

SPECIFICATION FOR APPROVAL

PRODUCT NAME: 2.4G/5.8G Antenna

Electronic Material Number

UB P/N: UB01C120P3D3681A REV: A

Version Revision Record:

releases	proposer	dates	revised record
V-A		March 27, 2023	first draft (of writing)
	MANUFACTURER SIGNATURE		CUSTOMER SIGNATURE
CHECKED BY:			
APPROVED BY:			
DATE:			

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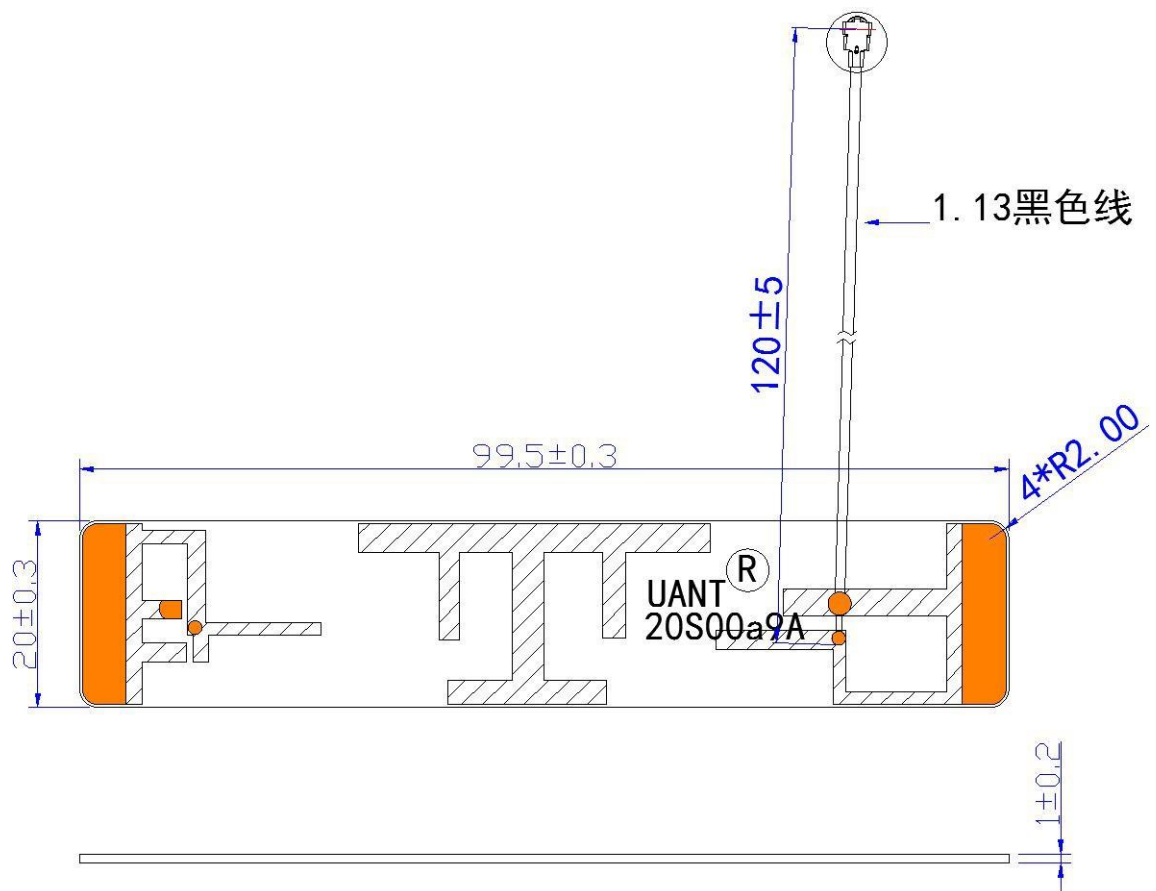
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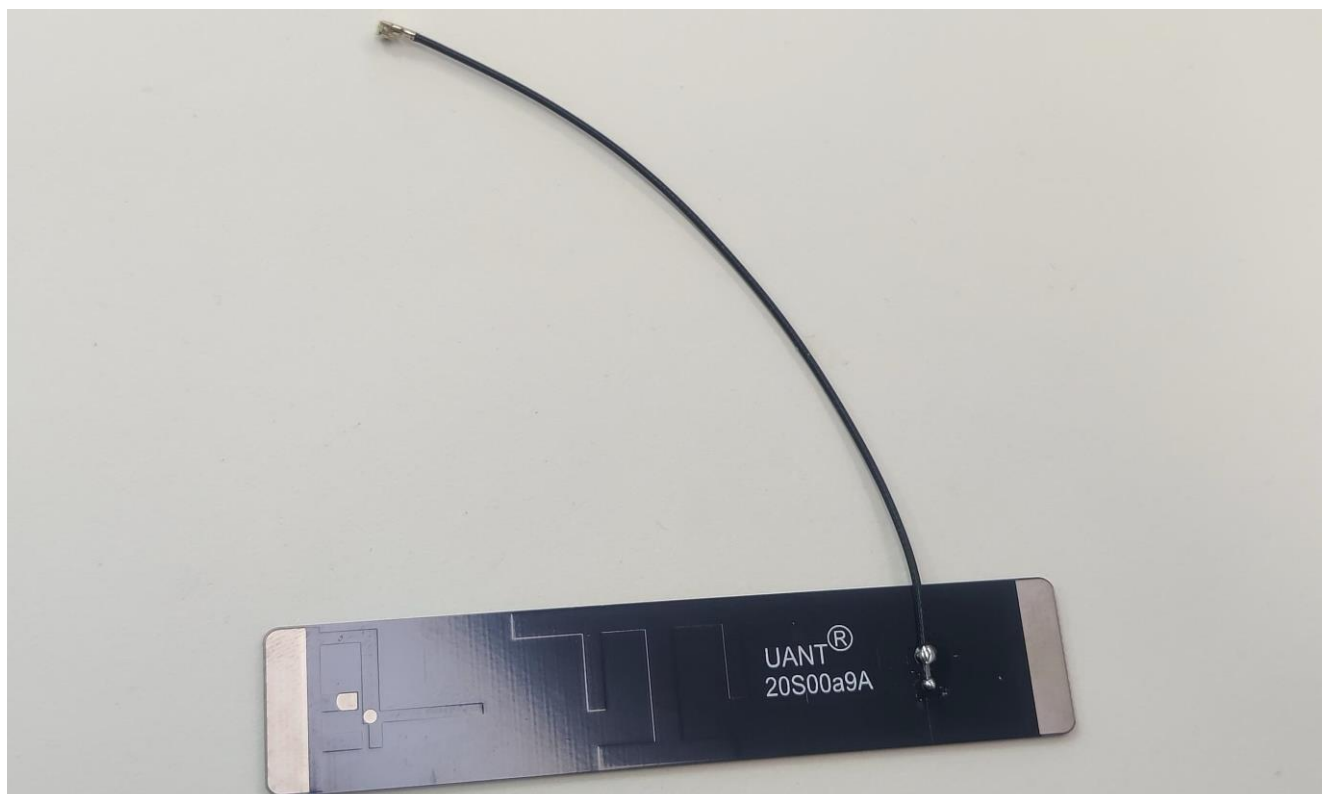
1 specification sheet

Band	Wi-Fi Antenna 2400~2500MHz&5150-5850Mhz
Typology	PIFA
Arts and crafts	PCB
Sizes	99.5*20*1mm
Exterior condition	Black PCB
Characteristic impedance	50Ω
Polarize	linear polarization
VSWR	< 1.92
Efficiency	26~35%@2400~2500MHz ; 26~37%@5100~5850MHz
Gain	1.45dbi@2400~2500MHz ; 2.34dbi@5150~5850MHz
Orientation	omnidirectional antenna
Active input	passive
Feeder Losses	0.5dB·m ⁻¹ @1GHz · 1dB·m ⁻¹ @3GHz · 3dB·m ⁻¹ @6GHz

2 size

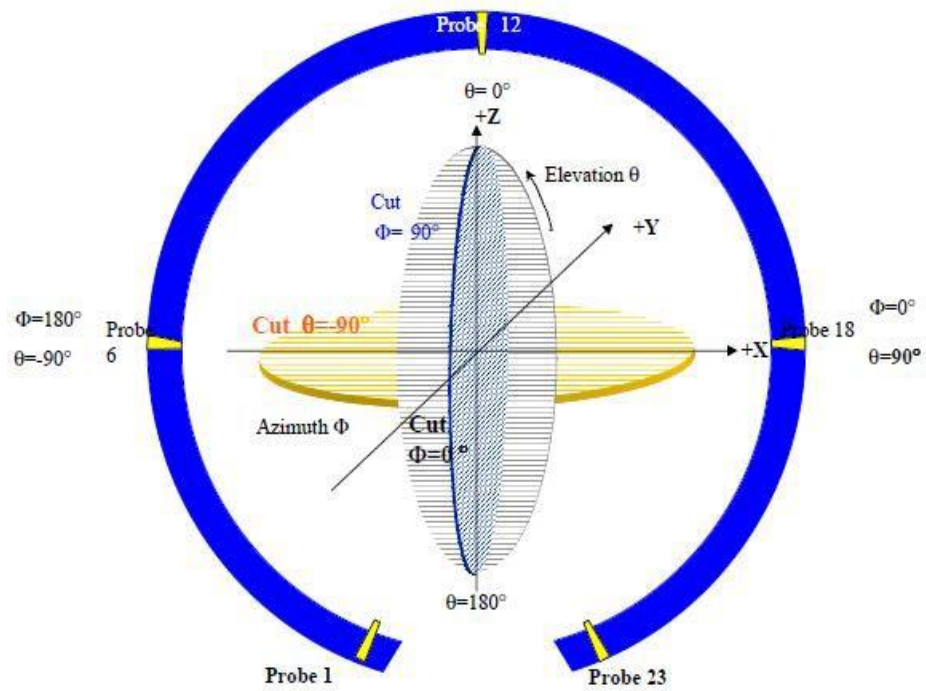


3.1 Product Picture



4.1 Passive test

4.1.1 Set up



4.1.2 Return Loss



Frequency (MHz)	2400	2450	2500	5150	5500	5850
Return Loss (dB)	-13.44	-16.36	-7.19	-5.44	-11.67	-5.98

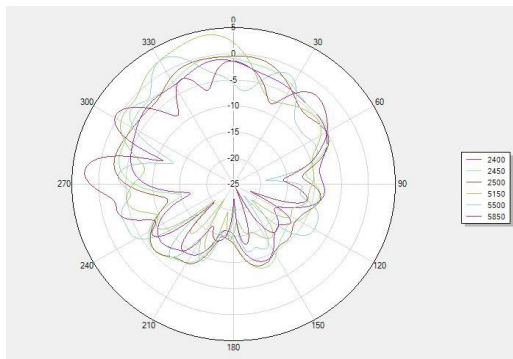
4.1.3 Test Data

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dB
2400	-5.34	29.27	1.94
2410	-5.22	30.09	2.01
2420	-5.04	31.3	2.16
2430	-4.92	32.24	2.35
2440	-4.77	33.38	2.45
2450	-4.78	33.3	2.42
2460	-4.94	32.39	2.45
2470	-5.14	30.65	2.35
2480	-5.49	28.28	2.08
2490	-5.44	28.6	2.14
2500	-5.61	27.51	2.08
5150	-4.79	33.16	2.34
5200	-4.33	36.86	2.66

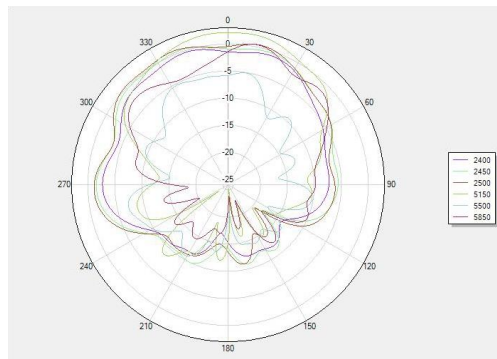
Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dB
5250	-4.37	36.52	2.45
5300	-5.26	29.76	1.48
5350	-4.45	35.86	1.82
5400	-4.61	34.57	2.45
5450	-4.35	36.71	1.84
5500	-4.15	38.45	2.88
5550	-4.79	33.16	1.75
5600	-4.58	34.81	1.96
5650	-4.78	33.86	2.59
5700	-4.42	36.11	2.06
5750	-4.69	33.93	2.26
5800	-4.93	32.33	1.85
5850	-4.95	31.96	1.62



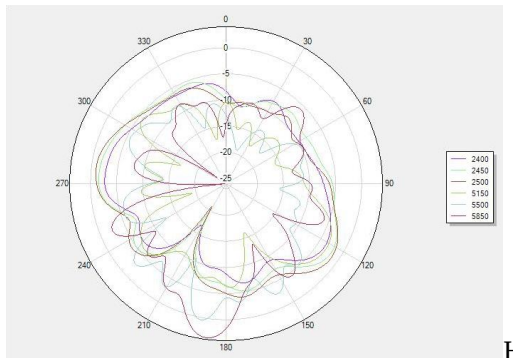
4.1.4 2D



E1

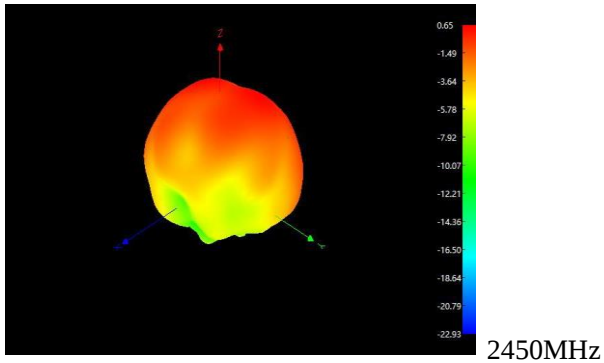


E2



H

4.1.5 3D



2450MHz

