

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

CUSTOMER(客户名称)	Tianjin HualTechnology Co., LTD
CS P/N(客户机种)	网关 (A304-029F)
PART NAME(品名)	WIFI Antenna
FREQUENCY(频率)	2.4G~2.5G
ZTX NO.(物料编号)	2.00004878
DATE(日期)	2021-01-22

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章): _____

ZHONG TIAN XUN TECHNOLOGY CO., LTD				
MANAGE CHECKE	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Liuli ping	Zou yi	



深圳市中天迅通信技术股份有限公司

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ANTENNA SPECIFICATION

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Revision history

NO	Date	State
A1	2022-01-22	The first edition



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ANTENNA SPECIFICATION

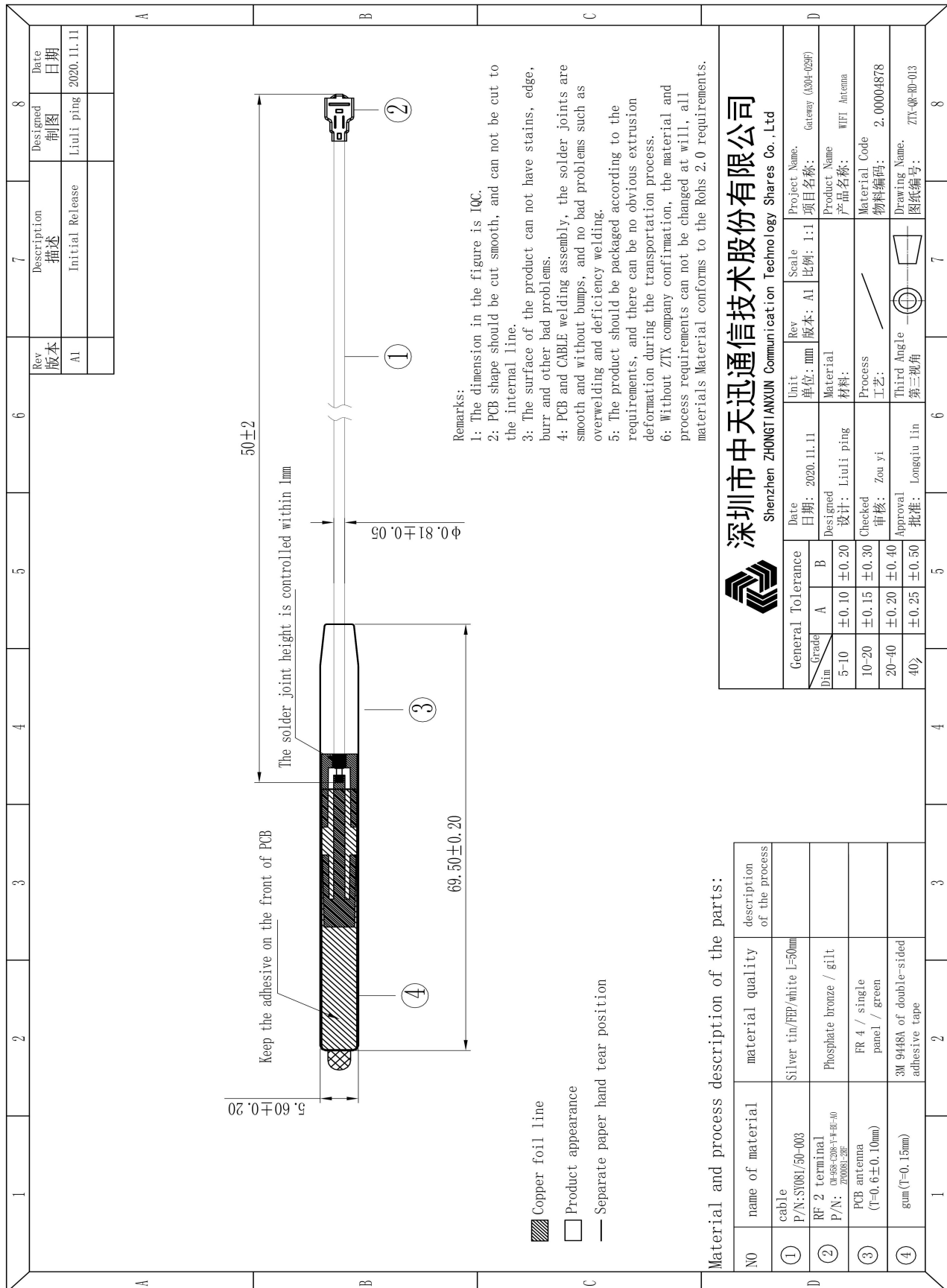
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1. Mechanical Specification

1-1 Mechanical Configuration (WIFI Antenna)



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Shenzhen ZHONGTIANXUN Communication Technology Shares Co., Ltd

General Tolerance	Date	Unit	Rev	Scale	Project Name
Grade	日期: 2020.11.11	单位: mm	版本: A1	比例: 1:1	项目名称: Gateway (A304-029F)
Dim	Designed	Material			Product Name
5-10	设计: Liuli ping	材料:			产品名称: WIFI Antenna
10-20	Checked	Process			Material Code
20-40	审核: Zou yi	工艺:			物料编码: 2.00004878
40>	Approval	Third Angle			Drawing Name.
	批准: Longqiu lin	第三视角			图纸编号: ZTX-QR-00-013

ANTENNA SPECIFICATION

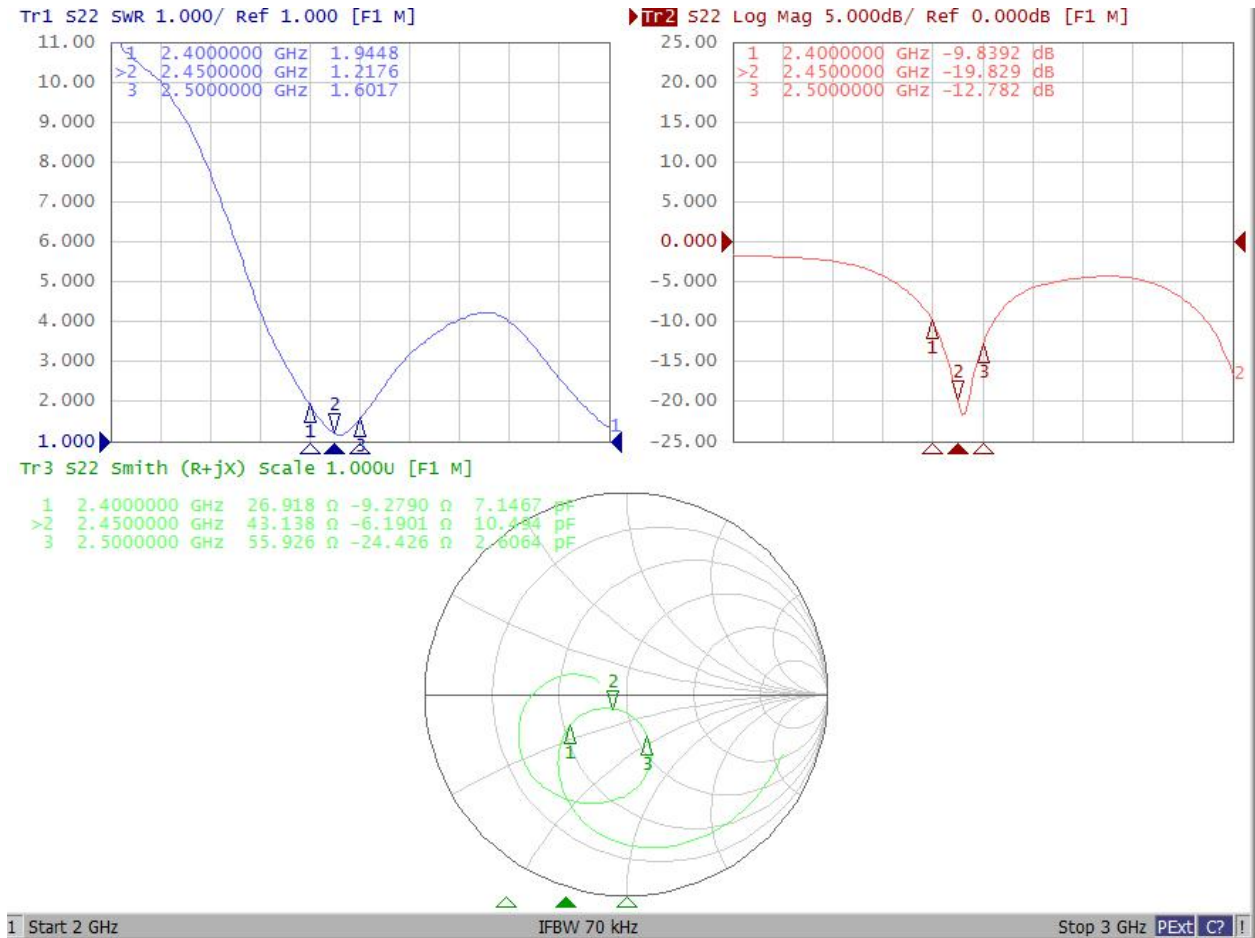
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2. Antenna test data

2-1 VSWR&Return loss plot&Smith Chart



2-2 No-source test data

Frequency	Efficiency	Efficiency (dB)	Gain (dB)
2400	66%	-1.8	1.6
2410	66%	-1.8	1.8
2420	66%	-1.8	1.9
2430	67%	-1.8	2.1
2440	68%	-1.6	1.9
2450	67%	-1.7	1.9
2460	66%	-1.8	1.9
2470	67%	-1.8	2.1
2480	65%	-1.9	2.2
2490	63%	-2.0	2.2
2500	62%	-2.1	2.2



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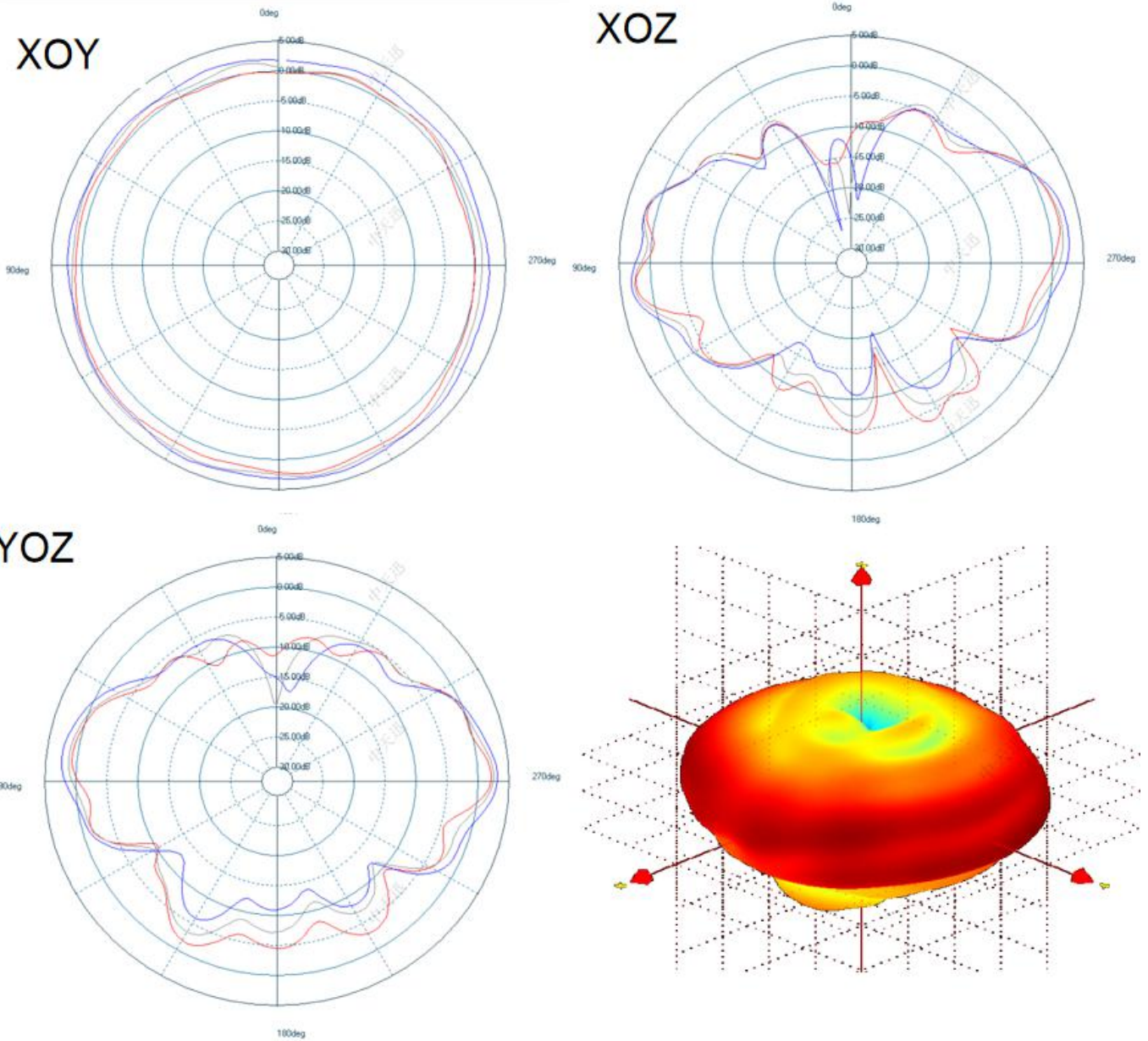
2-3 Matching circuit

N/A

2-4 Environment treatment

N/A

2-5 2D/3D Radiation Pattern Results



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4.Salt-Spray test

customer name	Tianjin Hualai	product name	Gateway (A304-029F) WIFI Antenna	date	2020/11/11
Product material	RF 2 terminal	proving time	48H	quantity	5PCS
time quantum	test condition	test criteria		bear fruit	Remarks
0-6 Hours	<p>Salt spray tester: salt liquid: NaCl (no water); concentration 5% ± 1%; pH value: 6.5~7.2; laboratory temperature: 32-38°C; compressed air pressure: 1.0 ± 0.01 (KG / M2) Spray amount: 1.0~2.0ML/80CM2/H. Relative humidity: 85% ± 2%; placement angle of test product: 30 degrees + / -10 degrees; salt spray duration: 48h,</p>	<p>Product surface without rust point, oxidation, corrosion, coating (coating) layer off and other adverse phenomena</p>		OK	2020. 11. 09 16:00 AM beginning
6-12 Hours					
12-18 Hours					
18-24 Hours					2020. 11. 11 16:00 AM stop
24-30 Hours					
30-36 Hours					
36-42 Hours					
42-48 Hours					
More than 48 hours					
conclusion	Salt Spray Test OK				
test clerk	Li Qingli	examine and verify	Yi Ailing	Ratify	Hu Chunmei



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5.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
5-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: +70 ±2℃ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
5-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: -30±2℃ 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.

