

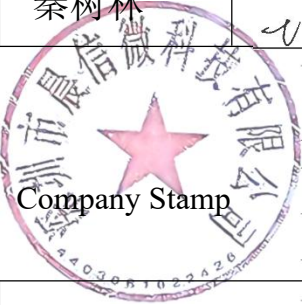
Report

Customer Name: Jiasai

Customer Model: NITE D70R

Customer Part No.:

Specifications: Built-in Antenna/2.4G~5.8G-WiFi/50ohm/22.70*21.41mm/RF0.81mm
Black coaxial cable L=130mm+IpeX3

Confirm Signature Stamp					
Chenxinwei Confirmed			Customer Confirmed		
Prepared	Reviewed by	Approved by	验证	Reviewed by	Approved by
樊蕾	秦树林	王建国			
			Company Stamp		
Date	2025-08-06		Date	2025- -	

2. Document History Record

[illegible]

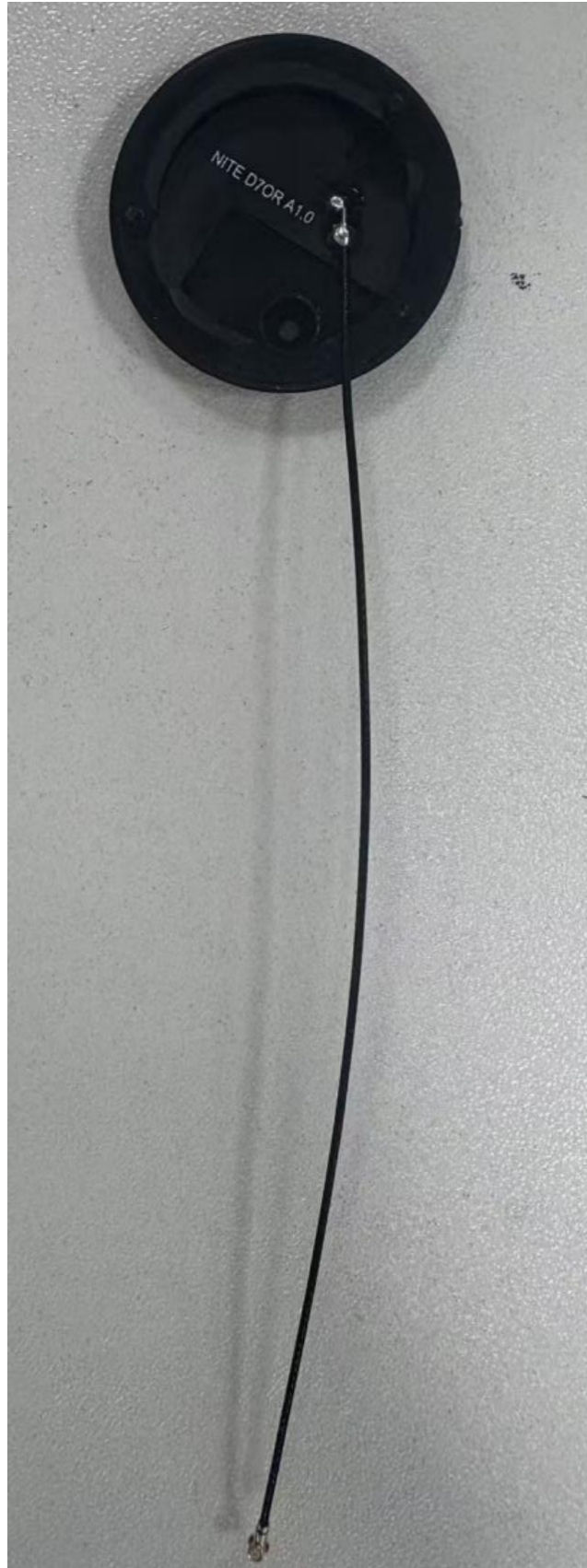
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4、 Product Drawings

[illegible]

5. Antenna Location



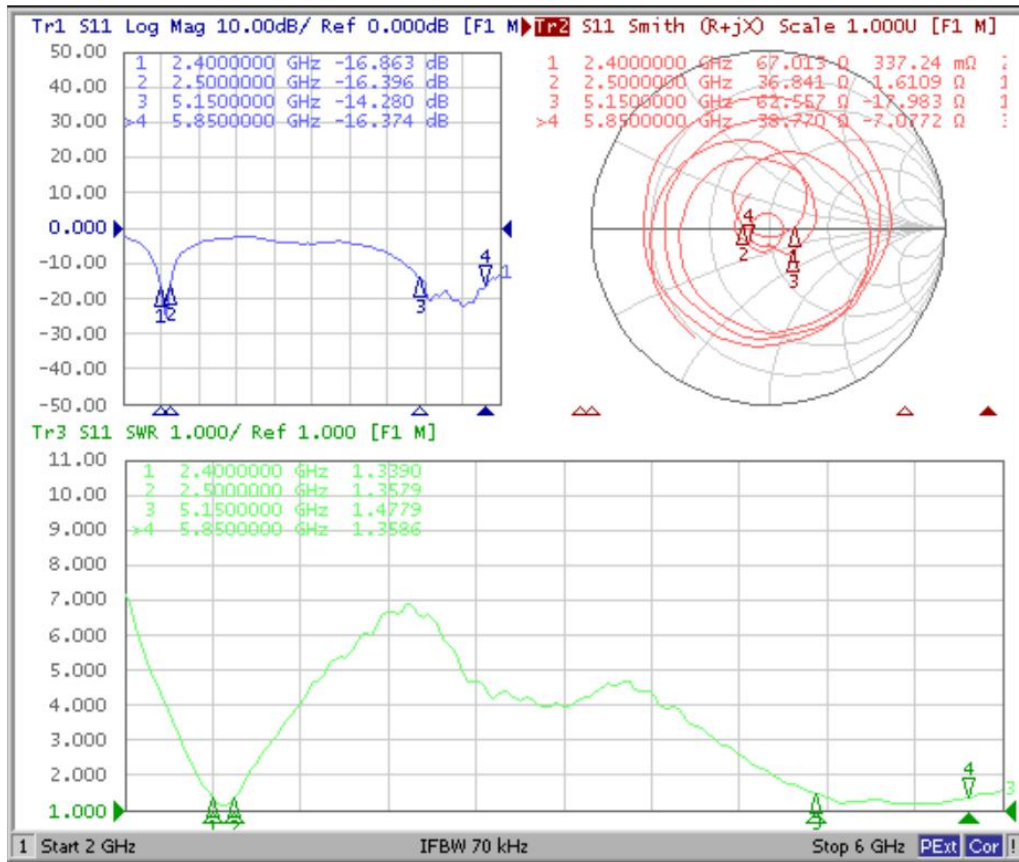
Shenzhen Chenxinwei Technology Co., Ltd.

Address: Room 1123, Tongfang Chuangxiang Commune, Intersection of Zhongxin Road and Haoxiang Road, Xinqiao Subdistrict, Bao'an District, Shenzhen

Contact: Wang Jianguo Mobile: 13424341872

6. Passive test data

S11



Fre(GHz)	2.4	2.5	5.15	5.85
Reeturn Loss	-16.86	-16.39	-14.28	-16.37
VSWR	1.33	1.35	1.47	1.35

Frequency, Efficiency, Directivity

																					
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Frequency (MHz)	2400.0	2405.0	2410.0	2415.0	2420.0	2425.0	2430.0	2435.0	2440.0	2445.0	2450.0	2455.0	2460.0	2465.0	2470.0	2475.0	2480.0	2485.0	2490.0	2495.0	2500.0
Efficiency (dBi)	-6.12	-5.66	-6.04	-5.71	-5.92	-5.26	-5.61	-5.18	-5.64	-5.19	-5.31	-4.94	-5.14	-4.94	-5.05	-4.78	-4.76	-4.77	-4.86	-4.80	-4.59
Gain (dBi)	-1.03	-0.51	-0.79	-0.50	-0.58	-0.08	-0.23	0.11	-0.06	0.48	0.66	0.99	1.01	1.00	1.05	1.09	1.11	0.84	0.71	0.47	0.72
Efficiency (%)	24.41	27.18	24.91	26.87	25.59	29.77	27.51	30.31	27.31	30.26	29.42	32.10	30.62	32.09	31.26	33.30	33.44	33.37	32.64	33.13	34.77
Directivity (dB)	5.10	5.15	5.25	5.21	5.34	5.18	5.37	5.29	5.58	5.67	5.97	5.93	6.16	5.94	6.10	5.86	5.87	5.61	5.58	5.27	5.31
Peak Gain Position (Theta)	150.00	150.00	150.00	150.00	150.00	150.00	150.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00
Peak Gain Position (Phi)	255.00	255.00	255.00	255.00	255.00	255.00	270.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00	240.00
Efficiency ThetaPol (%)	14.19	15.48	14.16	15.30	14.50	16.45	14.73	16.17	14.75	16.39	15.67	16.54	15.58	16.44	16.10	17.02	16.80	16.76	16.53	16.96	17.42
Efficiency PhiPol (%)	10.22	11.70	10.75	11.57	11.09	13.33	12.78	14.14	12.56	13.86	13.75	15.56	15.03	15.64	15.16	16.28	16.63	16.62	16.11	16.17	17.35
Upper Hem. Efficiency (%)	8.52	9.47	8.61	9.31	8.87	10.48	9.78	10.84	9.76	10.82	10.50	11.57	11.01	11.69	11.38	12.28	12.45	12.52	12.30	12.55	13.23
Lower Hem. Efficiency (%)	15.89	17.71	16.31	17.56	16.72	19.29	17.73	19.48	17.54	19.44	18.92	20.53	19.61	20.40	19.89	21.02	20.99	20.86	20.34	20.58	21.54

Radiation Patterns at 2.4GHz

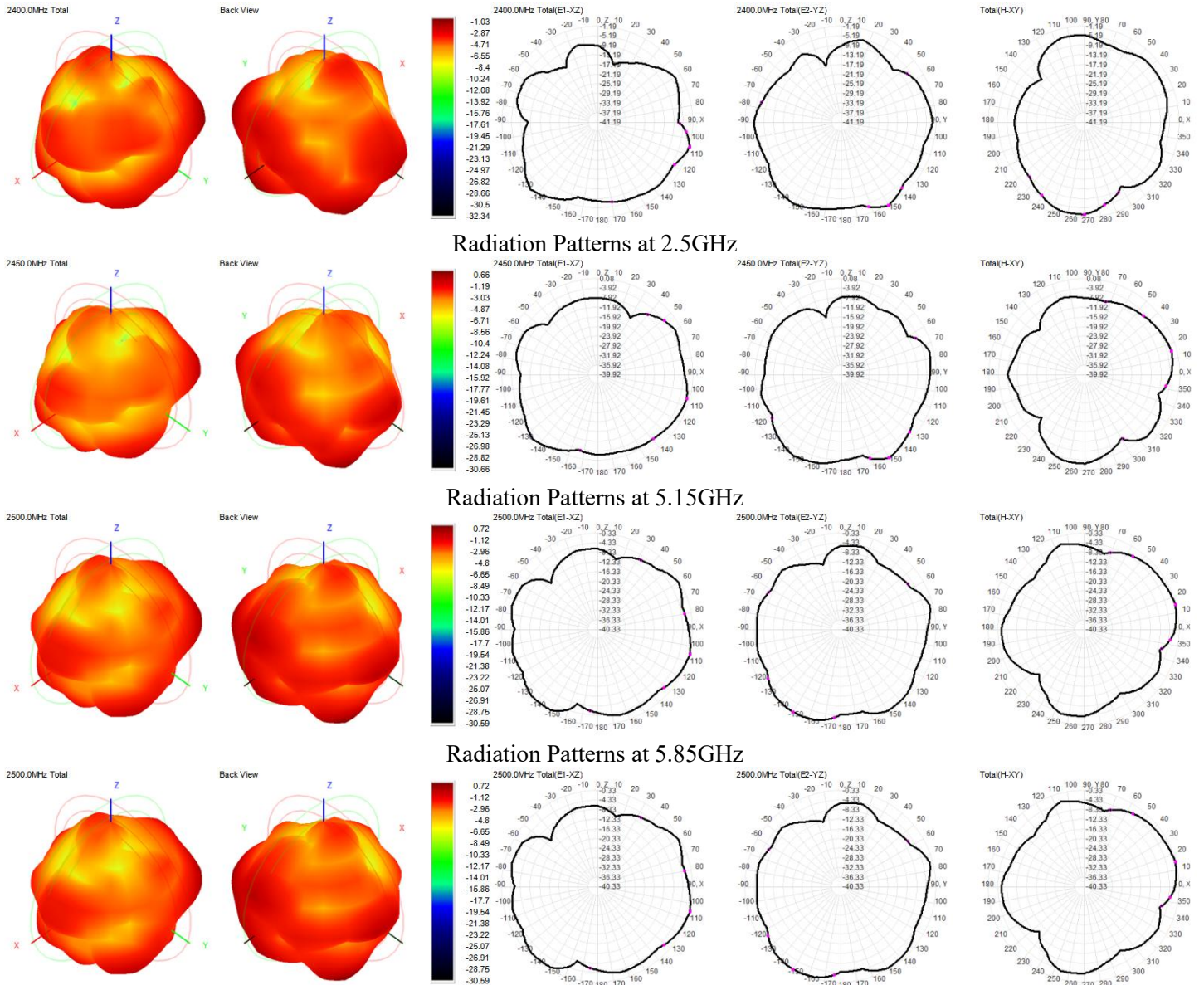
Shenzhen Chenxinwei Technology Co., Ltd.

Address: Room 1123, Tongfang Chuangxiang Commune, Intersection of Zhongxin Road and Haoxiang Road, Xinqiao

Subdistrict, Bao'an District, Shenzhen

Contact: Wang Jianguo Mobile: 13424341872

Shenzhen Chenxinwei Technology Co., LTD.



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7. Electrical Test Parameters

Electrical parameters		
Frequency range		2.4-2.5GHz /5.15-5.85GHz
Input impedance		50 Ω
VSWR Test		<2.0
Gain	2.4GHz	0 dBi
	5.8GHz	1 dBi
Polarization		Cross-pol
Radiation Direction		Omnidirectional
Connector Model		Ipex3
Mechanical parameters		
Cable length		130mm
Retaining force		/
Coaxial cable		Black 0.81
Salt Spray Test		
Environmental Parameters		
Working temperature		-40~85℃

8. Reliability Testing Report

8.1.Constant Temp. & Humidity Test

Test/Test Item	Constant Temp. & Humidity test	Test No.
Product name/Spec.	2.4G/5.8G-FPC RF0.81mm cable, cable length 130mm	Test Qty: 5PCS
Submission Date :2025-06-23		Completion Date:2025-06-24
Testing/Inspection Equipment: 1.Programmable Constant Temperature and Humidity Chamber 2.8753ES Network Analyzer		
Test/Inspection Conditions: 1. Constant Temperature-40℃ test 12H 2. +65°65~70%RH test 12H, total 24 hours;		
Test Results		
Judgment Criteria: 1. Metal surfaces shall be free from cracks, wrinkles, separation, etc. Non-metallic parts shall not exhibit discoloration, cracking, deformation, debonding, or other defects. 2. Electrical test meets the applicable standard requirements; VSWR test is passed.		
Test/Inspection Judgment:	●PASS	● Fail
● No Judgment		
Test by:		Reviewed by:

8.2.High-Low Temperature Thermal Shock Test

Test/Test Item	High-Low Temperature Thermal Shock Test	Test No.
Product name/Spec.	2.4G/5.8G-FPC RF0.81mm Cable, Cable length 130mm	Test Qty: 5PCS
Submission Date: 2025-06-23		Completion Date:2025-06-24
Testing/Inspection Equipment: 1.High and Low Temperature Alternating Damp Heat Test Chamber 2.8753ES Network Analyzer		
Test/Inspection Conditions: -40°C (2 hours) — 80°C (2 hours), 6 cycles, total 24 hours;		
Test Results		
Judgment Criteria: 3.The coating/plating on metal surfaces shall be free from peeling, cracks, wrinkles, separation, etc. Non-metallic parts shall not exhibit discoloration, cracking, deformation, debonding, or other defects. 4. Electrical test meets the applicable standard requirements; VSWR test is passed.		
Test/Inspection Judgment:	●PASS	● Fail
		● No Judgment
Test by: Reviewed by:		

9. Packaging Standards

Part No.:									
Specifications: <u>Built-in Antenna/2.4G~5.8G-WiFi/50ohm/22.70*21.41mm/RF0.81mm</u> <u>Black coaxial cable L=130mm+IpeX3</u>									
1. Label Requirements									
Inner label: 45 (width) 70 (height)						Outer label: 45 (width) 70 (height)			
Customer						Customer			
Supplier		Shenzhen Chenxinwei Technology Co.,LTD.				Supplier		Shenzhen Chenxinwei Technology Co.,LTD.	
Order No.						Order No.			
Part No.						Part No.			
Material Code						Material Code			
Product Name and Specifications		Inspector				Product Name and Specifications		Inspector	
Quantity/Unit		Date of Manufacture				Quantity/Unit		Date of Manufacture	
Remarks						Remarks			
2. Packaging Requirements									
1). Inner packaging Products 100PCS 5000PCS									
2). Outer packaging									
Notes:									