

Antenna specification

APPROVAL

Customer	LCHSE	frequency band	2400MHZ~2500MHZ
project name	X6s	versions	PCB V1.3
Material number	ANT-A2	colour	/
Antenna vendor	JingXun		
designed By	Yao Hong guang	Day	2024-04-06
QA Manager By		Day	
Approved By		Day	
Confirmed by Customer		Day	

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1. antenna parameters

Right ear antenna

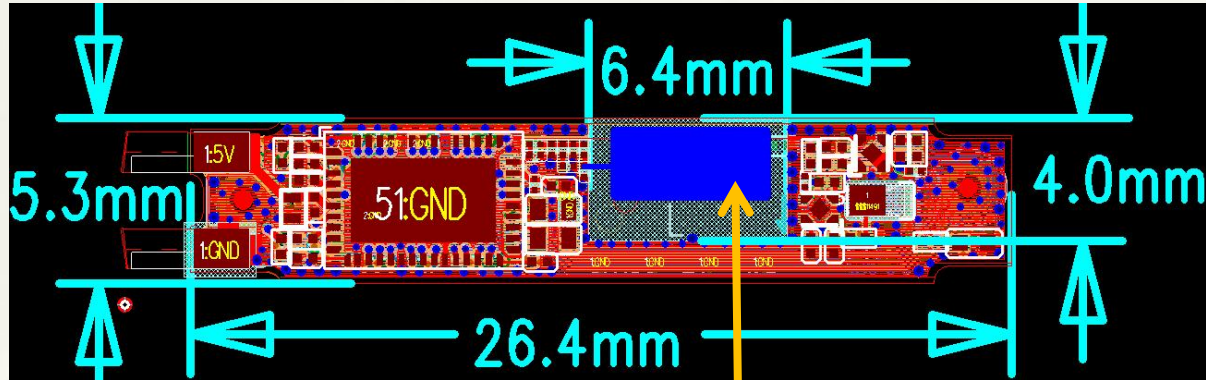
Frequency	2400~2500MHZ
Effi AVG	39.85%
PK Gain	1.09dBi
SWR	<3
Antenna Type	On board ANT
PART NO	ANT-A2
Antenna size	6.4 x 4mm

Left ear antenna

Frequency	2400~2500MHZ
Effi AVG	35.05%
PK Gain	0.59dBi
SWR	<3
Antenna Type	On board ANT
PART NO	ANT-A2
Antenna size	6.4 x 4mm

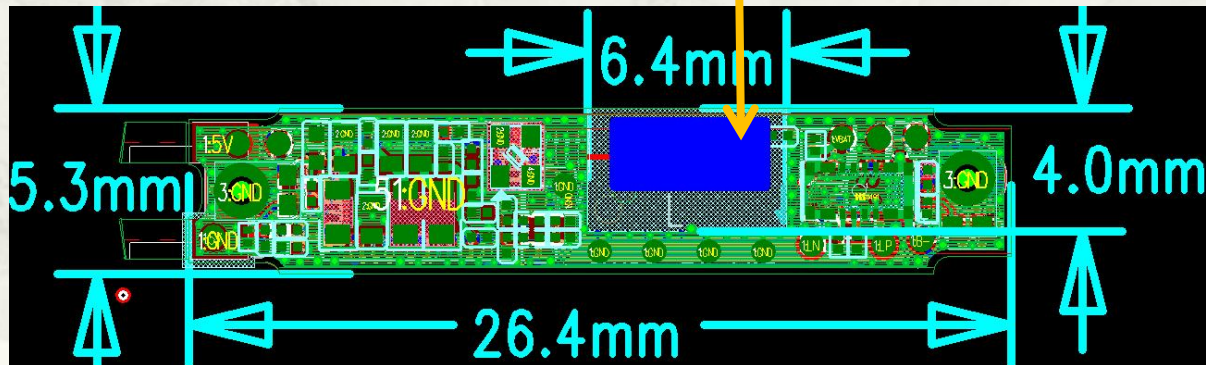
2. Antenna appearance and dimensions

TOP



Antenna location

BOTTOM



Antenna size: 6.4 x 4mm
right and left earphones share PCB

3. Detailed information about antenna parameters

3.2 Right ear antenna efficiency

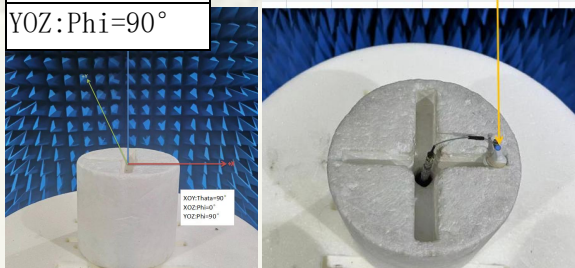
Free space			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain(dBi)
2400	38.41	-4.16	0.83
2410	38.9	-4.1	0.68
2420	38.96	-4.09	0.59
2430	39.27	-4.06	0.68
2440	39.45	-4.04	0.79
2450	39.75	-4.01	0.98
2460	39.96	-3.98	1.07
2470	40.3	-3.95	1.05
2480	41.08	-3.86	1.01
2490	41.38	-3.83	1.09
2500	40.89	-3.88	1.03
AVG	39.85	-4.00	0.89

XOY:Thata=90°

XOZ:Phi=0°

YOZ:Phi=90°

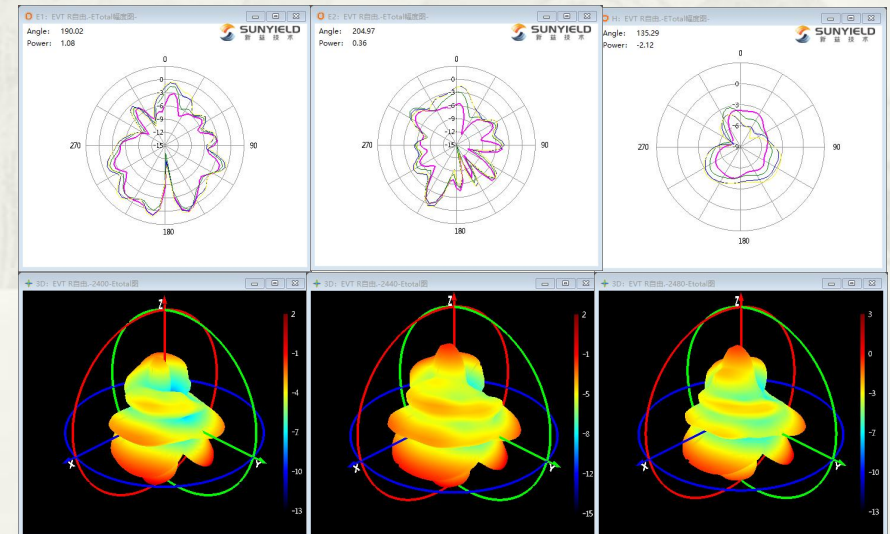
antenna location



S11 Parameters



Antenna pattern:



3. Detailed information about antenna parameters

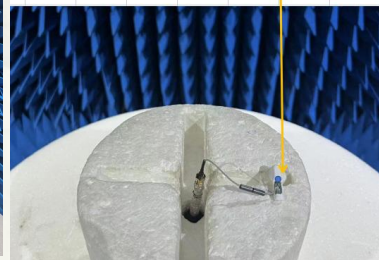
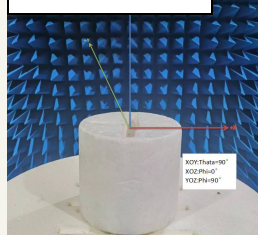
3.2 Left ear antenna efficiency

Free space			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain(dBi)
2400	33.83	-4.71	0.35
2410	33.92	-4.7	0.22
2420	34.53	-4.62	0.06
2430	34.77	-4.59	0
2440	35.36	-4.51	0.07
2450	35.28	-4.52	0.04
2460	35.67	-4.48	0.09
2470	36.68	-4.36	0.59
2480	35.56	-4.49	0.35
2490	35.48	-4.5	0.51
2500	34.52	-4.62	0.33
AVG	35.05	-4.55	0.24

XOY:Thata=90°

XOZ:Phi=0°

YOZ:Phi=90°

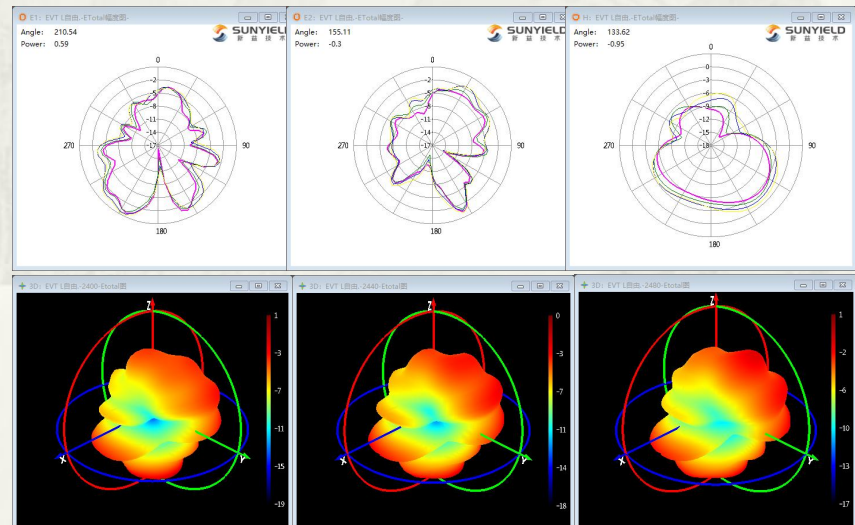


antenna location

S11 Parameters



Antenna pattern:





The End