

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A4)

	CUSTOMER(客户名称)	新大陆	
	CS P/N(客户机种)	N950S	
	PART NAME(品名)	3in1	
	FREQUENCY(频率)	1575MHz, 2400-2500MHz。	
	ZTX NO.(物料编号)	E.03.00972	
	DATE(日期)	2024-5-16	

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				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		胡小良	谭辉	



福州中天迅通信技术有限公司

ZHONGTIAN XUN Communication Technology Co.,Ltd.

总部地址:深圳市宝安区石岩街道石龙大道 34 号 (原腾达工业园) 邮编: 518000

福州地址: 福建省福州市仓山区金山工业区桔园洲园 45 号楼 2 层 SC02 单元 邮编: 350000

电话: 0591-83582969

传真: 0591-83583660

<http://www.chinaztx.com>

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Revision history

版本	日期	状态
A1	2023-11-21	初版。
A2	2024-2-19	性能优化；FPC 外形，线路更新。
A3	2024-4-8	性能优化；FPC 外形，线路更新。
A4	2024-5-16	性能优化；FPC 外形，线路更新。



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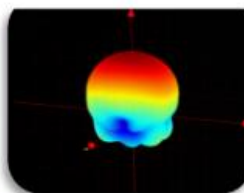
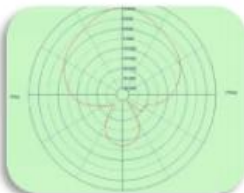
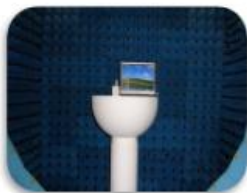
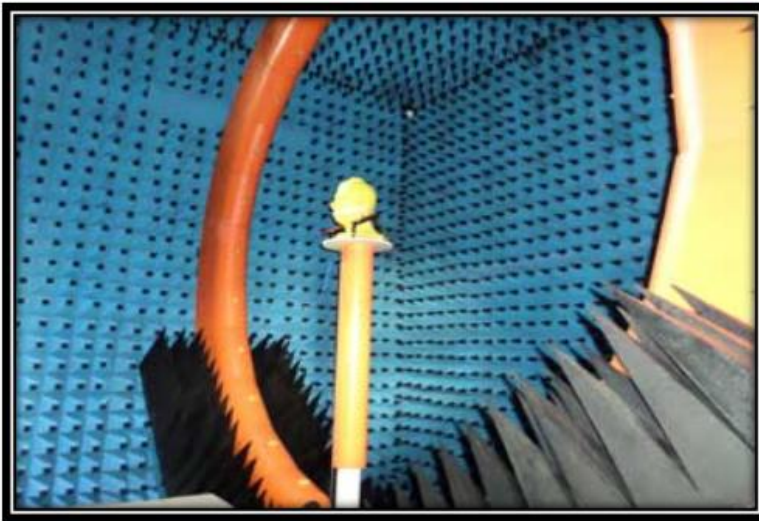
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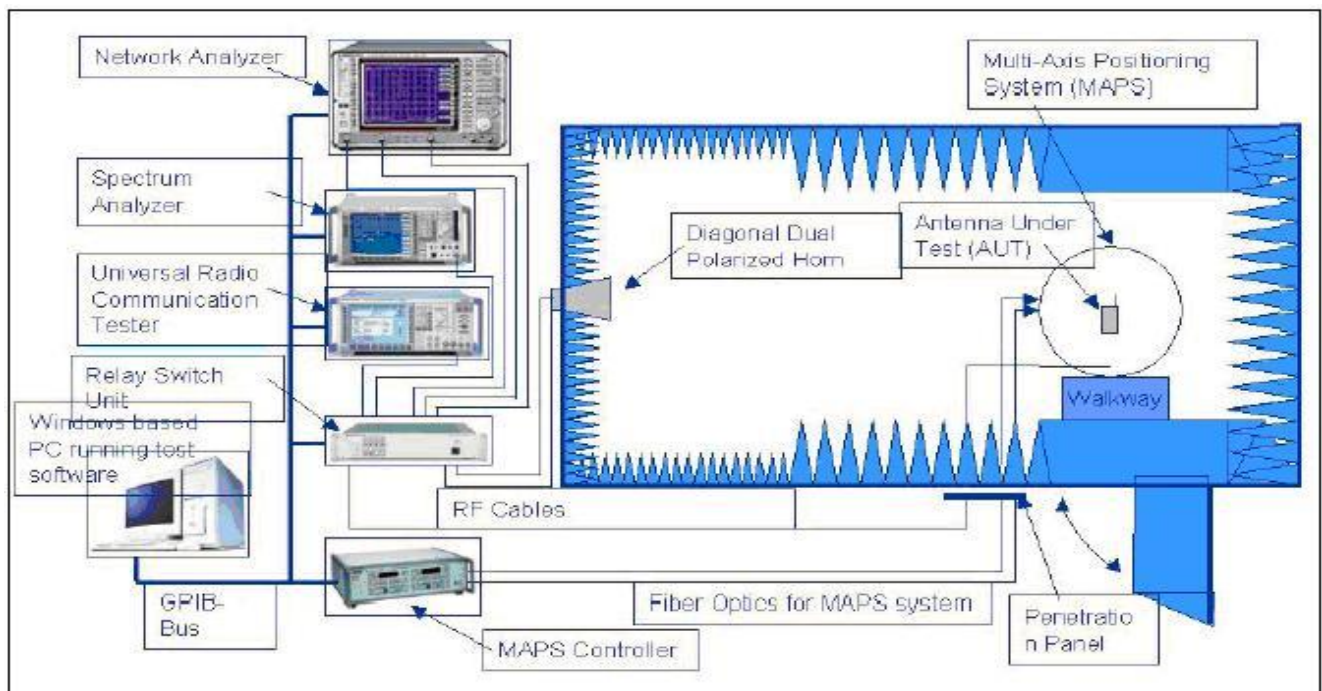
1. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CITA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



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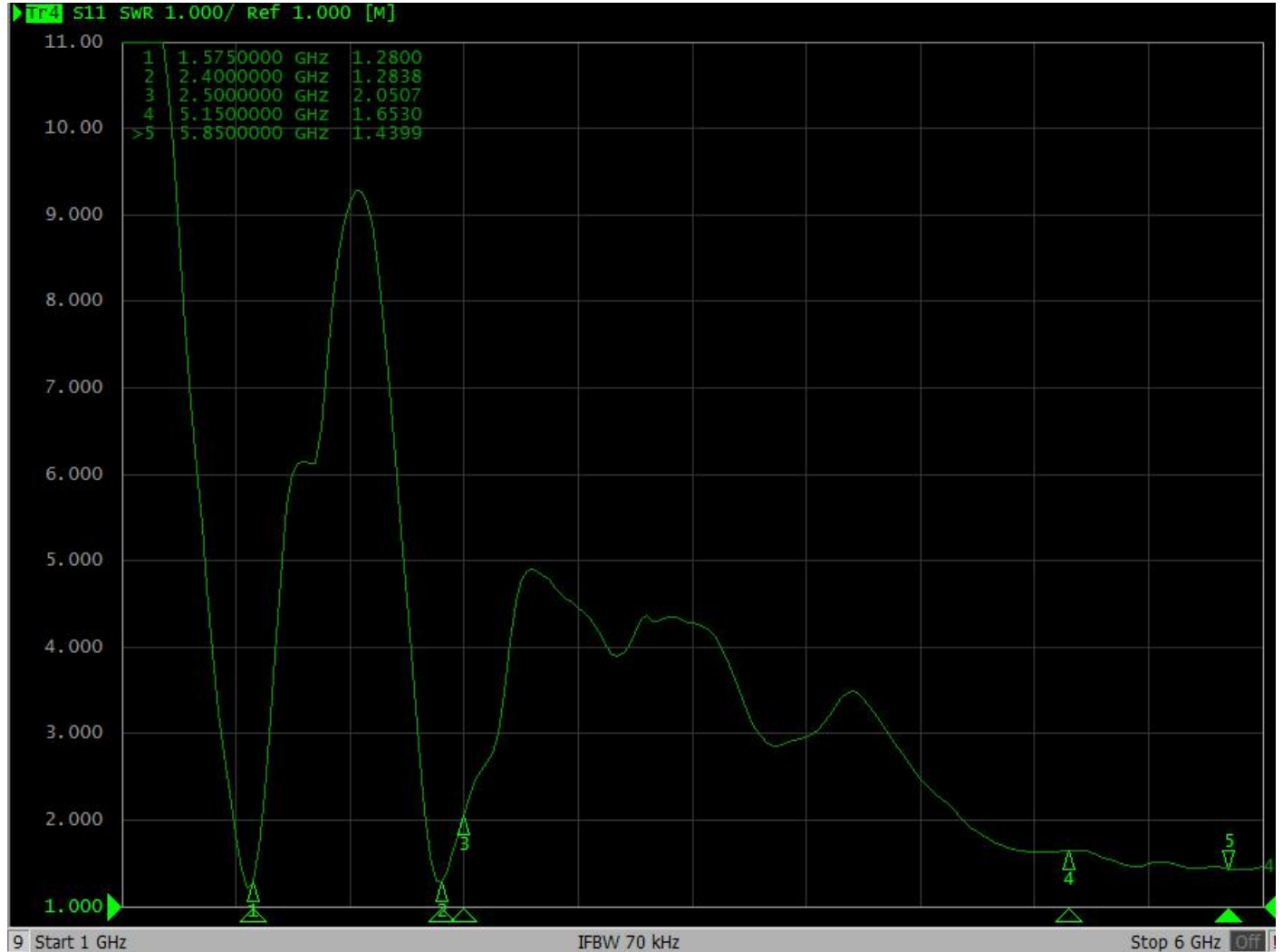
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2.Antenna test data

2-1 VSWR



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2-2 Antenna passive test

	串 1.8H;G:1.2nH		
Frequency (Mhz)	efficiency (dB)	efficiency (%)	Gain
1560	-3.6	43.61	0.62
1565	-3.66	43	0.2
1570	-3.58	43.81	0.65
1575	-3.58	43.84	1.14
1580	-3.68	42.88	1.41
1585	-3.79	41.78	1.46
1590	-3.95	40.27	1.16
1595	-4.14	38.59	0.6
1600	-4.08	39.07	-0.01
2400	-3.43	45.39	0.45
2410	-3.39	45.8	0.37
2420	-3.29	46.92	0.44
2430	-3.44	45.29	0.24
2440	-3.85	41.21	-0.04
2450	-3.85	41.23	0.3
2460	-3.62	43.42	0.77
2470	-3.44	45.29	1.16
2480	-3.79	41.81	0.82
2490	-3.96	40.14	0.68
2500	-3.77	41.97	1.04
5140	-5.06	31.17	1.86
5160	-4.84	32.84	1.46
5180	-5.27	29.74	1.99
5200	-4.47	35.73	2.46
5220	-4.96	31.94	2.38



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5240	-4.27	37.45	2.94
5260	-4.69	33.97	2.58
5280	-4.67	34.16	2.38
5300	-4.64	34.35	2.79
5320	-4.29	37.26	3.28
5340	-4.13	38.66	2.43
5360	-4.4	36.32	1.93
5380	-4.57	34.95	2.29
5400	-4.32	36.99	2.73
5420	-4.41	36.26	3.08
5440	-4.49	35.53	2.44
5460	-4.51	35.39	2.16
5480	-4.36	36.67	2.31
5500	-4.64	34.36	2.63
5520	-4.8	33.11	2.29
5540	-4.64	34.33	2.23
5560	-4.89	32.4	1.45
5580	-4.49	35.6	3.02
5600	-5	31.61	2.44
5620	-4.49	35.59	2.87
5640	-5.17	30.39	2.04
5660	-4.7	33.89	2.83
5680	-5.05	31.26	1.86
5700	-4.65	34.29	2.57
5720	-5.05	31.25	2.5
5740	-5.17	30.4	2.32
5760	-5.28	29.65	1.79
5780	-5.23	29.98	2.05
5800	-5.06	31.16	3.1



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5820	-5.58	27.69	2.26
5840	-4.86	32.68	2.34
5860	-5.8	26.32	1.07



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2-3 Active test data

单频 WIFI 版本

WIFI	串 1.8n,G 1.2nH		
	亮屏		
	CH	TRP	TIS
WIFI B(11/11)	1	14.41	-80.22
	7	13.31	-81.17
	13	13.93	-80.2
WIFI G(6/54)	1	12.97	-68.22
	7	13.14	-68.76
	13	13.47	-68.25
WIFI GN(MCS0/MCS7)	1	12.81	-64.91
	7	12.78	-65.53
	13	13.06	-66.08

ANTENNA SPECIFICATION

双频 WIFI 版本

WIFI	串 1.8n,G 1.2nH		
	亮屏		
	CH	TRP	TIS
WIFI A (6/54)	36	13.45	
	64	13.15	-67.72
	165	13.68	
WIFI B (11/11)	1	13.38	-81.63
	7	11.89	-81.04
	13	13.41	-82.01
WIFI G (6/54)	1	12.99	-69.8
	7	11.69	-70.29
	13	12.65	-69.86
WIFI GN (MCS0/MCS7)	1		
	7		
	13		
WIFI AN (MCS0/MCS7)	36	13.03	
	64	12.71	-62.7
	165	13.22	

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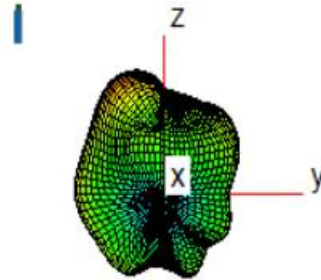
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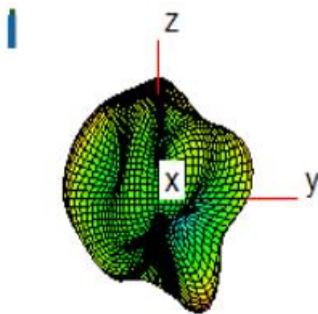
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2-4 3D radiation drawing

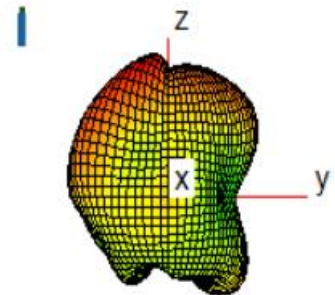
GPS



WIFI 2.4G

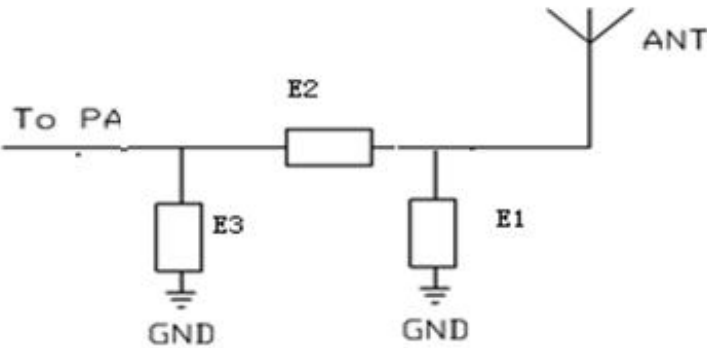


WIFI 5G



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2-5 Matching circuit



匹配说明	
E1	NC
E2	1. 8nh
E3	NC
GND	1. 2nH

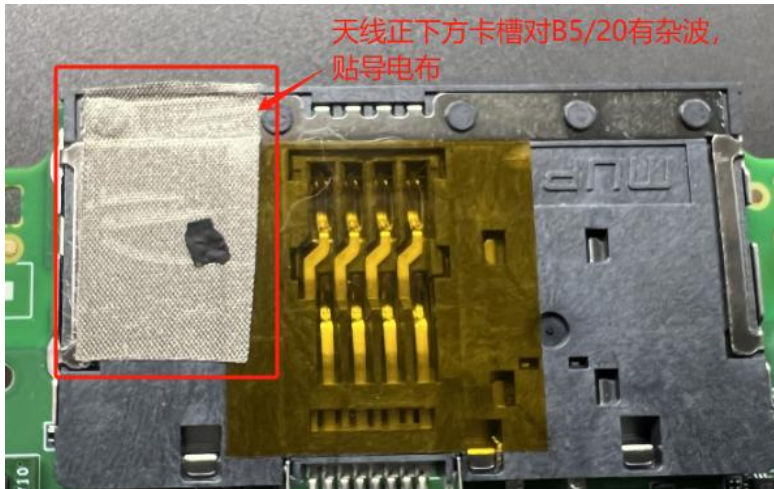


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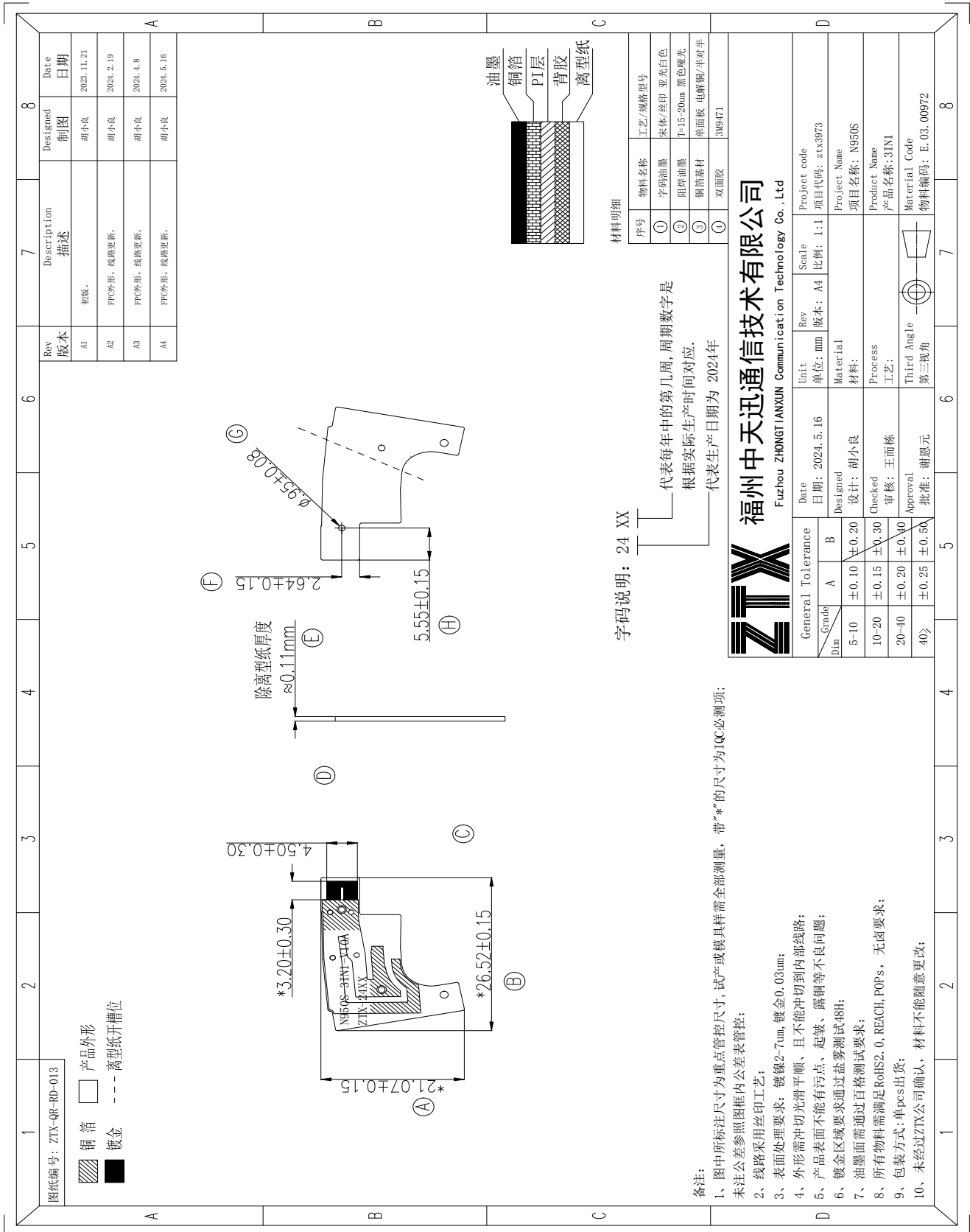
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2-6 Environment treatment



3. Mechanical Specification



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4.Size report

5.Salt-Spray test

6.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: $+70 \pm 2^{\circ}\text{C}$ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
4-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: $-30 \pm 2^{\circ}\text{C}$ 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.



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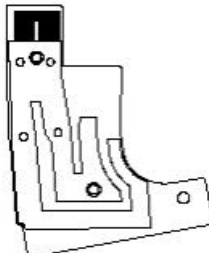
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7. The packing way

福州中天迅通信技术有限公司 Fuzhou Zhongtianxun Communication Technology Co., Ltd				作业指导书		
产品名称	产品型号	文件编号	版本	工序序号/名称	工序工时	日产量
31N1	N950S	ZTX-QD-WI-024	A1	包装	/	/
   物料码:XXXXXXXXXX 产品名称:XXXXXXXX 物料码:XXXXXXXXXX 数量:1000pcs 重量:XX g 周期:XXXX 图3: 小标签及追溯码				注意事项:		
				1. 发现重量有超出公差范围时，须对数量进行清点		
				2. 外箱只允许有1个物料标签，其余如有多余标签时须将其清理干净。		
				3. 条码标签在贴于外箱时，应尽量平整，避免应起皱影响客户入库。		
				4. 条码需清晰可扫描		
作业方法（自检验工序作业合格后，方能流入下一道工序）						
1. 产品采用单PCS出货，每（100pcs）产品用90*130mmPE封口膜						
2. 每个160*240mmPE开口胶袋装10小袋（1000PCS），尾数除外；						
3. 外箱上除标签贴外，不能有任何丝印（即空白纸箱）出货；						
4. 将包装好的产品装入纸箱，每箱数量根据订单数量要求进行数量确认，保证每箱装入的数量正确。						
5. 在装好产品的箱子上将外箱标签及物料追溯码，RoHS贴于外箱的右上角，打印标签内容包括（生产厂家，型号，产品名称，客户编码，数量，订单号，日期，QA检验，）						
物料编号		物料名称及规格		用量	工/夹具治具	
		纸箱(45*32.5*21)cm		1	电子称	
		PE封口袋(90*130)mm		200	封口机	
		PE开口袋(160*240)mm		20		
修订内容				修订日期	修订人	
版本						
制订	胡小良	审核	易爱玲	品质确认	胡春梅	张武民