

嘉兴佳利电子有限公司

JIAXING GLEAD ELECTRONICS CO., LTD.

天线承认书

客户	东集技术股份有限公司		
客户编码			
产品机种	R108_UHF_ANT-16-2_V1		
产品料号	----		
产品类型	内置RFID天线		
工作频段	902-928MHz		
发行日期	2023-07-06		
发行版本	A		
作者	天线工程师	结构工程师	
	任术刚	王勇	
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审阅	研发部	项目部	品质部

客户签章确认

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SPECIFICATION FOR APPROVAL

CUSTOMER :

CUSTOMER PART NO:

SUPPLIER: JIAXING GLEAD ELECTRONICS CO.,LTD.

SUPPLIER PART NO: R108_UHF_ANT-16-2_V1

DESCRIPTION: RFID/80x80x16mm/915MHz/MMCX/12mm

REMARKS:



Customer Signature :	Customer Seal:
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Supplier Signature:	Supplier Seal :
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NOTE: Please return this copy as a certification of your approval !

Prepared by:	Formed On:	Add	No.66 ZhengyuanRoad,Tanghui Industrial Zone, Jiaying, Zhejiang, China
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VERSION	DATE	REVISION DESCRIPTION	PREPARED	CHECKED	APPROVED
V1.0	2023/07/06	NEW ISSUED	Ren Shugang	Cao Xuekang	Gao Sheng


CUSTOMER APPROVED

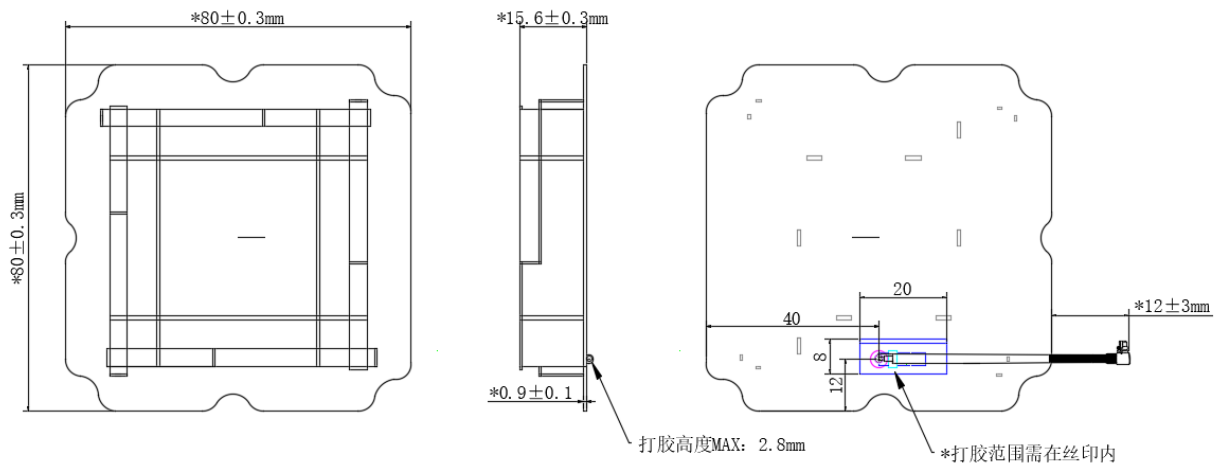
Quality Dept.	Production Dept	Technology Dept
Name:	Name:	Name:
Tel:	Tel:	Tel:
E-mail:	E-mail:	E-mail:

GLEAD APPROVED

Quality Dept	Production Dept	Technology Dept
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PRODUCT SPECIFICATION

一、Electrical Characteristics		
Antenna		
1	Antenna model	80mm*80mm*16mm
2	Frequency Range	902-928MHz Center: 915MHz (With Plastic Shell)
3	V. S. W. R	1.6:1
4	Center Frequency	915MHz
5	Band Width (Half-Power)	≥ 26MHz
6	Impedance	50 ohm
7	Gain(Typical)	≥3.1dBic
8	Polarization	RHCP
9	Axial Ratio	≤3.0
10	Weight	≤30g
二、Material		
No	Part Name	SPEC
1	Antenna	Sheet Iron
2	PCB	High Frequency Board
3	RF Cable(Typical)	RF1.13mm (L=52mm)
4	RF Connector	MMCX-JW3
三、Testing Conditions		
1	Working Temp	-40℃--+85℃
2	Storage Temp	-40℃--+85℃
四、Notes		
Electrostatic sensitive device, Observe precautions for handling.		
五、Structure		



备注:

- 1、带“*”号为必检尺寸，其它为指示尺寸默认公差 $\pm 0.5\text{mm}$ ，仅作为参考；
- 2、打胶范围需在丝印内。

六: Packing

Each carton includes 50 PCS antenna, Each lattice put 1PCS antenna, the size of carton is $630 * 465 * 105\text{ mm}$.



Description: picture is only for reference

七: Directional diagram

1、 Test Items:

Efficiency、 Antenna GAIN、 Axial Ratio

2、 Test Instrumentation:

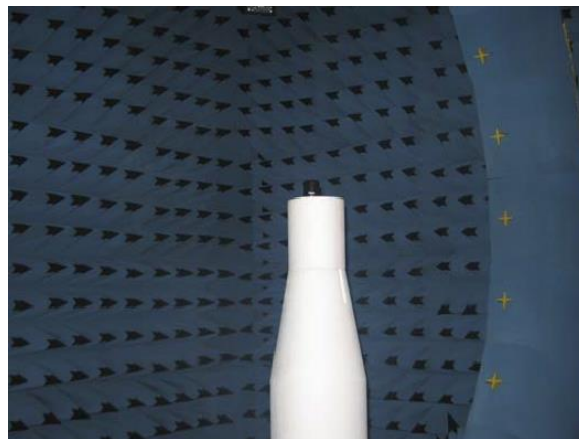
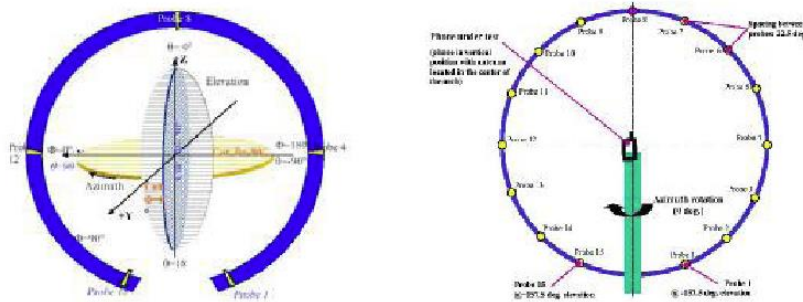
Network Analyzer : Agilent 5071C

Microwave anechoic chamber

Test frequency : 902-928MHz

3、 Testing Environment:

Temperature: 25.3°C **Humidity :** 40.2%

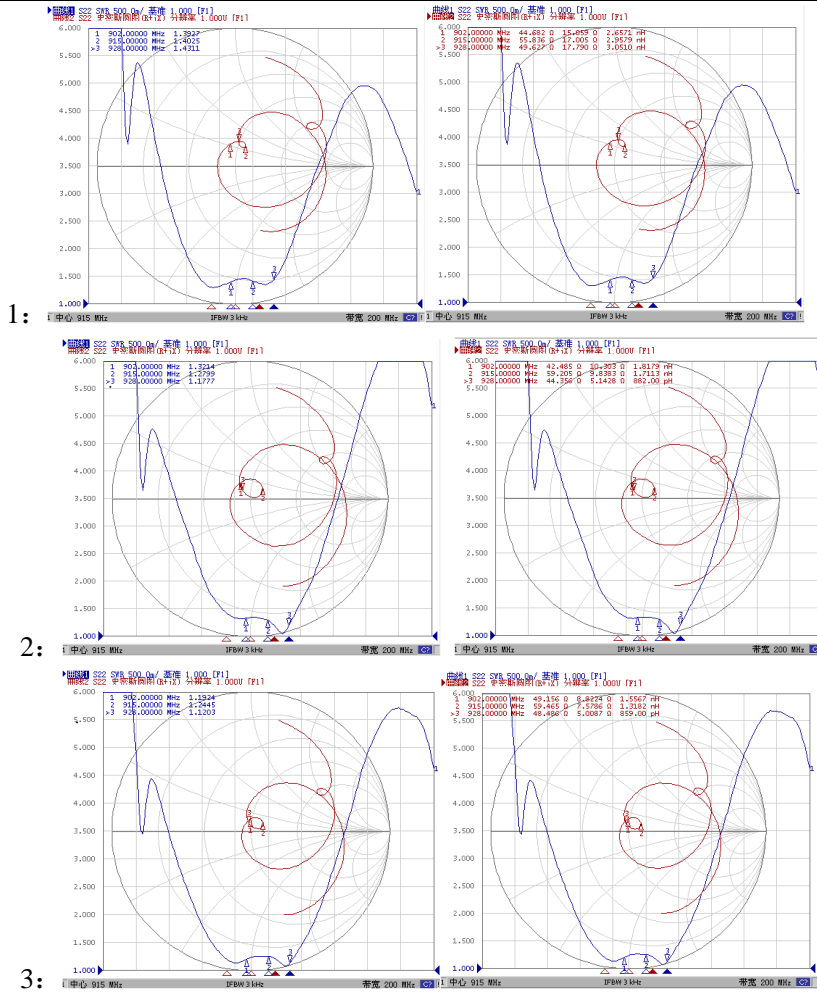


1. Test Results:

注: 1 号为下限样品, 2 号为标准样品, 3 号为上限样品。

VSWR 及电抗虚部

Freq. (MHz) 编号	902	915	928
1	1.4, 2.7nH	1.4, 3.0nH	1.4, 3.0nH
2	1.3, 1.8nH	1.3, 1.7nH	1.2, 0.9nH
3	1.2, 1.6nH	1.2, 1.3nH	1.1, 0.9nH



Efficiency

Freq. (MHz) 编号	902	915	928
1	85%	84%	84%
2	85%	84%	84%
3	85%	84%	83%

Axial Ratio

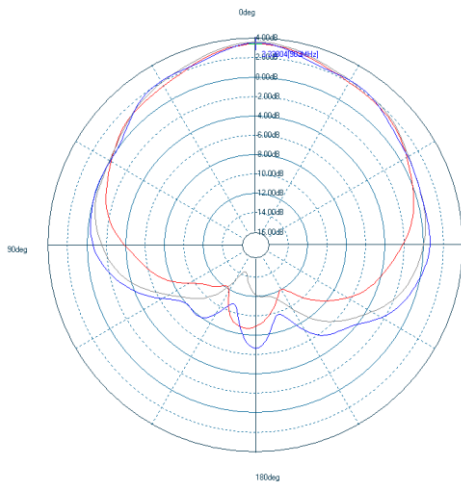
Freq. (MHz) 编号	902	915	928
1	2.6	2.1	2.8
2	2.6	2.1	2.8
3	2.5	1.8	2.8

Antenna GAIN

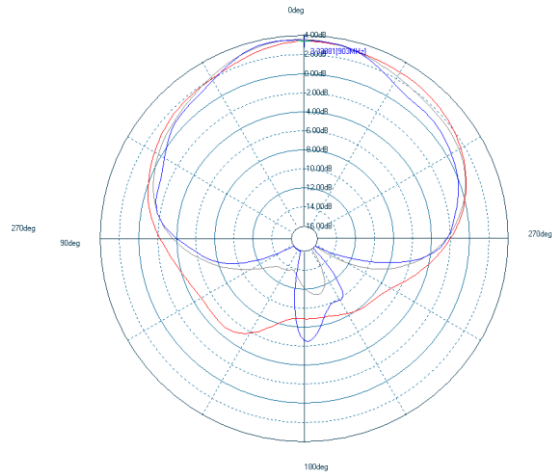
Freq. (MHz) 编号	902	915	928
1	3.4	3.5	3.3
2	3.4	3.6	3.3
3	3.4	3.5	3.2

radiation pattern

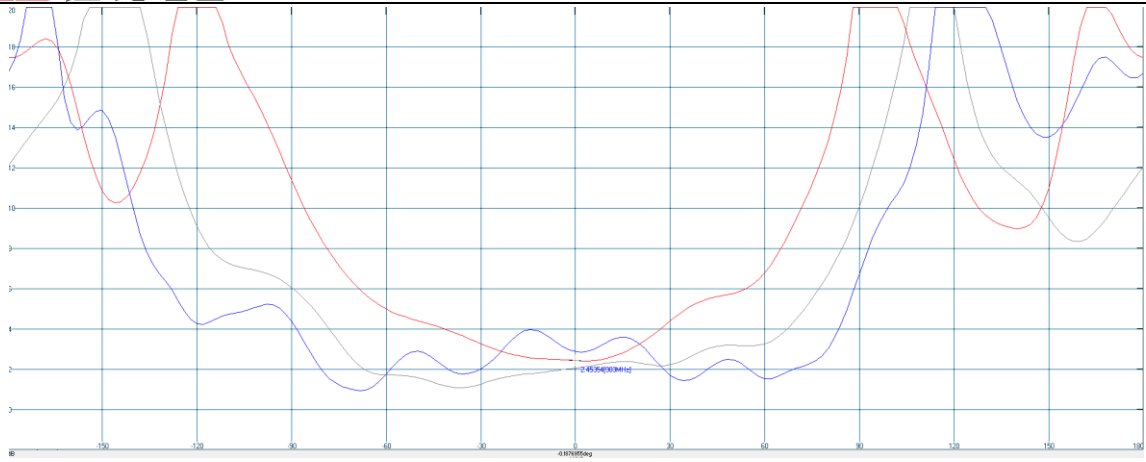
1 号



PHI=0°

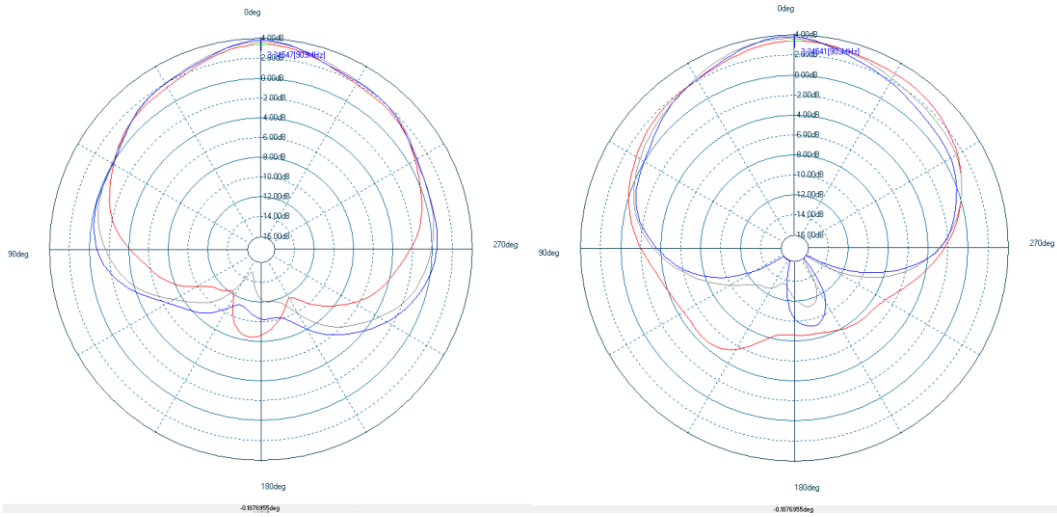


PHI=90°



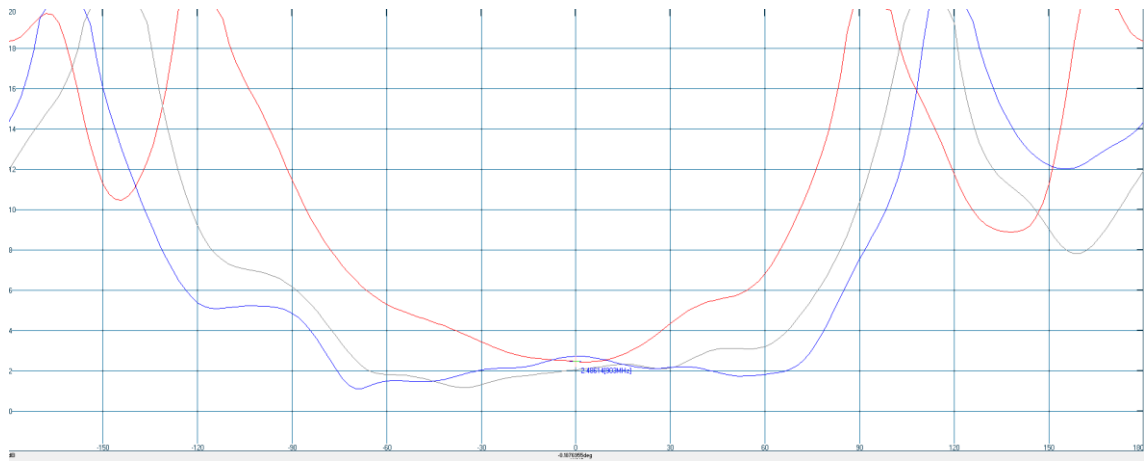
Axial Ratio(dB)

2 号



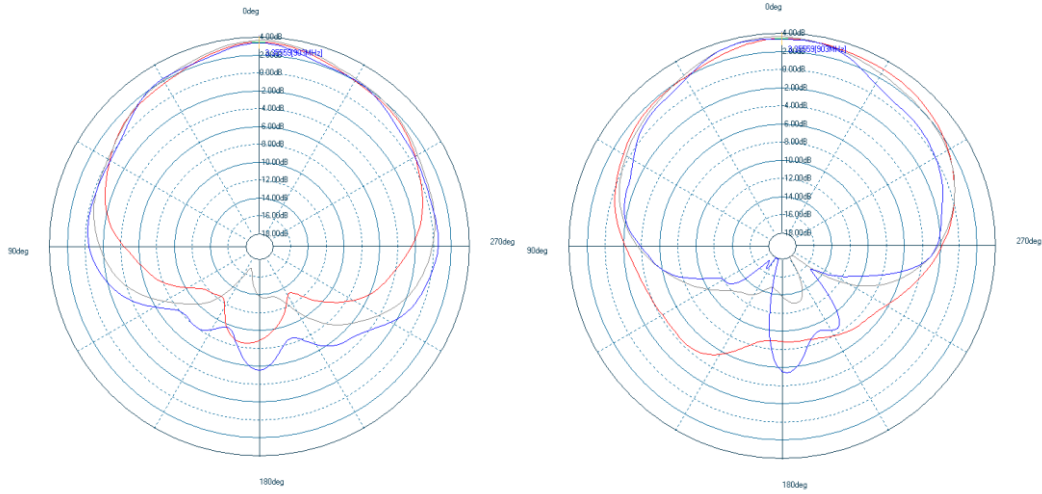
PHI=0°

PHI=90°



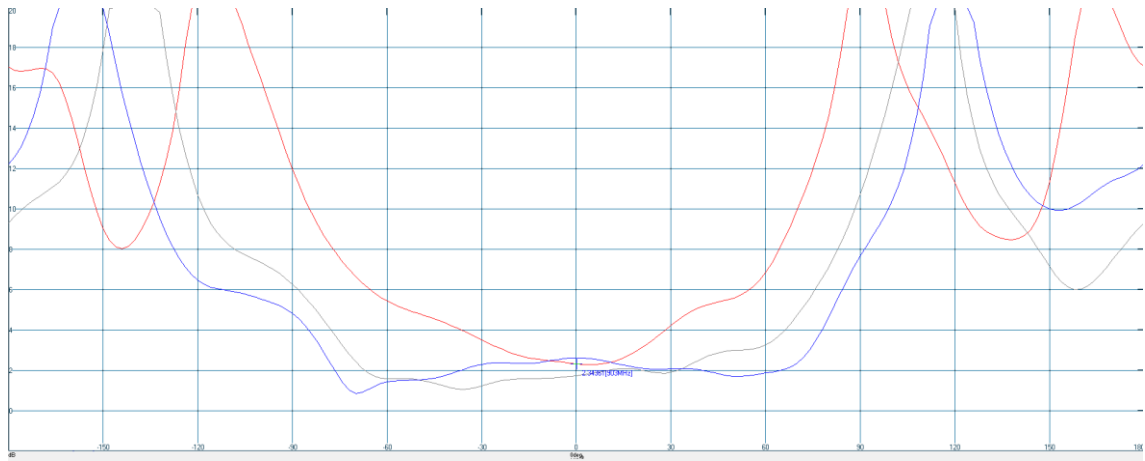
Axial Ratio(dB)

3 号



PHI=0°

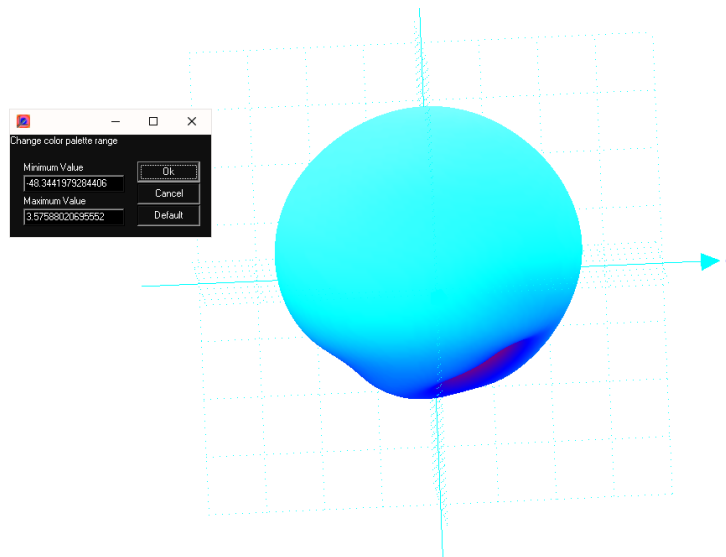
PHI=90°



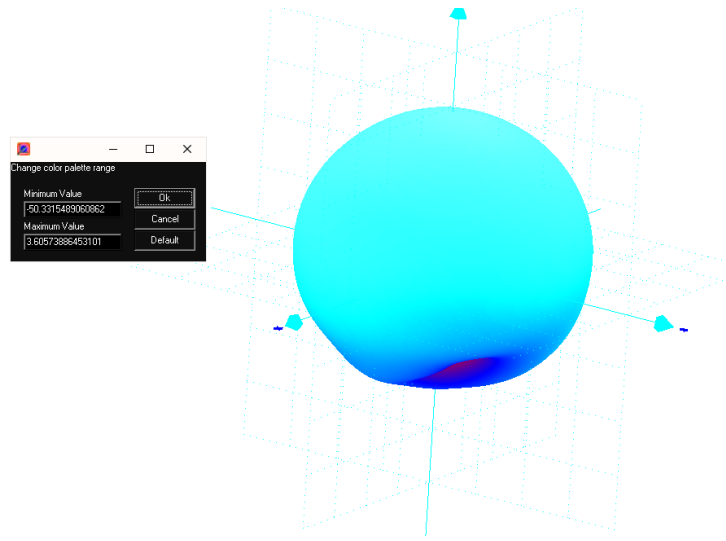
Axial Ratio(dB)

3D pattern

1 号



2 号



3 号

