

Acknowledgement Form

customer name : Invest in America

Customer machine type: M1-L120MM

Customer data number:

Specifications Description:Built-in Antenna/2.4G&5.8G WiFi/3dBi/50 Ω FPC
43.40X12.00mm RF1.13mm Black Coaxial Cable Length:120mm+1mm Ipex1

Signature and Seal					
Sky Intelligence			Customer Confirmation		
sample reparation	Check	approve	verification	Check	approve
Frequency intelligent signature and seal			Customer's signature and Seal		
date	2024-04-10		date	2024- -	

2、 Document formulation/revision/removal of application form

[illegible]

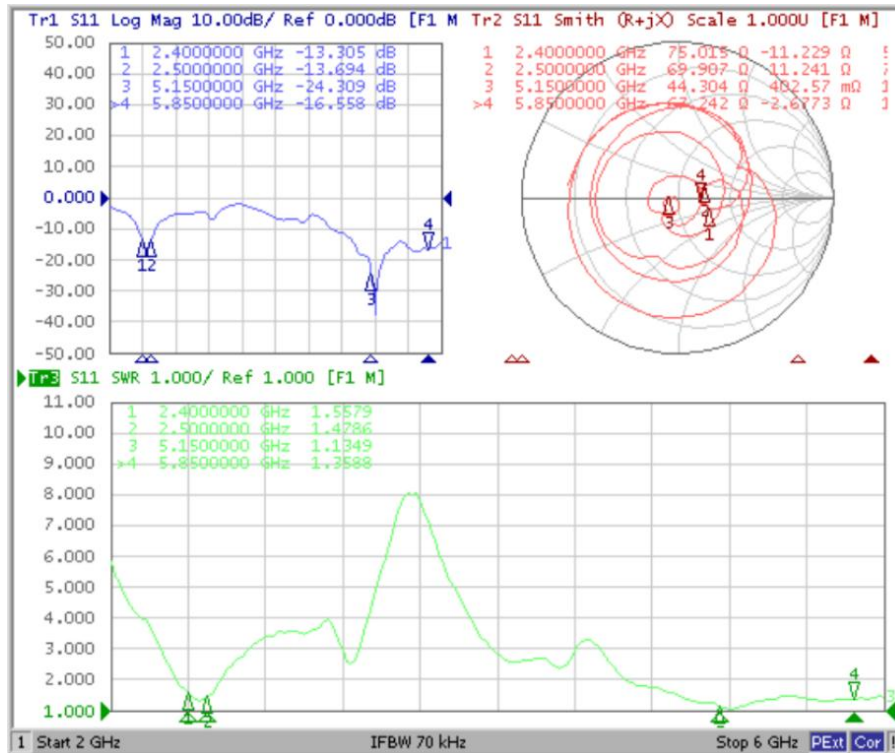
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5、Passive performance test parameters

S11



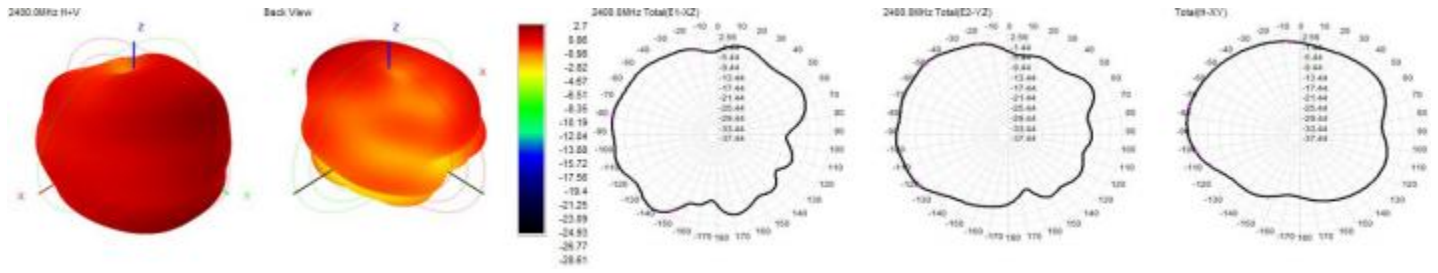
Fre(GHz)	2.4	2.5	5.15	5.85
ReturnLoss	-13.30	-13.69	-24.30	-16.55
VSWR	1.55	1.47	1.13	1.35

效率、增益、方向图

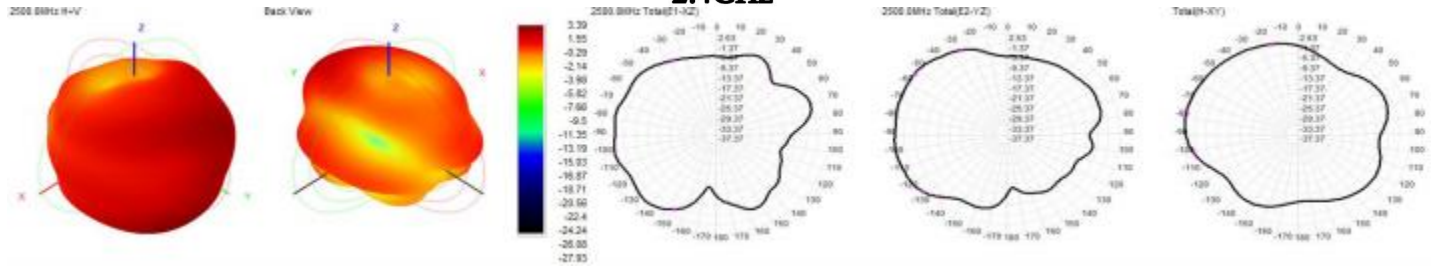


Frequency ID	1	3	5	7	9	11	12	14	16	18	20	22	24	26
Frequency (MHz)	2400.0	2420.0	2440.0	2460.0	2480.0	2500.0	5150.0	5250.0	5350.0	5450.0	5550.0	5650.0	5750.0	5850.0
Efficiency (dBi)	-2.60	-2.61	-3.08	-3.39	-3.03	-2.61	-4.71	-4.91	-3.51	-3.51	-4.15	-4.60	-4.46	-4.21
Gain (dBi)	2.70	2.75	2.63	2.54	2.65	3.39	2.86	2.48	4.01	4.09	3.53	3.30	3.28	3.18
Efficiency (%)	54.95	54.81	49.21	45.78	49.77	54.86	33.80	32.28	44.58	44.59	38.50	34.67	35.81	37.97
Directivity (dB)	5.30	5.36	5.70	5.94	5.68	6.00	7.57	7.39	7.52	7.60	7.67	7.90	7.74	7.38
Peak Gain Position (Theta)	96.00	110.00	98.00	96.00	101.00	108.00	99.00	68.00	96.00	71.00	70.00	69.00	70.00	99.00
Peak Gain Position (Phi)	71.00	62.00	70.00	72.00	69.00	65.00	64.00	91.00	74.00	87.00	89.00	87.00	84.00	63.00
Efficiency ThetaPol (%)	44.13	43.69	39.28	37.66	40.31	44.84	30.68	28.07	40.36	40.98	34.90	30.84	32.28	34.08
Efficiency PhiPol (%)	10.82	11.12	9.93	8.11	9.46	10.02	3.12	4.20	4.23	3.61	3.60	3.83	3.53	3.90
Upper Hem. Efficiency (%)	31.68	30.27	26.30	25.46	28.01	29.56	20.11	17.97	25.14	25.47	22.73	20.81	21.25	22.10
Lower Hem. Efficiency (%)	23.27	24.54	22.92	20.32	21.76	25.31	13.69	14.31	19.44	19.12	15.76	13.86	14.56	15.88

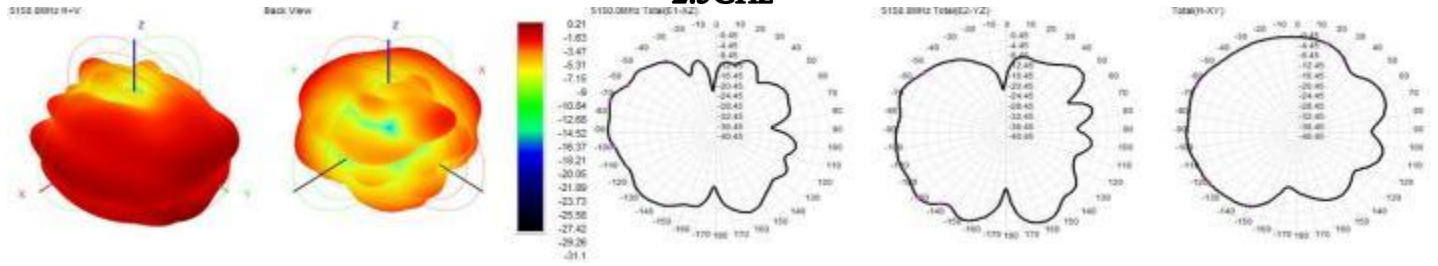
Shenzhen chenxinwei Technology Co.,LTD



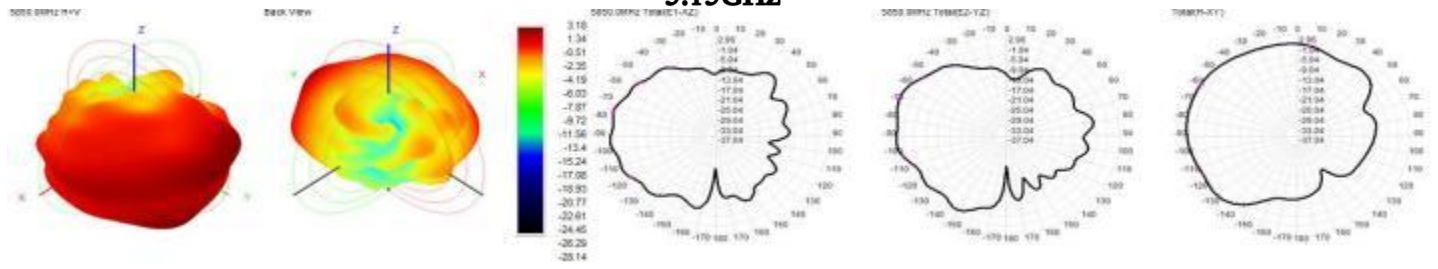
2.4GHz



2.5GHz



5.15GHz



5.85GHz

6、Electrical Performance Test Report

Electrical parameters		
frequency range		2.4-2.5GHz /5.15-5.85GHz
input impedance		50 Ω
standing-wave ratio		<2.0
gain	2.4GHz	3 dBi
	5.8GHz	3 dBi
Polarization mode		cross polarization
radiation direction		omnidirectional
Type of connector		Ipex1
Mechanical parameters		
wire length		120mm
maintenance energy		/
coax		Black 1.13mm
Salt Spray Test		
environmental parameter		
working temperature		-40~85℃

Trial/trial project	steady temperature damp test	Inspection order number
Product Name/Specification	2.4G&5.8G-FPC RF1. 13mm wire, wire length 120mm, Ip ex1	Number of tests: 5PCS
Date of submission: 2023-8-29		Completion date: 2023-8-30
Test/inspection equipment: 1. Programmable constant temperature and humidity test chamber 2. 8753ES network analyzer		
Test/inspection conditions: 1. Test 12H at constant temperature-40℃ 2. +65° 65 ~70%RH test 12H, a total of 24 hours;		
Test Results		
requirement : 1 、 The metal surface should not be cracked, wrinkled, separated, etc.; the non-metal parts should not be discolored, cracked, deformed, delamination and other bad; 2 、 The electrical test meets the standard requirements; the voltage standing wave ratio test is qualified		
Test/inspection determination: ☒ qualified ☐ unqualified ☐ No determination		
test : examine and verify :		

7.2.High and Low Temperature Hot and Cold Shock

Trial/trial project	High and low temperature hot and cold shock	Inspection order number
Product Name/Specification	2. 4G&5. 8G-FPC RF1. 13mm wire, wire length 120mm, Ip ex1	Number of tests: 5PCS
Date of submission: 2023-8-29		Completion date: 2023-8-30
Test/inspection equipment: 1. High and low temperature alternating hot and humid 2. 8753ES network analyzer		
Test/inspection conditions: -40℃ (2H) --interval 80℃ (2H), 6 cycles, a total of 24 hours;		
Test Results		
requirement : 3 、 The metal surface coating should be free from peeling, cracking, wrinkling, separation, etc.; the non- metal parts should not have discoloration, cracking, deformation, delamination and other bad; 4 、 The electrical test meets the standard; the voltage standing wave ratio test is qualified.		
Test/inspection determination: ☒ qualified ☐ unqualified ☐ No		
test : examine and verify :		

8、package specification

Product material number:				
Product Specifications: Built-in Antenna/2.4G&5.8G WiFi/3dBi/50 Ω FPC 43.40X12.00mm RF1.13mm Black Coaxial Cable Length:120mm+1mm Ipex1 connector.				
I. Labeling requirements				
The inner label is 45 long and 70 wide			The outer label is 45 long and 70 wide	
demand			demand	
supplier	Tianfu Intelligent Internet of Things Technology (Shenzhen) Co., LTD		supplier	Tianfu Intelligent Internet of Things Technology (Shenzhen) Co., LTD
Customer order number			Customer order	
Customer part number			Customer part number	
material code			material code	
Name and specification		examination clerk	Name and specification	examination clerk
Quantity/Unit		date of manufacture	Quantity/Unit	date of manufacture
remarks			remarks	
II. Packing requirements				
1. Pack-aged product 50PCS 5000PCS				
2. external packing				
matters need attention:				