

Development Case No.: Y2024012201
Date: 2024.01. 22
Version: A1

acknowledgment letter

Customer name: SJXY

Commissioning items:

Customer Part No.:

Material number: NB03-136510

Specifications: Built-in antenna-2.4G/5.8G-0.3mm thick-foreign white copper

Factory signature:

Compiling	review	approval

The customer acknowledges signature:

Check	review	approval

contact information

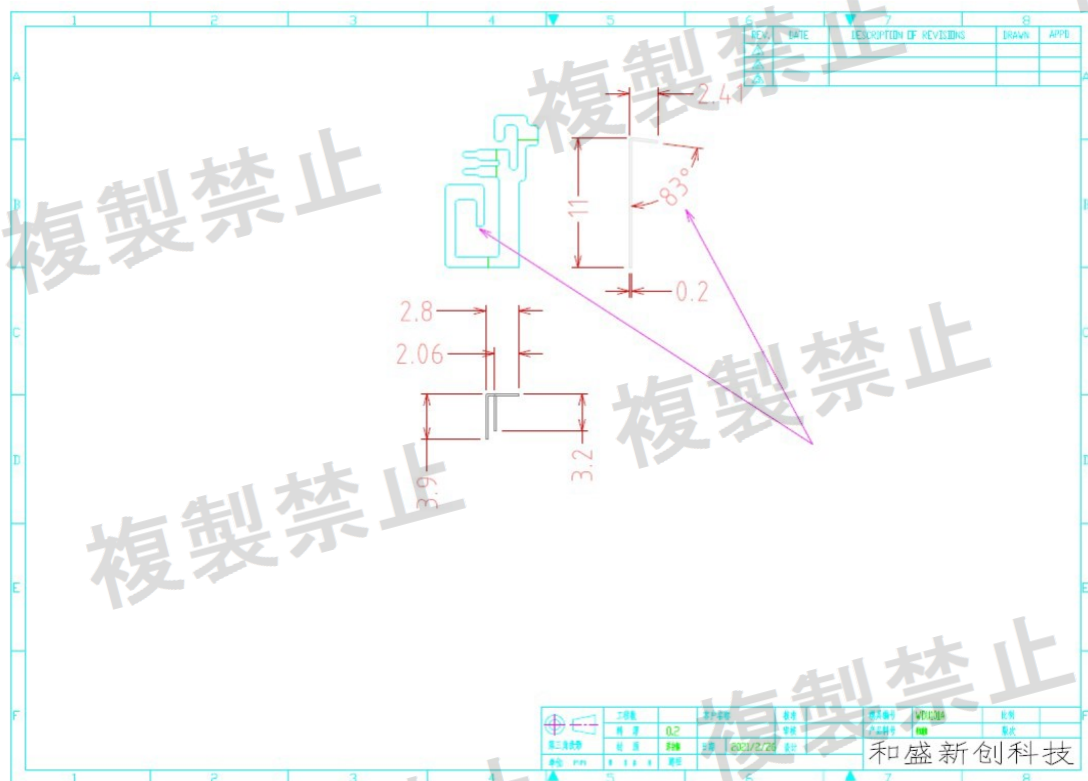
Record of document development/revision/abolition

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Lists

1 Cover.....	1
2, List of contents.....	3
3. Product drawing.....	4
4. Performance parameters table.....	5
5. Electrical performance test report	6-7
6 Table of material composition and harmful substances.....	7
7 2. Packing standard.....	8

3. Product drawing



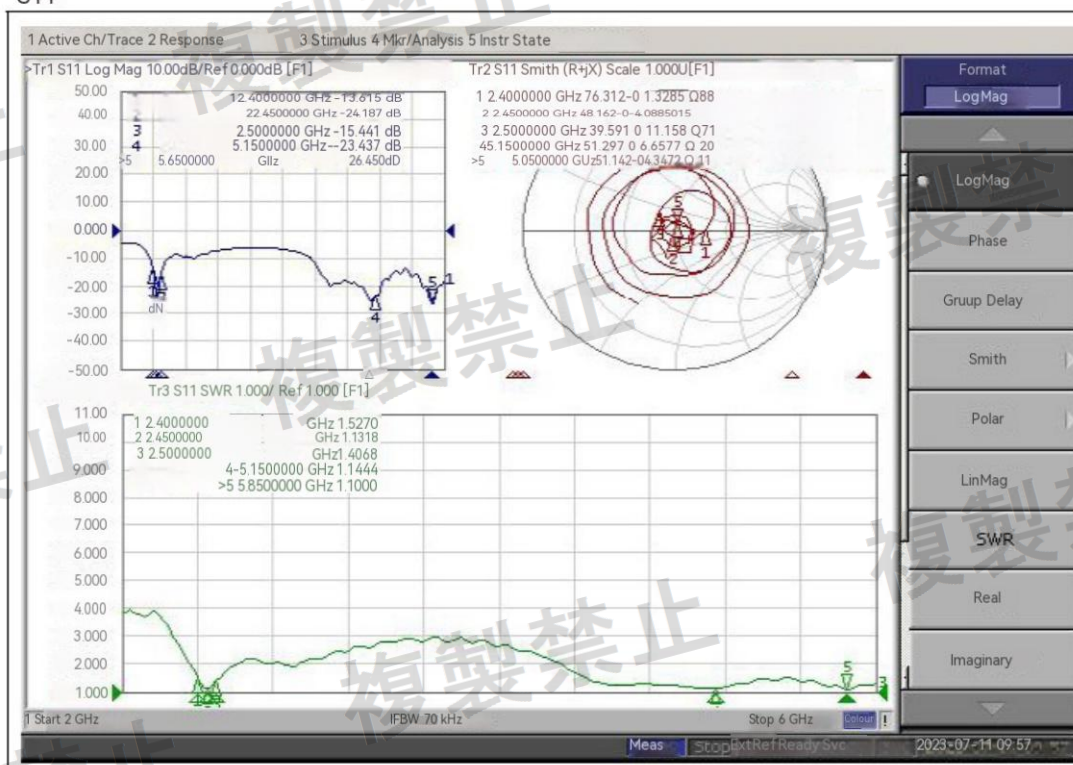
4 Performance parameters

electrical parameters	
frequency range	2400~5800MHz
input impedance	50 Ω
standing wave ratio	<2.0
power capacity	<10w
Polarization mode	linear polarization
radiation direction	all-directional

Fitting model	pin
Mechanical parameters	
Line length	
Terminal holding force	
Terminal plug-in force	
Coax cable	
Salt spray test	24H
Environmental parameters	
working temperature	-30°C~65°C

5. Electrical performance test report (complete machine)

S11



驻波比数据

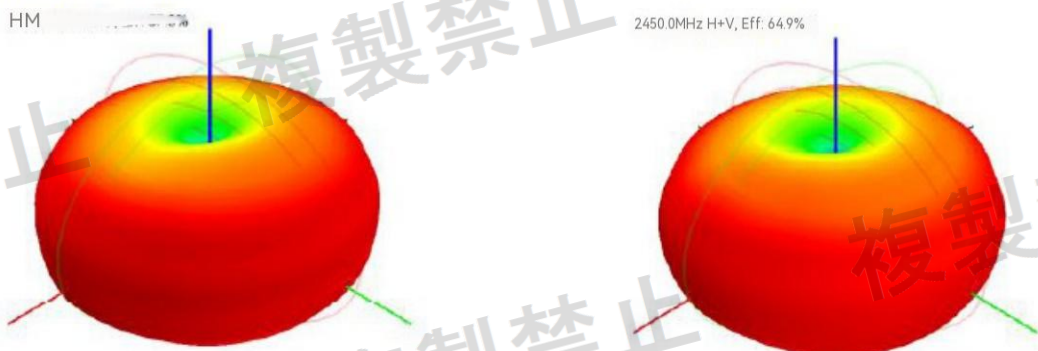
Freq/GHz	2.4	2.45	2.5	5.1	5.85
VSWR	1.52	1.13	1.4	1.14	1.1

- Anechoic chamber test data

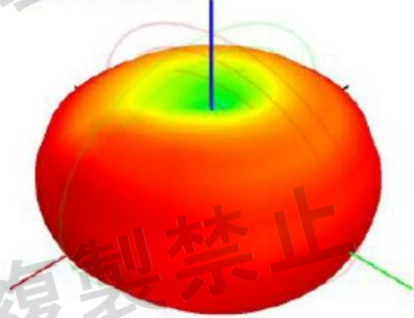
FEITUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-2.44	-2.65	-2.68	-2.72	-2.61	-2.60	-2.22	-2.16	-2.55	-2.88	-2.85
Gain (dBi)	0.99	0.66	0.61	0.80	1.12	1.36	1.40	1.16	0.47	0.09	0.11
Efficiency (%)	57.01	54.36	53.97	53.41	54.87	54.95	60.04	60.76	55.65	51.48	51.84
Directivity (dB)	3.43	3.31	3.28	3.53	3.73	3.96	3.61	3.32	3.01	2.97	2.96
Peak Gain Position (Theta)	95.00	97.00	97.00	111.00	112.00	113.00	83.00	83.00	83.00	83.00	113.00
Peak Gain Position (Phi)	0.00	0.00	0.00	330.00	330.00	330.00	300.00	300.00	300.00	300.00	330.00
Efficiency ThetaPol(%)	55.66	53.09	52.81	52.17	53.64	53.56	58.44	58.84	53.60	49.03	48.94
Efficiency PhiPol (%)	1.35	1.28	1.16	1.24	1.24	1.39	1.60	1.92	2.05	2.46	2.90
Upper Hem. Efficiency (%)	30.38	29.13	28.53	27.45	27.23	26.21	28.28	29.19	26.96	24.18	23.48
Lower Hem. Efficiency (%)	26.63	25.23	25.44	25.96	27.64	28.74	31.76	31.57	28.69	27.30	28.36

FEITUKEJI																
Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0	
Efficiency (dBi)	-3.90	-3.82	-3.43	-3.06	-4.77	-3.98	-4.51	-4.03	-4.36	-4.48	-4.40	-4.18	-4.75	-4.66	-5.49	
Gain(dBi)	0.10	-0.27	0.51	1.02	-0.17	0.58	0.50	1.02	0.08	-0.29	0.26	0.02	-0.38	-0.82	-2.23	
Efficiency (%)	40.70	41.50	45.41	49.47	33.34	39.97	35.41	39.51	36.61	35.64	36.32	38.23	33.53	34.19	28.27	
Directivity (dB)	4.01	3.55	3.94	4.08	4.60	4.56	5.01	5.05	4.45	4.19	4.66	4.20	4.37	3.84	3.26	
Peak Gain Position (Theta)	89.00	103.00	104.00	92.00	98.00	91.00	92.00	99.00	109.00	95.00	109.00	95.00	96.00	97.00	82.00	
Peak Gain Position (Phi)	300.00	330.00	330.00	300.00	30.00	30.00	30.00	30.00	330.00	30.00	330.00	30.00	30.00	30.00	60.00	
Efficiency ThetaPol(%)	37.49	38.31	41.68	46.33	30.29	37.09	32.67	36.69	34.08	33.22	33.28	34.84	29.81	30.63	24.88	
Efficiency PhiPol(%)	3.20	3.19	3.72	3.15	3.05	2.87	2.74	2.83	2.53	2.42	3.04	3.39	3.73	3.56	3.39	
Upper Hem. Efficiency (%)	22.69	22.82	24.92	26.89	16.89	21.04	18.05	20.11	18.41	18.45	18.87	21.03	19.05	20.01	17.03	
Lower Hem. Efficiency (%)	18.01	18.69	20.49	22.59	16.46	18.93	17.37	19.40	18.19	17.18	17.45	17.20	14.49	14.18	11.24	

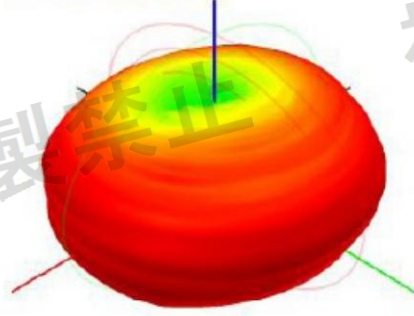
-Antenna direction diagram



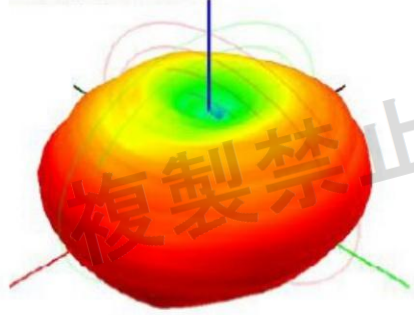
2600.0MHz H+V, Eff: 61.8%



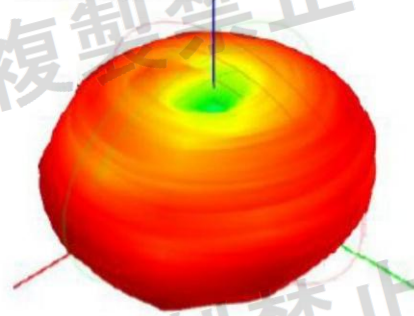
5150.0MHz H+V, Eff: 40.7%



6600.0MHz H+V, Eff: 39.5%



58000MHz H+V, B1: 34.2%



6 Table of material composition and harmful substances

item number	Standard	material	RoHS test results (PPM)						ICP test number	detection time
			Cd	Pb	Hg	Cr+6	PBB	PBDE		
1	iron piece	Ocean white copper	ND	ND	ND	ND	ND	ND	NGBMR23000169901	2023/2/6

Product packaging specifications Packing CRITERION

Product No.: NB03-136510

Product specifications: Built-in antenna-2.4G/5.8G iron antenna 0.3mm thick

I. Labeling requirements (Refer to the requirements for making finished labels based on the customer name. If there is no requirement, follow the requirements for common labels.)

The inner label is about 50mm long and about

60mm wide

demand side	*****		
supplier	Electronic Technology Co., Ltd		
material code	*****		
production order No	*****		
Product name and specification	*****	inspector	**
Qty/unit	*****	date	*****
traceability code	*****	serial number	**

External label length X formula x 0 width X formula x 1 Left and right

demand side	*****		
supplier	Electronic Technology Co., Ltd		
material code	*****		
production order No	*****		
Product name and specification	*****	inspector	**
Qty/unit	*****	date	*****
traceability code	*****	serial number	**

II. Packing requirements

Job Description:

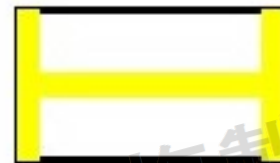
External packaging:

1. inner packaging: Plastic box product 100 PCS/layer

2. External packaging: The quantity/box is determined according to the actual packaging

Precautions:

1. Whether to add partitions and pearl cotton;
2. Label attachment, such as ROHS;



纸箱

