



Approval Sheet

Customer	Jin dong fang	Data	2023/03/21
Product	BT Antennas	Models	W121
P/N	B172	Customer P/N	
Specifications	Black FPC; Gold finger plating		

Vender Approved By	Customer Approved By
	
Checked By:	Checked By:
Audit By:	Audit By:
Approval By:	Approval By:

File Revision Table

Version	Revise The Content	Revused	Approval	Date	Note



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Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4G BT
Antenna From	FPC
Impedance	50 Ω
Polarization	Linear
Peak Effi	16%@2.4G
Peak Gain	-2.7dBi@2.4G

1.2 Physical Properties

Characteristics	Specifications
Operating Temp	-10°C~+60°C
Storage Temp	-10°C~+70°C
Humidity	10~95%RH

Antenna Placement



Antenna Measured

Test environment: Open space (channel)
Test distance: 15M
Test result: OK

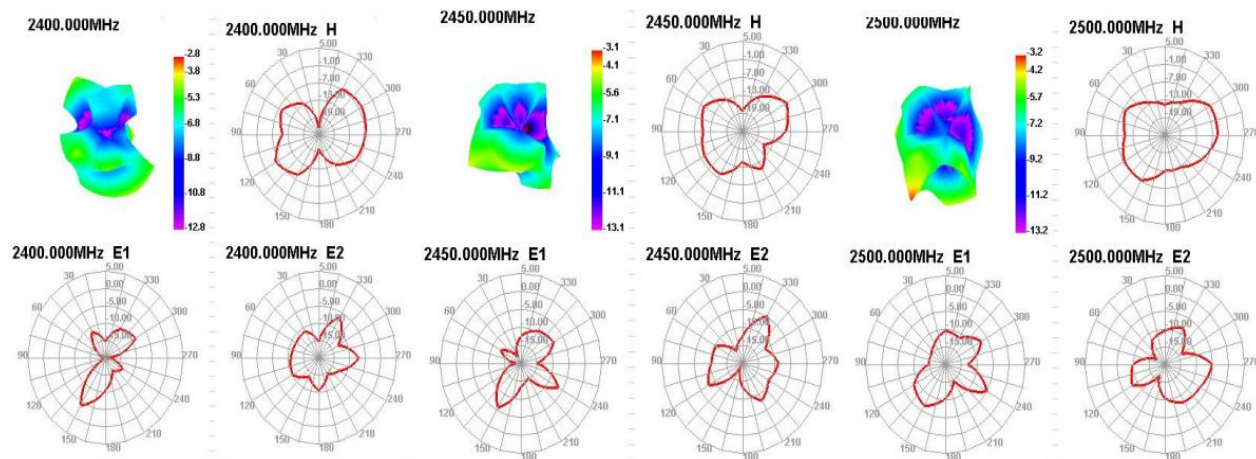
Test Data

Efficiency Table

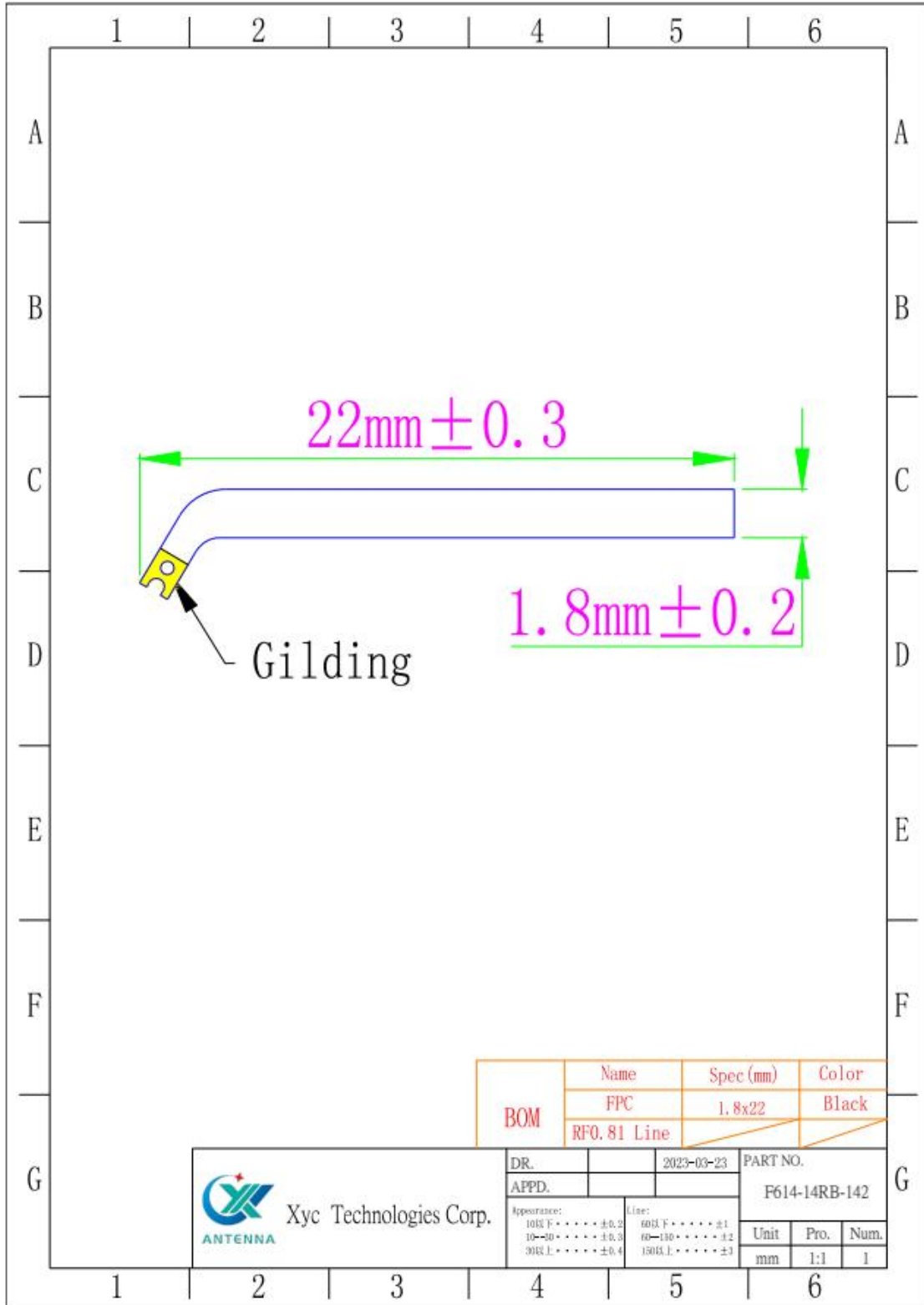
Passive Test For WIFI2.4

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)
2400	9.68	-10.14	-2.78	-4.93	4.834	4.849	-2.78	-22.85
2410	8.31	-10.8	-3.26	-5.41	3.936	4.376	-3.26	-23.31
2420	9.27	-10.33	-2.98	-5.13	4.303	4.967	-2.98	-23.01
2430	10.45	-9.81	-2.83	-4.98	5.007	5.445	-2.83	-21.03
2440	11.05	-9.57	-3.05	-5.2	5.38	5.669	-3.05	-20.75
2450	11.56	-9.37	-3.1	-5.25	5.51	6.045	-3.1	-19.45
2460	12.49	-9.04	-3.11	-5.26	5.774	6.713	-3.11	-18.67
2470	13.25	-8.78	-3.44	-5.59	5.937	7.309	-3.44	-17.18
2480	14.52	-8.38	-3.63	-5.78	6.359	8.158	-3.63	-15.94
2490	16.01	-7.96	-3.14	-5.29	6.93	9.076	-3.14	-15.97
2500	14.74	-8.31	-3.16	-5.31	6.465	8.278	-3.16	-17.95

Radiation Pattern



Antenna Assembly





Inspection Standard

Xyc Technologies Corp.	File Cod.	XYC-WI-PZ-02	Page.
	File Vers.	A0	1 of 1
File Name	Sampling Plan		

Sampling Level Table

Special Check				General			Batch Scope	Sample Word	Sampling	0.65		1.0		1.5		2.5		4.0		6.0	
S-1	S-2	S-3	S-4	I	II	III				AC	RE	AC	RE	AC	RE	AC	RE	AC	RE	AC	RE
A	A	A	A	A	A	B	2--8	A	2	0	1	0	1	0	1	0	1	0	1	0	1
A	A	A	A	A	B	C	9--15	B	3	0	1	0	1	0	1	0	1	0	1	0	1
A	A	B	B	B	C	D	16--25	C	5	0	1	0	1	0	1	0	1	0	1	1	2
A	B	B	C	C	D	E	26--50	D	8	0	1	0	1	0	1	0	1	1	2	1	2
B	B	C	C	C	E	F	51--90	E	13	0	1	0	1	0	1	1	2	1	2	2	3
B	B	C	D	D	F	G	91--150	F	20	0	1	0	1	1	2	1	2	2	3	3	4
B	C	D	E	E	G	H	151--280	G	32	0	1	1	2	1	2	2	3	3	4	5	6
B	C	D	E	F	H	J	281--500	H	50	1	2	1	2	2	3	3	4	5	6	7	8
C	C	E	F	G	J	K	501--1200	J	80	1	2	2	3	3	4	5	6	7	8	10	11
C	D	E	G	H	K	L	1201--3200	K	125	2	3	3	4	5	6	7	8	10	11	14	15
C	D	F	G	J	L	M	3201--10000	L	200	3	4	5	6	7	8	10	11	14	15	21	22
C	D	F	H	K	M	N	10001-35000	M	315	5	6	7	8	10	11	14	15	21	22	21	22
D	E	G	J	L	N	P	35001-150000	N	500	7	8	10	11	14	15	21	22	21	22	21	22
D	E	G	J	M	P	Q	150001-500000	P	800	10	11	14	15	21	22	21	22	21	22	21	22
D	E	H	K	N	Q	R	500001and over	Q	1250	14	15	21	22	21	22	21	22	21	22	21	22
								R	2000	21	22	21	22	21	22	21	22	21	22	21	22

AC-Qualified RE-No Qualified



Outgoing Inspection Report

Customer	jindongfang	Product	BT Antennas	Quantity shipped	5	Sampling quantity	2	
Models	W121	P/N	B172	Shipping date	2023/03/23			
Sampling standard	<input checked="" type="checkbox"/> Normal inspection <input type="checkbox"/> Tightened inspection <input type="checkbox"/> Decrement inspection							
Sampling mode	MIL-STD-105D (II) Single sampling Acceptance limit AQL:CR: 0 Maj: 2.5 Min: 4.0							
Quality acceptance level			CR Acc	0	Maj ACC	0	Min ACC	0
			CR REJ	1	Maj REJ	1	Min REJ	1
project	program of tests	examination requirement	test method	inspection result				decide
				1	2	3	4	
Dimensional inspection	FPC shape	1.8mm±0.2	calliper	1.8	1.8			OK
	FPC shape	22mm±0.3	calliper	22	21.9			OK
project	program of tests	examination requirement	test method	Defect description	CR	Maj	Min	判定
visual inspection	Silk screen printing	The silk screen printing must be consistent with the product drawing	visual	No abnormality	0	0	0	OK
	Ink	Ink needs to be complete, no bad injection oil	visual	No abnormality	0	0	0	OK
	Goldfinger	No oxidation, no scratching phenomenon	visual	No abnormality	0	0	0	OK
electrical specification								
final judgment	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG							

FORM ID NO: XYC-WF-PZ-001

Packing Specification

