

深圳市晨信微科技有限公司
Shenzhen Chenxinwei Technology Co., LTD.

承 认 书
SPECIFICATION FOR APPROVAL

客户名称CUSTOMER: 博创域

客户品名DESCRIPTION: DF6320 004 (WIFI-B)

客户料号PART NO:

规格描述 Spec Desc: 内置天线Antenna/2.4G~5.8G-WiFi/3dBi/50ohm/32.1*18.0mm/
RF1.13mm黑色同轴线L=80mm+剥线浸锡2-1.5-1mm/(DF6320 004-B)

确认 APPROVED SIGNATURES					
晨 信 微 确 认 APPROVED SIGNATURES			客 户 确 认 APPROVED SIGNATURES		
制样 SAMPLE BY	审核 REVIEWD BY	批准 APPROVED BY	验证 CHECKED BY	审核 REVIEWD BY	批准 APPROVED BY
日 期 DATE	2025-03-14		日 期 DATE		

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Document Development/Revision/Abolition Resume

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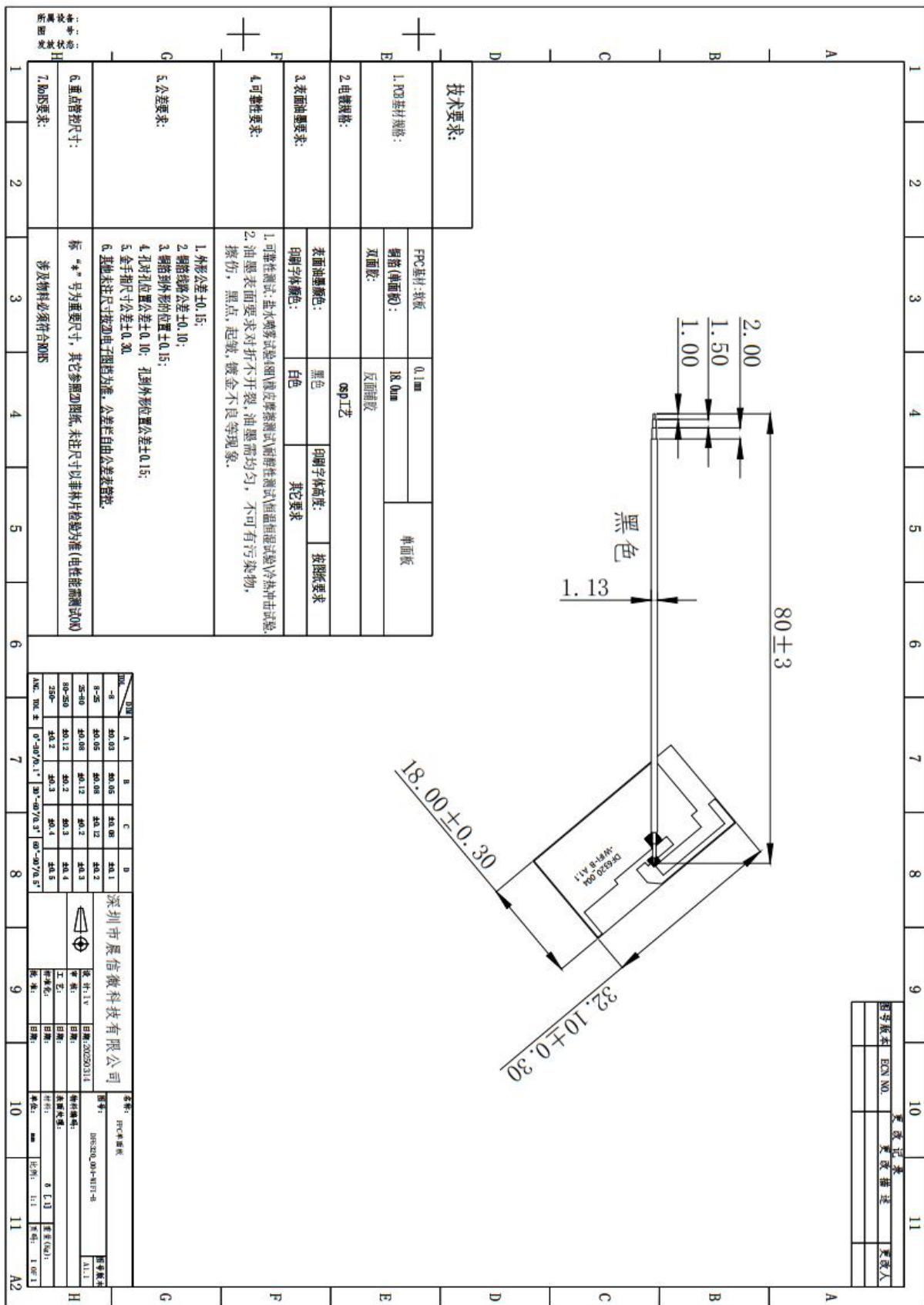
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4、产品图纸Product drawings



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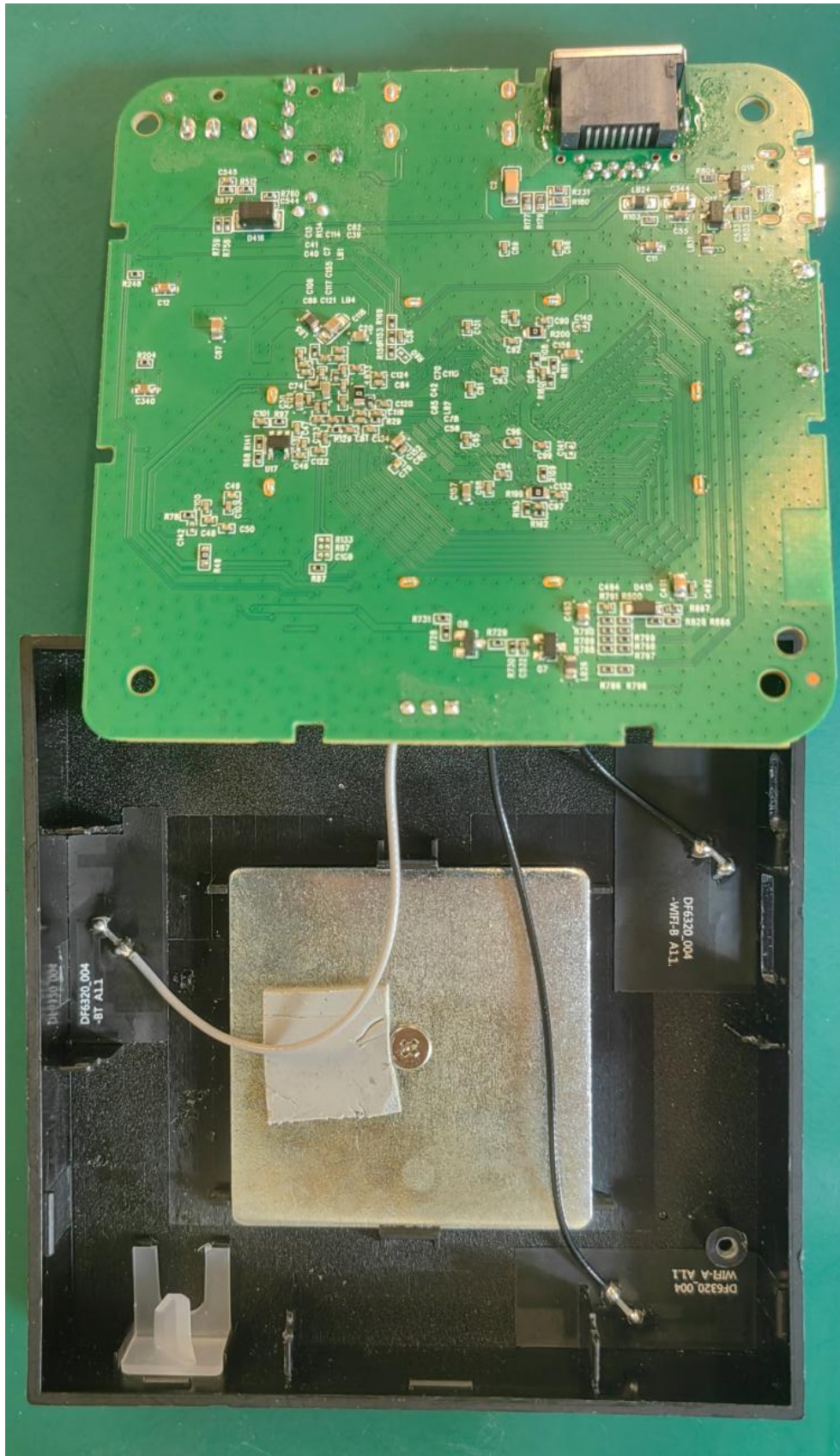
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5、天线位置Antenna position



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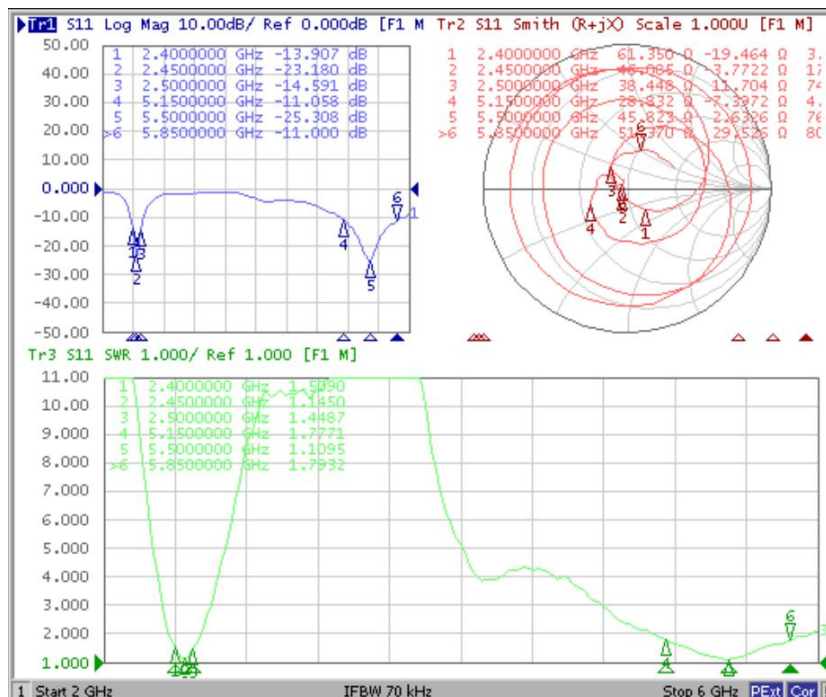
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6、无源测试数据Passive test data

S11



Fre(GHz)	2.4	2.5	5.15	5.85
ReeturnLoss	-13.90	-14.59	-11.05	-11.00
VSWR	1.53	1.44	1.77	1.79

效率、增益、方向图Efficiency, gain, and directional graph

														
Frequency ID	1	3	5	7	9	11	12	14	16	18	20	22	24	26
Frequency (MHz)	2400.0	2420.0	2440.0	2460.0	2480.0	2500.0	5150.0	5250.0	5350.0	5450.0	5550.0	5650.0	5750.0	5850.0
Efficiency (dBi)	-2.66	-2.38	-2.35	-2.47	-2.44	-2.52	-2.94	-3.02	-2.63	-2.46	-2.42	-2.84	-2.97	-2.75
Gain (dBi)	4.06	4.41	4.32	4.19	4.23	4.14	2.99	3.11	3.05	3.39	4.03	3.82	3.62	3.45
Efficiency (%)	54.22	57.80	58.25	56.65	56.97	55.93	50.85	49.84	54.53	56.82	57.24	51.95	50.49	53.15
Directivity (dB)	6.72	6.79	6.67	6.65	6.67	6.67	5.93	6.13	5.68	5.84	6.45	6.66	6.59	6.19
Peak Gain Position (Theta)	87.00	86.00	89.00	92.00	105.00	107.00	71.00	76.00	75.00	70.00	67.00	69.00	81.00	71.00
Peak Gain Position (Phi)	83.00	90.00	93.00	91.00	85.00	84.00	68.00	70.00	72.00	72.00	72.00	75.00	69.00	76.00
Efficiency ThetaPol (%)	31.03	35.74	37.72	37.13	36.41	33.82	23.72	22.42	23.04	22.91	22.48	22.87	23.39	24.01
Efficiency PhiPol (%)	23.19	22.05	20.52	19.52	20.56	22.11	27.13	27.43	31.49	33.91	34.75	29.08	27.10	29.13
Upper Hem. Efficiency (%)	30.68	32.72	32.54	30.46	29.59	28.76	35.62	35.51	37.41	38.14	38.75	33.70	31.95	33.69
Lower Hem. Efficiency (%)	23.54	25.08	25.71	26.19	27.37	27.17	15.23	14.33	17.12	18.68	18.48	18.24	18.54	19.45

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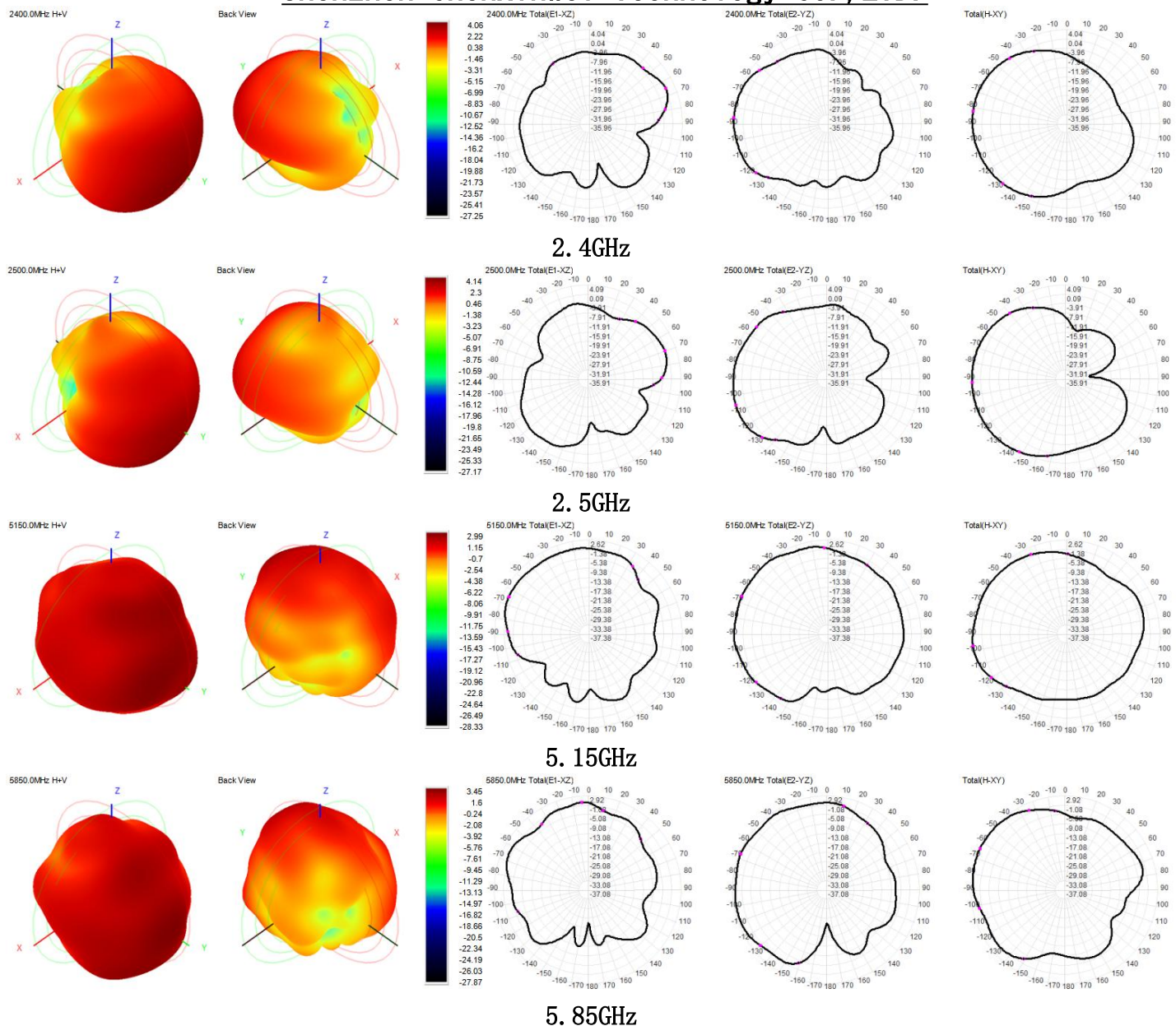
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7、有源测试数据Active test data

DF6320_004						
2.4G-WiFi 11b 11M tx 11M rx	Channel	TRP	EIRP	Channel	TIS	EIS
	ch1	16.24	21.51	ch1	-75.23	80.5
	ch7	15.39	20.33	ch7	-75.64	80.59
	ch13	16.01	21.28	ch13	-76.39	81.66
2.4G-WiFi 11n MCS7	Channel	TRP	EIRP	Channel	TIS	EIS
	ch1	15.03	20.42	ch1	-66.37	71.76
	ch7	14.39	19.43	ch7	-65.74	70.78
	ch13	15.13	20.47	ch13	-65.47	70.81
5.8G-WiFi 11a 6M tx 54M rx	Channel	TRP	EIRP	Channel	TIS	EIS
	ch36	13.72	19.22	ch36	-71.19	76.69
	ch64	14.26	19.63	ch64	-72.95	78.32
	ch165	14.22	19.69	ch165	-73.04	78.51

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8、电气性能参数Electrical Performance Test Report

电气参数Electrical parameters		
频率范围 Frequency range		2.4-2.5GHz /5.15-5.85GHz
输入阻抗 Input impedance		50 Ω
驻波比 SWR		<2.0
增益 GAIN	2.4GHz	3 dBi
	5.8GHz	3 dBi
极化方式 Polarization mode		交叉极化 Cross-polarization
辐射方向 Radiation direction		全向 Omnidirectional
接头型号 Connector model		焊接 welding
机械参数mechanical parameters		
线长 Cable length		80mm
维持力 Sustainability		/
同轴电缆 Coaxial cable		灰色1.13mm/ grey1.13mm
盐雾测试 Salt spray test		
环境参数Environmental parameters		
工作温度 Operation temperature		-40~85℃

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可靠性试验报告Reliability Test Report

9.1. 恒温恒湿试验Constant temperature and humidity test

试验/试验项目 Test/Test Item	恒温恒湿试验 Constant temperature and humidity test	检验单号 Inspection Order Number
产品名称/规格 Product Name/Specification	2. 4G/5. 8G-FPC RF1.13mm, 线长/length 80mm	试验数量: 5PCS Test quantity
送检日期 Date of submission for inspection	: 2025-02-26	完成日期: 2025-02-27 completion date
试验/检验设备Testing/Inspection Equipment: 1. 可编程恒温恒湿试验箱Programmable constant temperature and humidity experimental chamber 2. 8753ES 网络分析仪8753ES Network Analyzer		
试验/检验条件Test/Inspection Conditions: 1. 恒温-40℃ 下试验 12H Test at a constant temperature of -40 ºC for 12 hours 2. +65º65~70%RH 试验 12H, 共 24 小时 +65 º 65-70% RH test for 12 hours, totaling 24 hours;		
试验结果 Test Results		
判定标准Judgment criteria: 1、金属表面没有裂痕起皱, 分离等;非金属部分不应发生变色, 开裂, 变形, 脱胶等不良; The metal surface has no cracks, wrinkles, separation, etc; Non metallic parts should not experience discoloration, cracking, deformation, delamination, or other defects 2、电气测试符合标准要求;电压驻波比测试合格 Electrical testing meets standard requirements; Voltage standing wave ratio test passed		
试验/检验判定: Test/Inspection Judgment	●合格 ●PASS	●不合格 ●NG
		●不作判定 ●NA
测试Test:	审核Check:	

9.2. 高低温冷热冲击High and low temperature thermal shock

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试验/试验项目 Test/Test Item	高低温冷热冲击 High and low temperature thermal shock	检验单号 Inspection Order Number
产品名称/规格 Product Name/Specification	2. 4G/5. 8G-FPC RF1.13mm, 线长/length 80mm	试验数量: 5PCS Test quantity
送检日期 Date of submission for inspection	: 2025-02-26	完成日期: 2025-02-27 completion date
试验/检验设备Testing/Inspection Equipment: 1.高低温交变湿热箱High and low temperature alternating humidity chamber 2.8753ES 网络分析仪8753ES Network Analyzer		
试验/检验条件Test/Inspection Conditions: -40℃ (2H)---间隔 80℃ (2H),6 次循环, 共 24 小时 -40 ℃ (2H) - Interval of 80 ℃ (2H), 6 cycles, for a total of 24 hours;		
试验结果 Test Results		
判定标准Judgment criteria: 1、金属表面镀层应无剥落, 裂痕起皱, 分离等;非金属部分不应发生变色, 开裂, 变形, 脱胶等不良; The metal surface coating should be free of peeling, cracks, wrinkles, separation, etc; Non metallic parts should not experience discoloration, cracking, deformation, delamination, or other defects 2、电气测试符合标准;电压驻波比测试合格 Electrical testing meets standards; Voltage standing wave ratio test passed.		
试验/检验判定:	●合格	●不合格
Test/Inspection Judgment	●PASS	●NG
测试Test:		审核Check:

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10、包装规范

产品料号Product part number:				
产品规格 Product specifications: 内置天线Antenna/2.4G~5.8G-WiFi/3dBi/50ohm/32.1*18.0mm/RF1.13mm 黑色同轴线L=80mm+剥线浸锡2-1.5-1mm/(DF6320 004-B)				
一、标签要求labeling requirement				
内标签长 45 宽 70 Inner label length 45, width 70			外标签长 45 宽 70 Outer label length 45, width 70	
需方CUSTOMER			需方CUSTOMER	
供方Suppliers	深圳市晨信微科技有限公司 Shenzhen Chenxin Micro Technology Co., Ltd		供方Suppliers	深圳市晨信微科技有限公司 Shenzhen Chenxin Micro Technology Co., Ltd
客户订单号 Customer order number			客户订单 Customer order number	
客户料号 Customer part number			客户料号 Customer part number	
物料编码 material code			物料编码 material code	
品名规格 Product name and specifications		检验员QC	品名规格Product name and specifications	检验员QC
数量/单位 Quantity/Unit		生产日期 Date of manufacture	数量/单位 Quantity/Unit	生产日期 Date of manufactur e
备注Note			备注Note	
二、装箱要求Packing requirements				
1、内包装Inner packing 产品 Product 100PCS 5000PCS				
2、外包装External packing				

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注意事项precautions:

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