

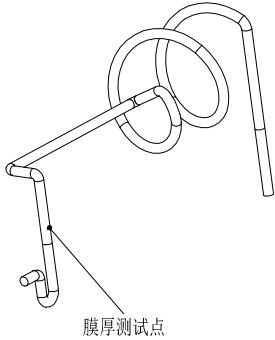
1. Antenna Specification/天线标准

Antenna Specification/天线技术参数		
Electrical Specification/电气特性		
Item/目录	Specification/规格	Comment/备注
Freq. Range/频段范围	860-940 (MHz)	
Impedance/阻抗	50 (Ω)	
VSWR/驻波比	≤ 2.5	
Directional/辐射方向	Omni directional	
Polarization/极化形式	Vertical	
Peak Gain/峰值增益	1.90 (dBi)	
Test condition/测试条件	Passive test (无源测试)	
Total Efficiency/无源效率	$\geq 35\%$	
Mechanical Specification/机械指标		
Antenna type/天线类型	内置天线	
Connector Type/连接器类型	N/A	
RF Cable Type/射频线型号	N/A	
Connector Torque Test/连接器扭力	N/A	
Connector Pull Test/连接器拉力	N/A	
Salt Spray/盐雾测试	48H	
Environmental Specification /环境指标		
Operating temp/工作温度	-40°C ~ +80°C	
Storage temp/存储温度	-40°C ~ +85°C	

2. Antenna Picture/天线图片

文档密级：
商业秘密

REV.	ECN NUMBER	DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
X1	ECN240972	初版发行	02/29'24	刘晓峰	丁第斌	牛宝星

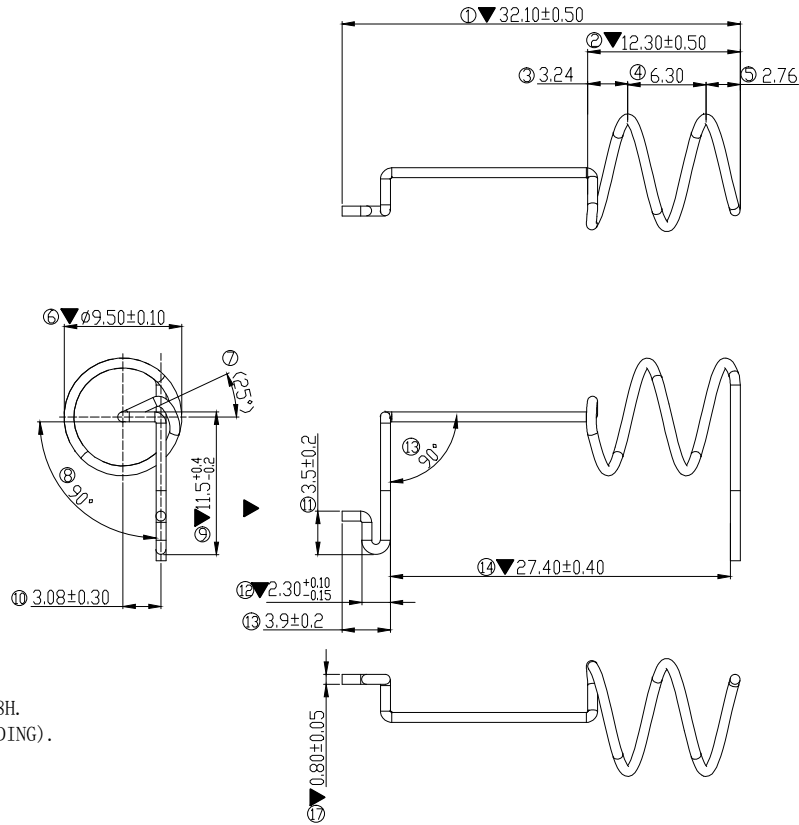


注：

1. 材质：不锈钢SUS304。线径 $\varnothing 0.8\text{mm}$ 。
2. 表面处理：预镀镍80u"最低，过盐雾48H。
具有良好的可焊接性，需要进行粘锡测试（锡焊）。
3. 外观要求：不能有明显的外观缺陷，无毛刺、刮手；周边平整无变形，未注尖角倒钝。
4. 请以试装作参考，未标注尺寸之特征见3D。
5. 标有“▼”为QC重点检测尺寸。
6. 环保要求：RoHS&REACH(最新版本)。

NOTE:

1. MATERIAL: STAINLESS STEEL SUS304. WIRE DIAMETER $\varnothing 0.8\text{MM}$.
2. SURFACE TREATMENT: PRE-NICKEL PLATING 80U" MINIMUM, SALT SPRAY 48H.
IT HAS GOOD WELDABILITY AND REQUIRES A TIN BONDING TEST (TIN WELDING).
3. APPEARANCE REQUIREMENTS: NO OBVIOUS APPEARANCE DEFECTS,
NO BURRS, SCRATCHES; PERIPHERAL LEVELHERE IS NO DEFORMATION,
AND NO SHARP CORNERS ARE BLUNTED.
4. PLEASE REFER TO THE TRIAL INSTALLATION. SEE 3D FOR FEATURES
NOT MARKED WITH DIMENSIONS.
5. MARKED WITH "▼" FOR QC KEY DETECTION SIZE.
6. ENVIRONMENTAL REQUIREMENTS :ROHS&REACH(LATEST VERSION).



a	弹簧	1	G3 hybrid弹簧，线径0.8mm，SUS304预镀镍
ITEM	PART NAME	Q'TY	MATERIAL / FINISH
	600-V685-01		ANT_IN_0000_SUS304_Ni_G3 hybrid
	PARTS NO.(INTENDED USE):		CUSTOMER DRAWING
	81800V685		
TITLE:			REV.
			X1
			SHEET:
			1/1



ELECTRIC
CONNECTOR
TECHNOLOGY

GENERAL TOLERANCE

X,± 0.30 XXX,°± 3°

,X± 0.20 XX,°± 2°

,XX± 0.15

SCALE:

1:1

UNIT:

mm

SIZE:

A4



DRAWN:

刘晓峰

CHECK:

APPROVE:

DATE:

02/29'24

DATE:

DATE:

DATE:

DWG.NO:

600-V685-01

PARTS NO.(INTENDED USE):

81800V685

TITLE:

ANT_IN_0000_SUS304_Ni_G3 hybrid

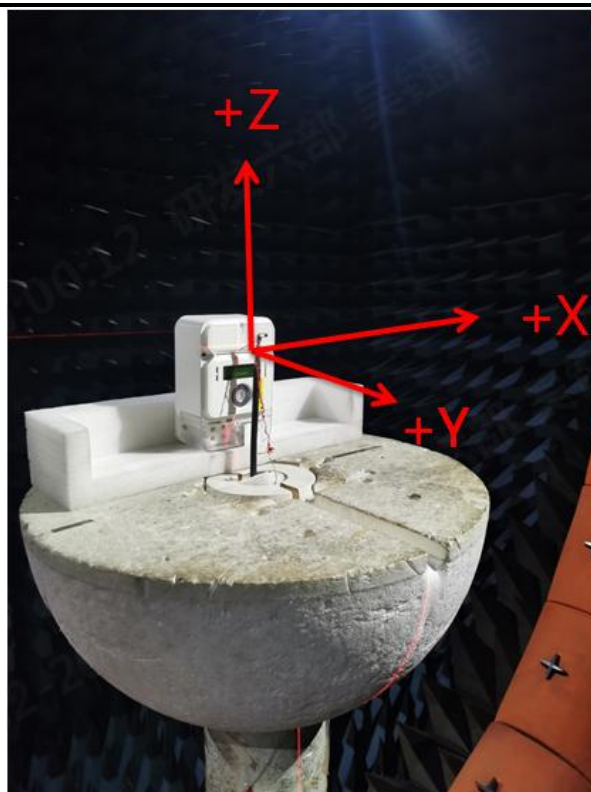
CUSTOMER DRAWING

REV.

X1

SHEET:

1/1



The production test position/天线测试放置位置

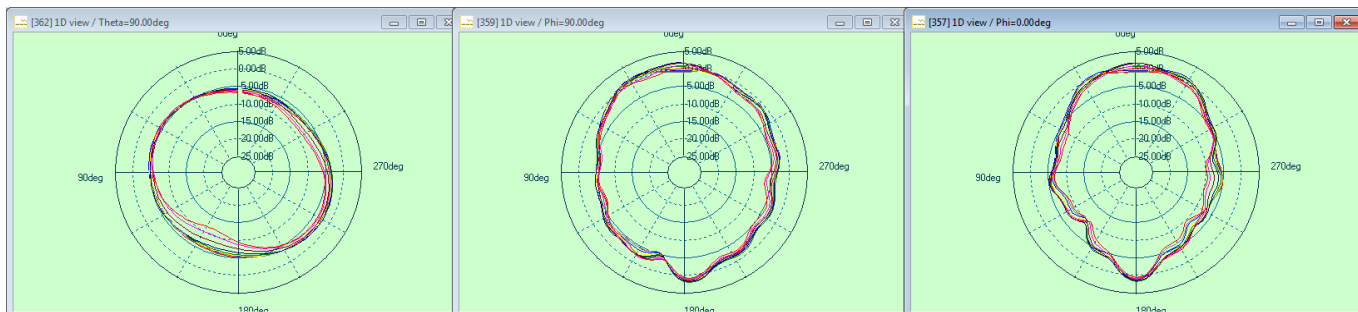
5.2.2 The test result of total efficiency and total gain/天线效率及增益测试结果

860MHz-940MHz

Frequency	Efficiency (%)	Gain(dBi)
860MHz	40%	1.08
870MHz	43%	1.29
880MHz	46%	1.64
890MHz	46%	1.58
900MHz	45%	1.90
910MHz	46%	1.69
920MHz	41%	1.41
930MHz	37%	1.14
940MHz	36%	0.66
AVG	42%	1.38

5.2.3 The antenna radiation pattern(2D)/天线辐射方向图 (2D)

860MHz-940MHz



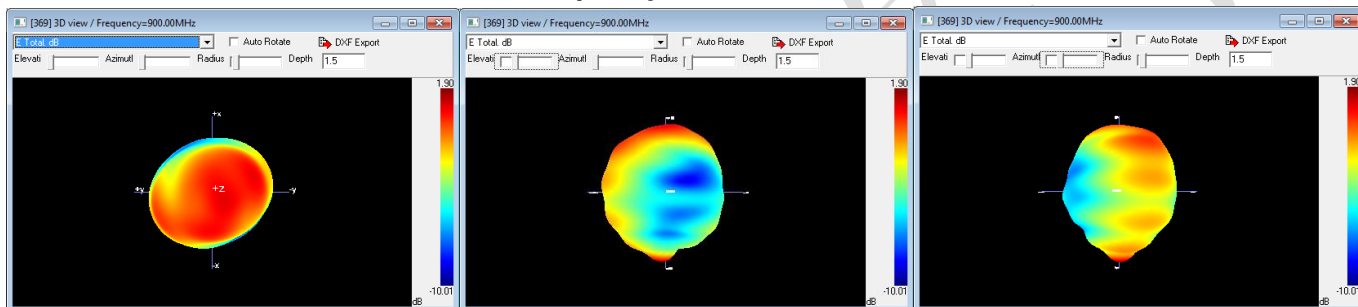
XOY

YOZ

XOZ

5.2.4 The antenna radiation pattern(3D)/天线辐射方向图 (3D)

Frequency/频点 900MHz



XOY

YOZ

XOZ