

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

CUSTOMER(客户名称)	Tianjin HualTechnology Co., LTD
CS P/N(客户机种)	DWS3 U-V2 door magnetic (A304-032F)
PART NAME(品名)	WIFI Antenna
FREQUENCY(频率)	906.8-913.2MHz
ZTX NO.(物料编号)	1.03.02523
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	



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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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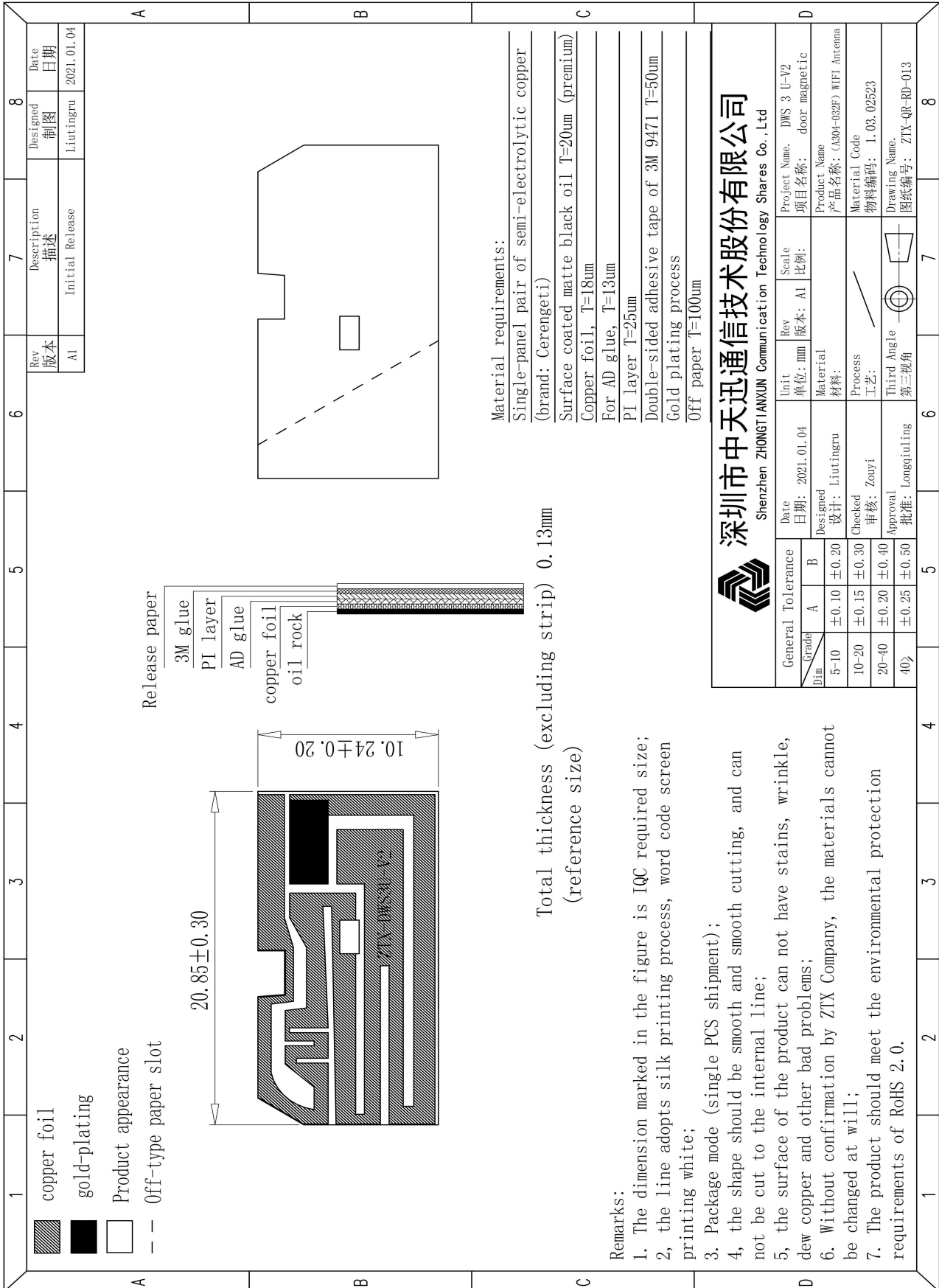
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1. Mechanical Specification

1-1 Mechanical Configuration(WIFI Antenna)



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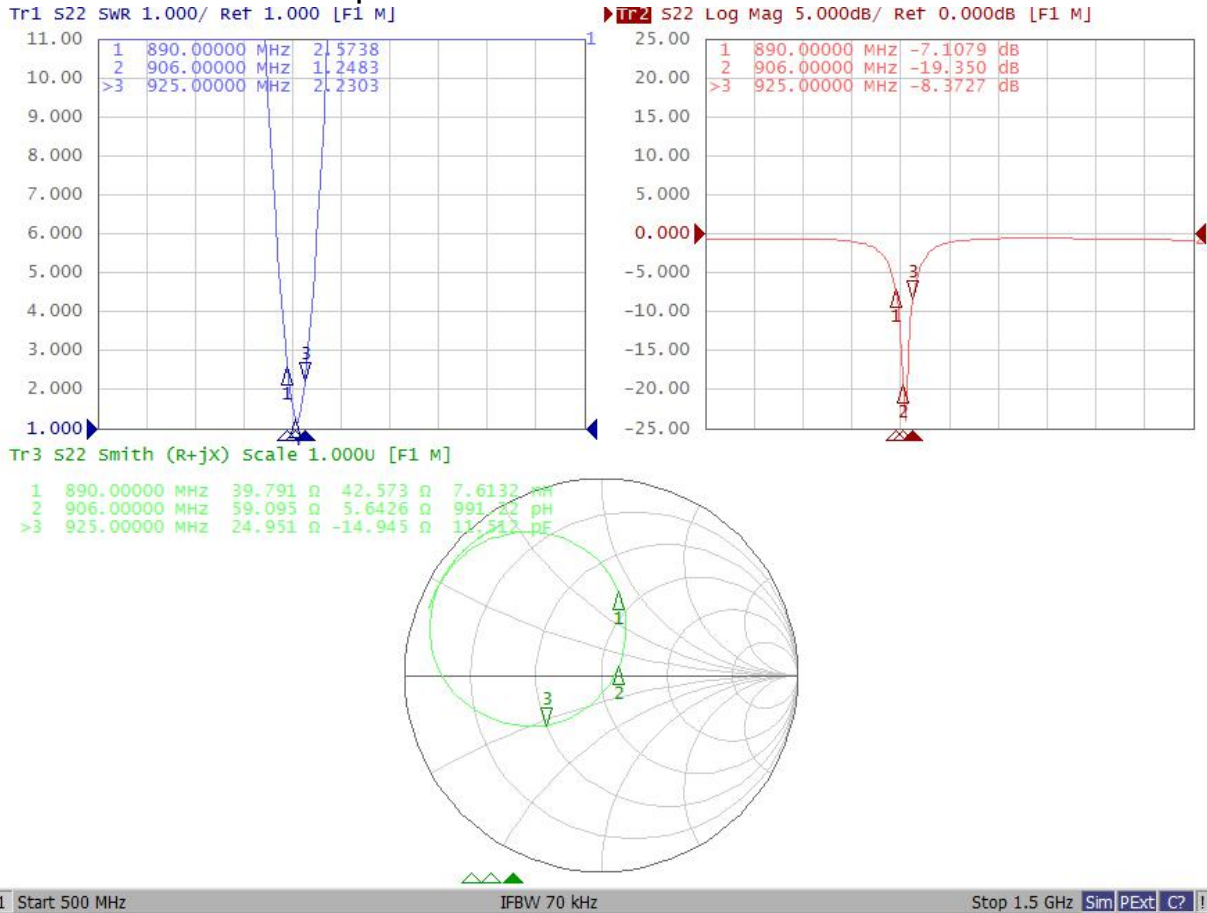
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2. Antenna test data

2-1 VSWR&Return loss plot&Smith Chart



2-2 No-source test data

Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dB)
890	17%	-7.62	0.6
900	19%	-7.11	0.6
908	20%	-7.03	0.9
910	19%	-7.11	0.8
920	17%	-7.59	0.5
930	13%	-8.81	0.5



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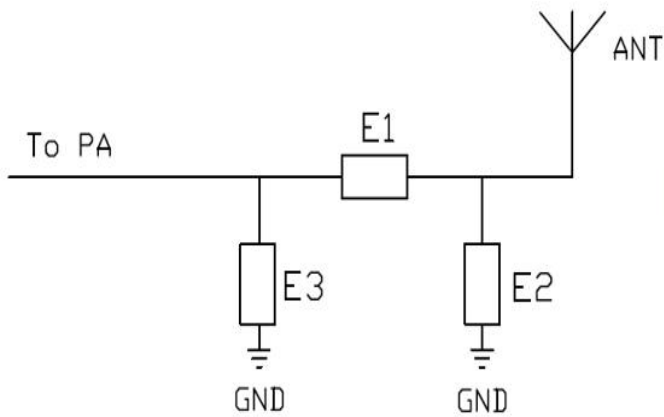
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2-3 Matching circuit



匹配说明	
E1	0Ω
E2	3.6nH
E3	NC

2-4 Environment treatment

N/A



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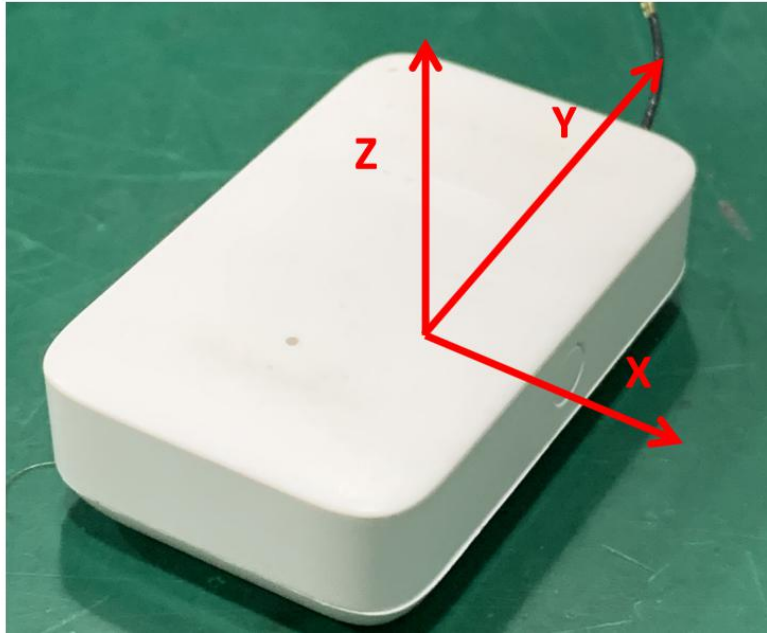
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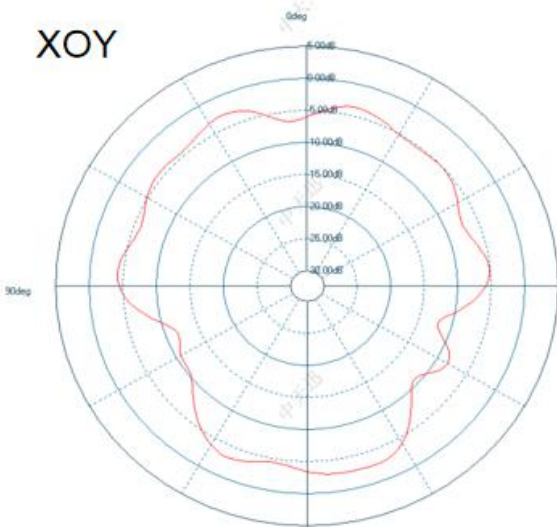
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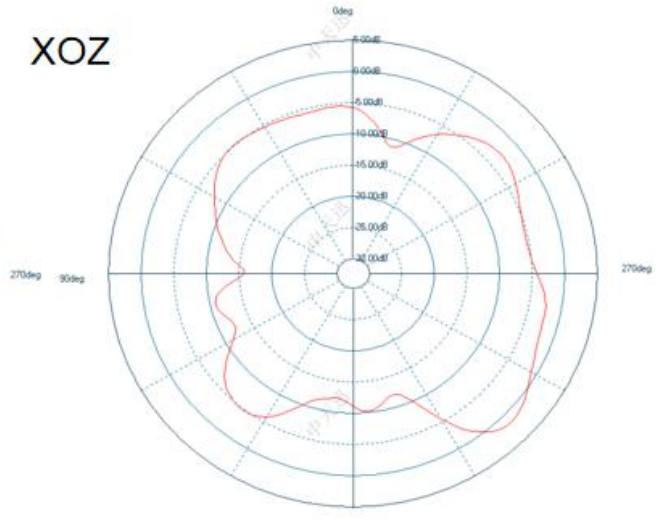
2-5 2D/3D Radiation Pattern Results



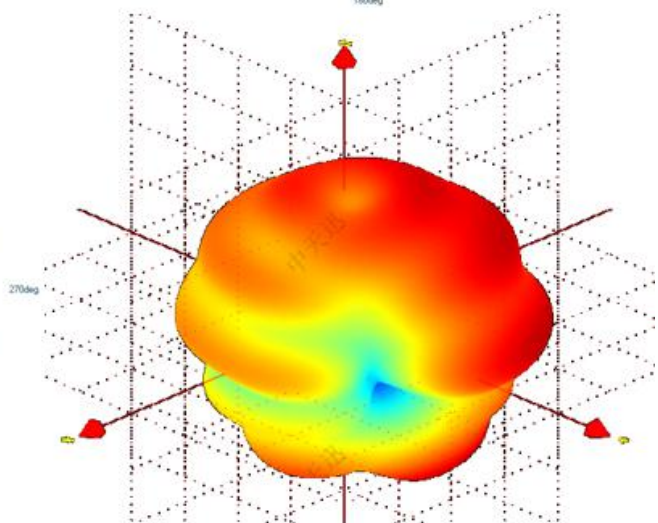
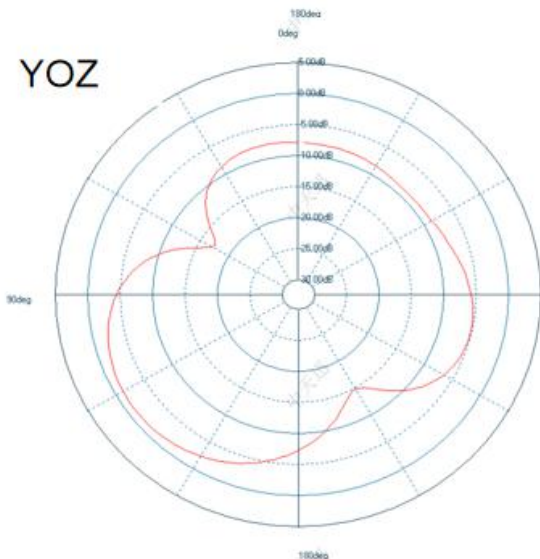
XOY



XOZ



YOZ



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3. Test Report



Sample test report

Customer name		TianJin HuaLai Technology Co., Ltd			Product name		DWS 3 U-V2 door magnetic (A304-032F) WIFI Antenna					quantity		5		
Product material		FPC			Material color		black					date		2020/11/11		
Product type: <input checked="" type="checkbox"/> Samples of new mold production <input type="checkbox"/> Sample after mold modification <input type="checkbox"/> Mass production <input type="checkbox"/> other																
NO	type	Drawing dimensioning	Upper tolerance	Lower tolerance	Actual measured size										decision	remarks
					1	2	3	4	5	6	7	8	9	10		
1		20.85	0.30	0.30	20.86	20.86	20.87	20.86	20.85						OK	
2		10.24	0.20	0.20	10.23	10.24	10.23	10.23	10.24						OK	
3		0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13						OK	
appearance: OK																
other: /																
Comprehensive judgment:: <input checked="" type="checkbox"/> OK <input type="checkbox"/> NG 核准(Approved by): Xiaohua Deng 审核(Checked by): Ailing Yi 测试(Name of operator):Lihua Li																
remarks:																

Form number :ZTX-QR-QA-016 Version: A

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4.Salt-Spray test

customer name	Tianjin Hualai	product name	DWS 3 U-V2 door magnetic (A304-032F) WIFI Antenna		date	2020/11/11				
Product material	FPC	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						<p>The product surface without rust point, oxidation, corrosion, coating (coating) layer off 1% of the product area</p>				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°C 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°C 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.

