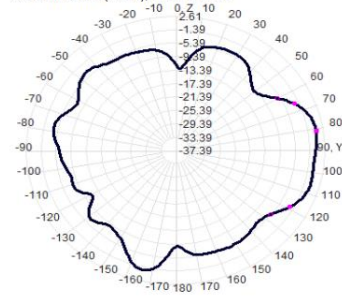
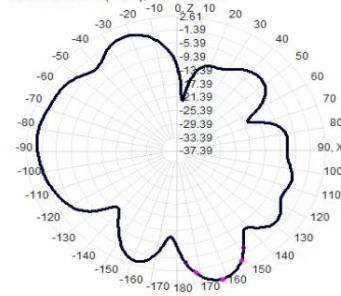
Back View



2400.0MHz Total(E1-XZ), Max= 2.61dBi

2400.0MHz Total(E2-YZ), Max= 0.44dBi

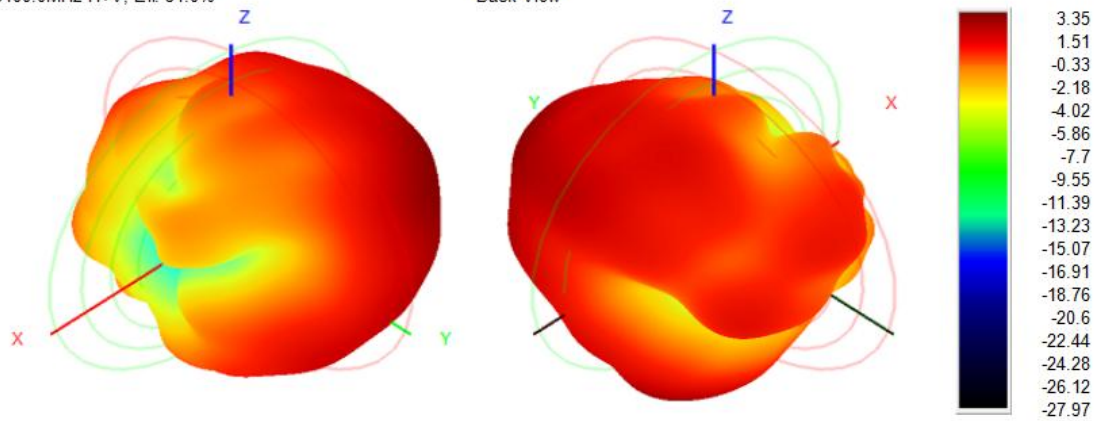
Total(H-XY), Max= 1.21dBi, CirD=11.56



Page number 10-10

5100.0MHz H+V, Eff 51.0%

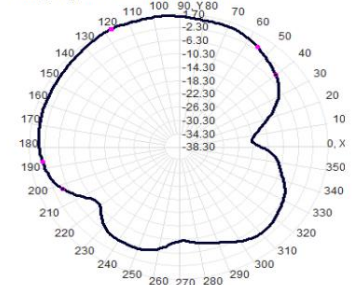
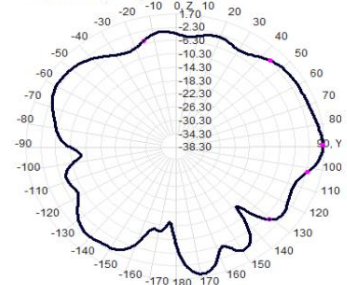
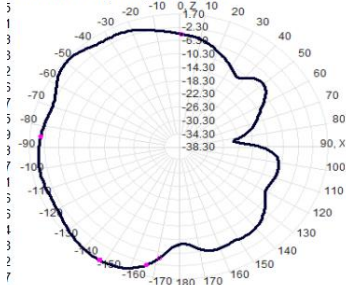
Back View



5100.0MHz Total(E1-XZ), Max= 1.70dBi

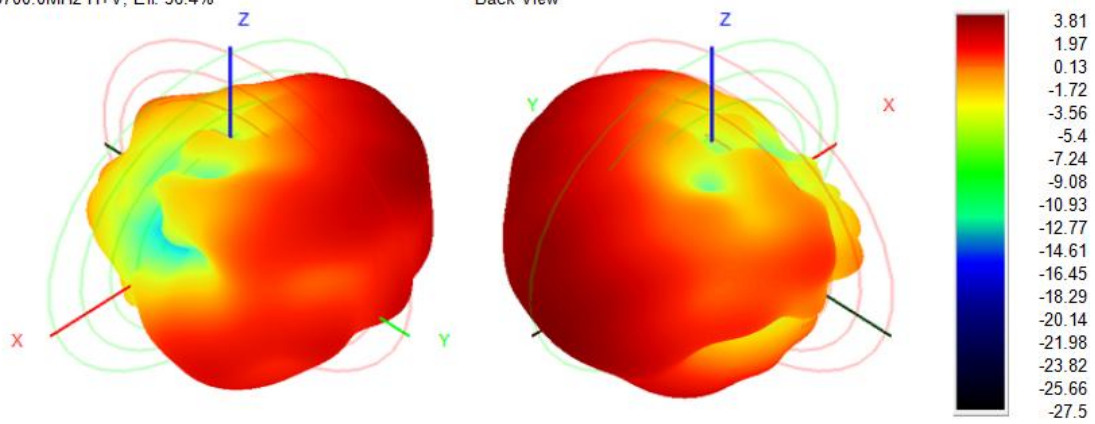
5100.0MHz Total(E2-YZ), Max= 0.94dBi

Total(H-XY), Max= 1.45dBi, CirD=20.27



5700.0MHz H+V, Eff 56.4%

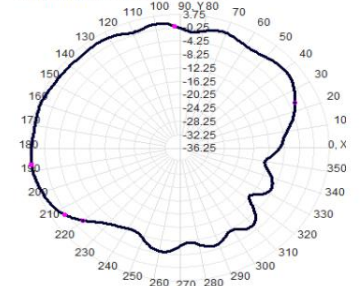
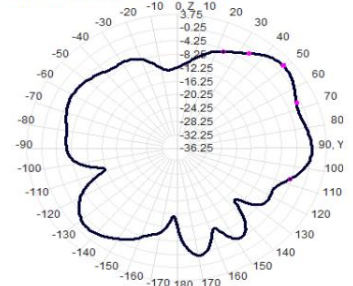
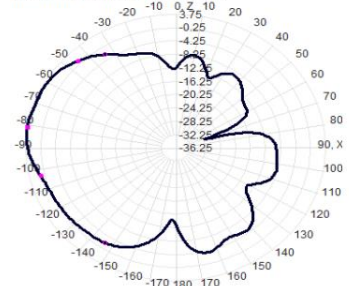
Back View

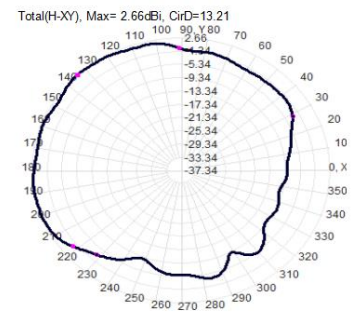
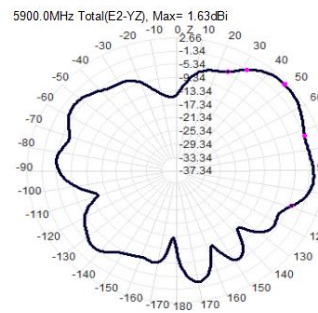
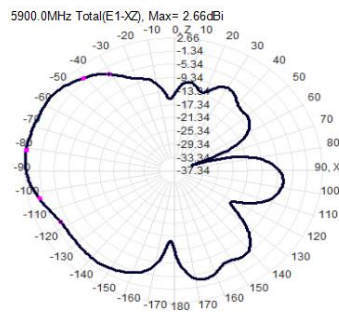
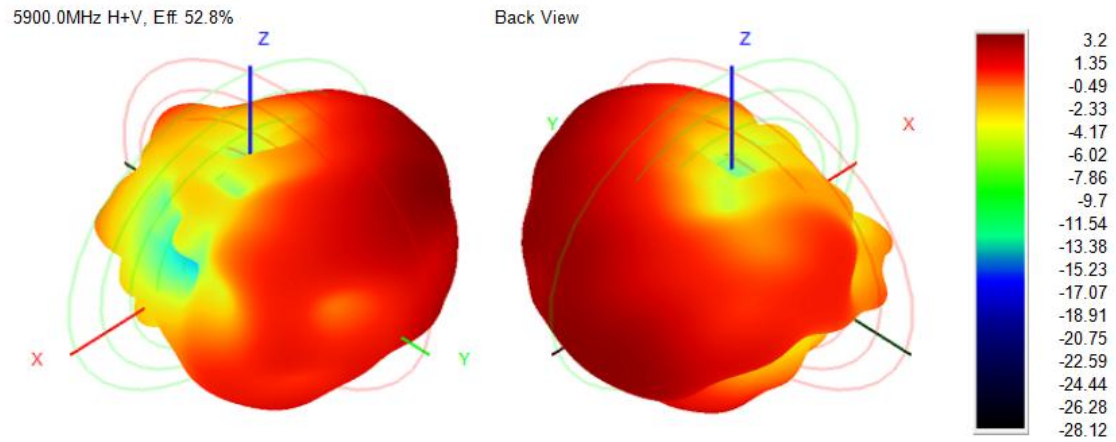


5700.0MHz Total(E1-XZ), Max= 3.75dBi

5700.0MHz Total(E2-YZ), Max= 1.26dBi

Total(H-XY), Max= 3.39dBi, CirD=16.68





5. Product Packaging

Manner of packing:

Packed in self sealed bags, 50 pcs each.

6. Document Resume

Document No.	
Release Date	2023/8/23
Author	XiofengZeng
Review	WH

Revised History

Date	Version	Revised Record
2025/05/07	1.00	New Project