

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

Letter of acceptance

Customer Name : Shenzhen IFERRET Technology Co.,LTD

Customer Model: AX20

Customer Material Number:

Specifications: Built-in antenna Antenna/2.4G~5.8G-WiFi/3dBi/50ohm/43.4*12.0mm/
RF1.13mm black coaxial cable L=100mm+IPEX1

Confirm signature and seal

Chenxinwei confirmation			Customer confirmation		
Sample preparation	review	approve	verify	review	approve
Chenxinwei signature and seal			Customer signature and seal		
date	2025-03-17		date	2025- -	

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2、 Document Preparation/Revision/Abolition Record

[illegible]

Shenzhen Chenxinwei Technology Co., LTD.

Address: No. 1123, Tongfang Chuangxiang Commune, the intersection of Zhongxin Road and Haoxiang Road, Xinqiao Street, Bao'an District, Shenzhen

Contact: Wang Jianguo Mobile: 13424341872

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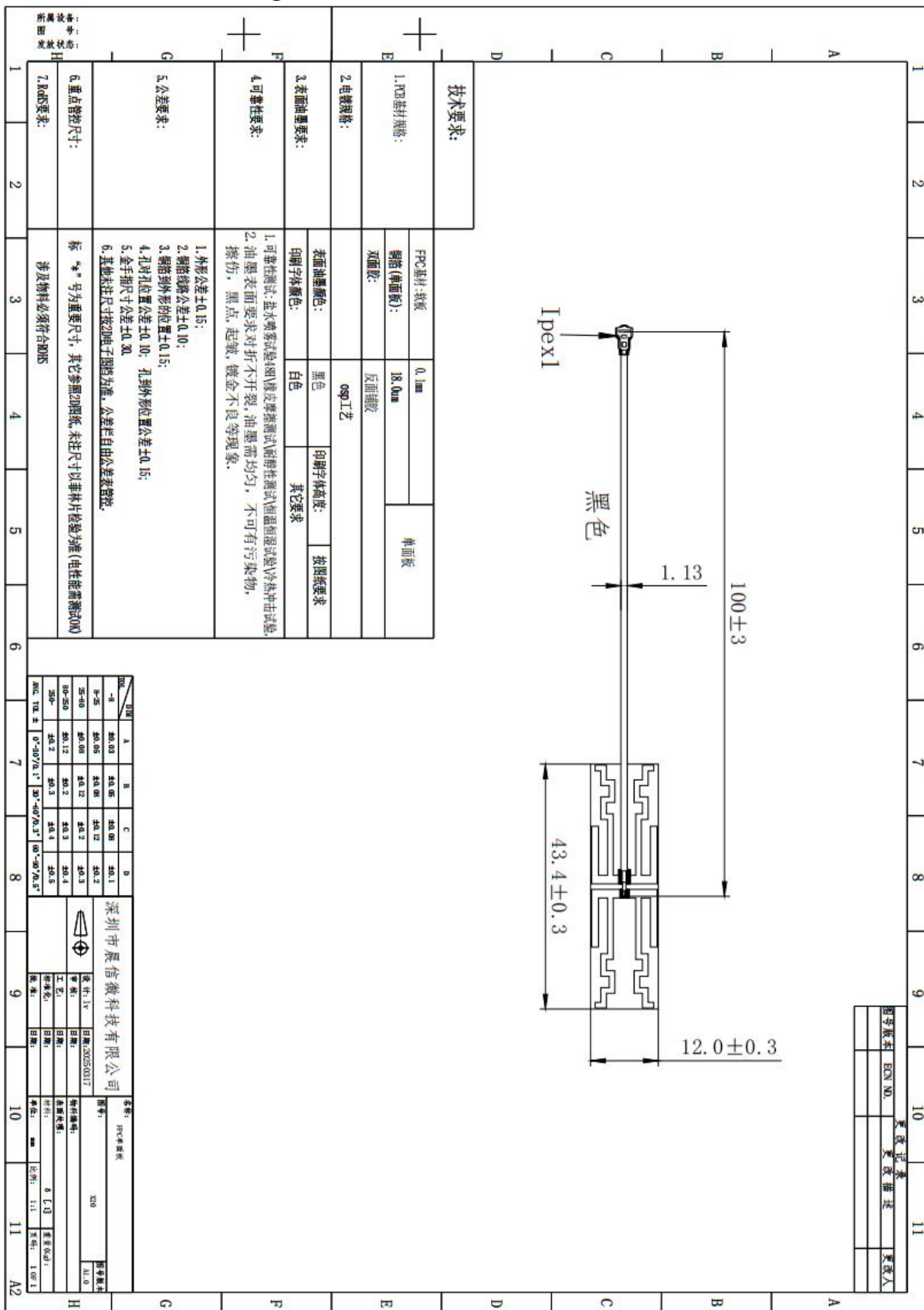
3、Catalogue

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4、Product drawings



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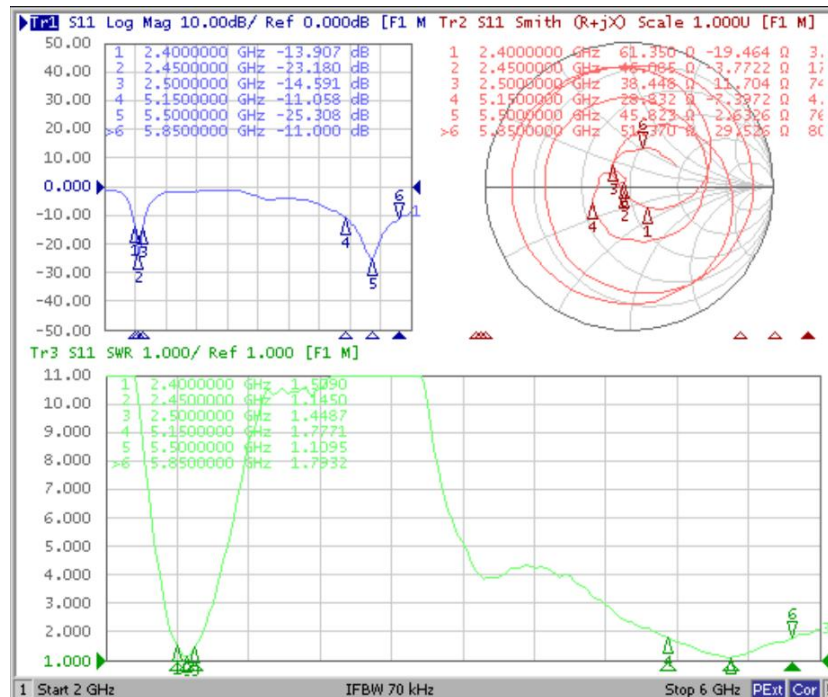
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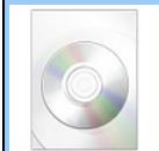
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5、Passive test data

S11



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



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

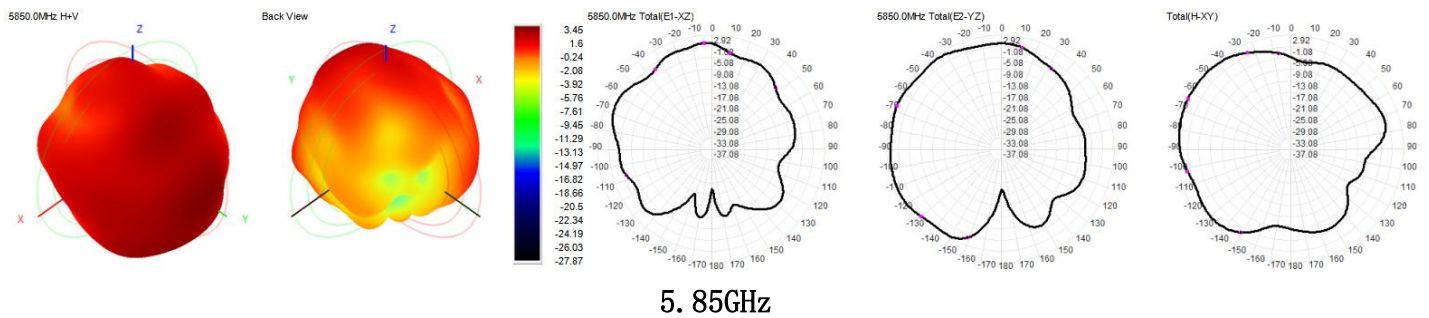
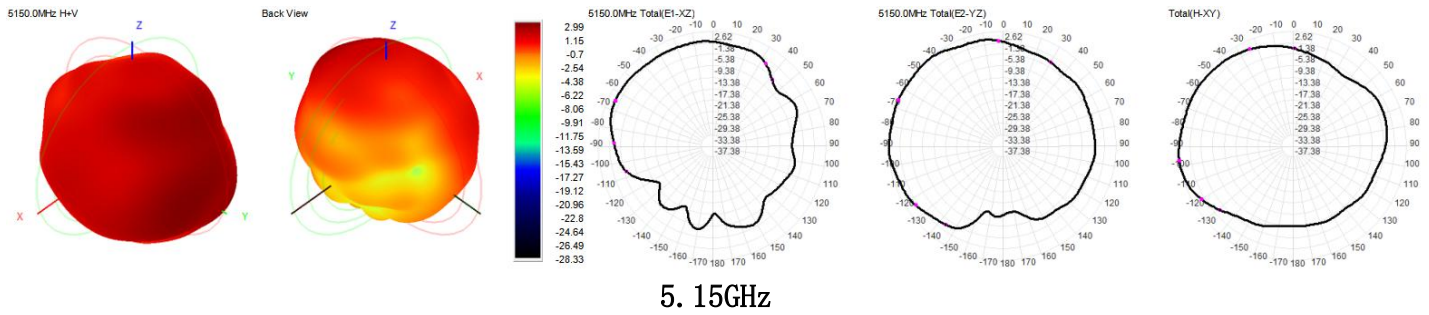
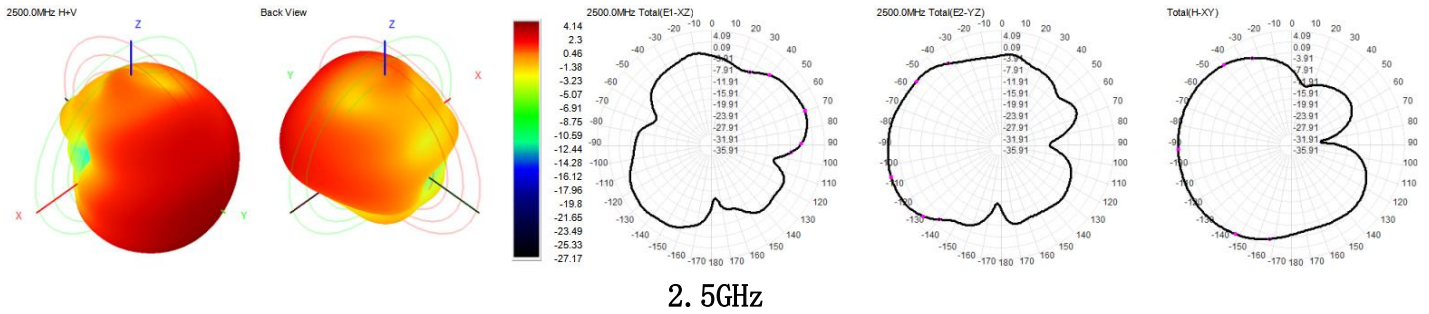
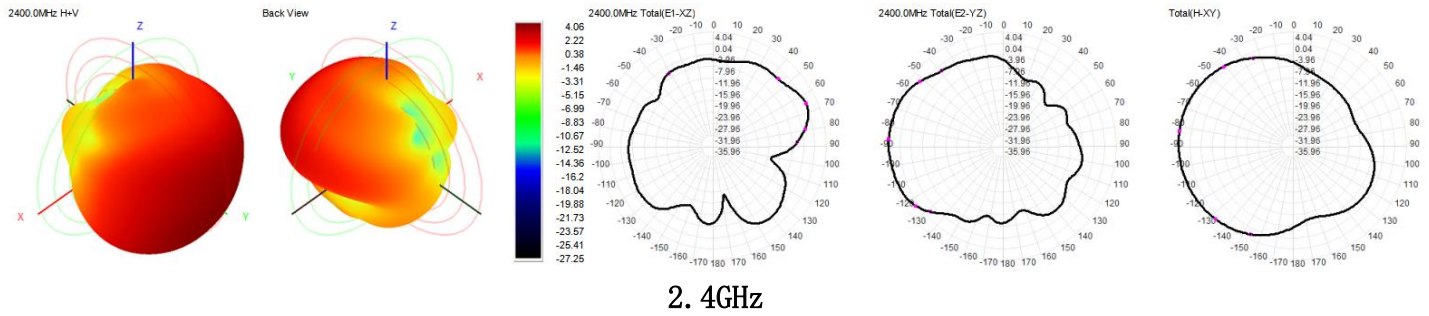
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6、Electrical performance test report

Electrical parameters		
Frequency range		2.4-2.5GHz /5.15-5.85GHz
Input impedance		50 Ω
Voltage Standing Wave Ratio		<2.0
Gain	2.4GHz	3 dBi
	5.8GHz	3 dBi
Polarization mode		cross polarization
Radiation direction		omnidirectional
Connector model		Ipex1
Mechanical parameters		
Line length		100mm
Sustaining power		/
Coaxial cable		Black1.13mm
Salt spray test		
Environmental parameters		
Working temperature	-40~85℃	

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7、Reliability test report

7.1.Constant temperature and humidity test

Test/Test Project	Constant temperature and humidity test	Inspection order number
Product name/specification	2. 4G/5. 8G-FPC RF1.13mm cable, cable length 100mm	Test quantity: 5PCS
Inspection date: 2025-02-26		Completion date: 2025-02-27
Test/inspection equipment: 1. Programmable constant temperature and humidity test chamber 2. 8753ES network analyzer		
Test/inspection conditions: 1. Test at constant temperature -40℃ for 12 hours 2. Test at +65° 65~70%RH for 12 hours, a total of 24 hours;		
Test Results		
Judgment criteria: 1. The metal surface should not have cracks, wrinkles, separation, etc.; the non-metallic part should not have discoloration, cracking, deformation, degumming, etc. 2. The electrical test meets the standard requirements; the voltage standing wave ratio test is qualified		
Test/inspection judgment:	●Qualified	●Unqualified
		●No judgment

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Test:	Review:
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7.2.High and low temperature thermal shock

Test/Test Project	High and low temperature thermal shock	Inspection order number
Product name/specification	2.4G/5.8G-FPC RF1.13mm cable, cable length 100mm	Test quantity: 5PCS
Inspection date: 2025-02-26		Completion date: 2025-02-27
Test/inspection equipment: 1. High and low temperature alternating damp heat 2. 8753ES network analyzer		
Test/inspection conditions: -40℃ (2H)---interval 80℃ (2H), 6 cycles, a total of 24 hours		
Test Results		
Judgment criteria: 3. The metal surface coating should not peel off, crack, wrinkle, separate, etc.; the non-metallic part should not change color, crack, deform, debond, etc.; 4. The electrical test meets the standards; the voltage standing wave ratio test is qualified.		

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Test/inspection judgment:	☒ Qualified	☐ Unqualified	☐ No judgment
Test:	Review:		

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8. Packaging specifications

Product part number:										
Product specifications: built-in antenna Antenna/2.4G~5.8G- WiFi/3dBi/50ohm/43.4*12.0mm/RF1.13mm black coaxial line L=100mm+IPEX1										
一、Labeling requirements										
Inner label length 45 width 70					Outer label length 45 width 70					
demand side					demand side					
supplier		Shenzhen Chenxinwei Technology Co.,LTD.			supplier		Shenzhen Chenxinwei Technology Co.,LTD.			
Customer order number					Customer order number					
Customer part number					Customer part number					
Material code					Material code					
Product name specifications			inspector			Product name specifications			inspector	
quantity/unit			Production date			quantity/unit			Production date	
Remark					Remark					
二、Packing requirements										
1. Inner packaging										
Product										
100PCS										
5000PCS										
2、Outer packaging										

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Things to note:

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