



Antenna Part Specification

Customer name:	EDIFIER
Project name:	X5 EVO
Material category:	BT ANTENNA-L-FPC
Version:	V2.0
Date:	2025.03.20
Manufacturer Address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china



Contents

I: The report of passive data	3
II: 3D Active test report of antenna	5
III: Matching circuit.....	5
IV: Filter circuit.....	5
V: Structure file	6

Change record			
Compile / change date	Reason for change	Changed content	Version
2025.03.13	first edition	first edition	V1.0
2025.03.20	Update image files	Update image files	V2.0

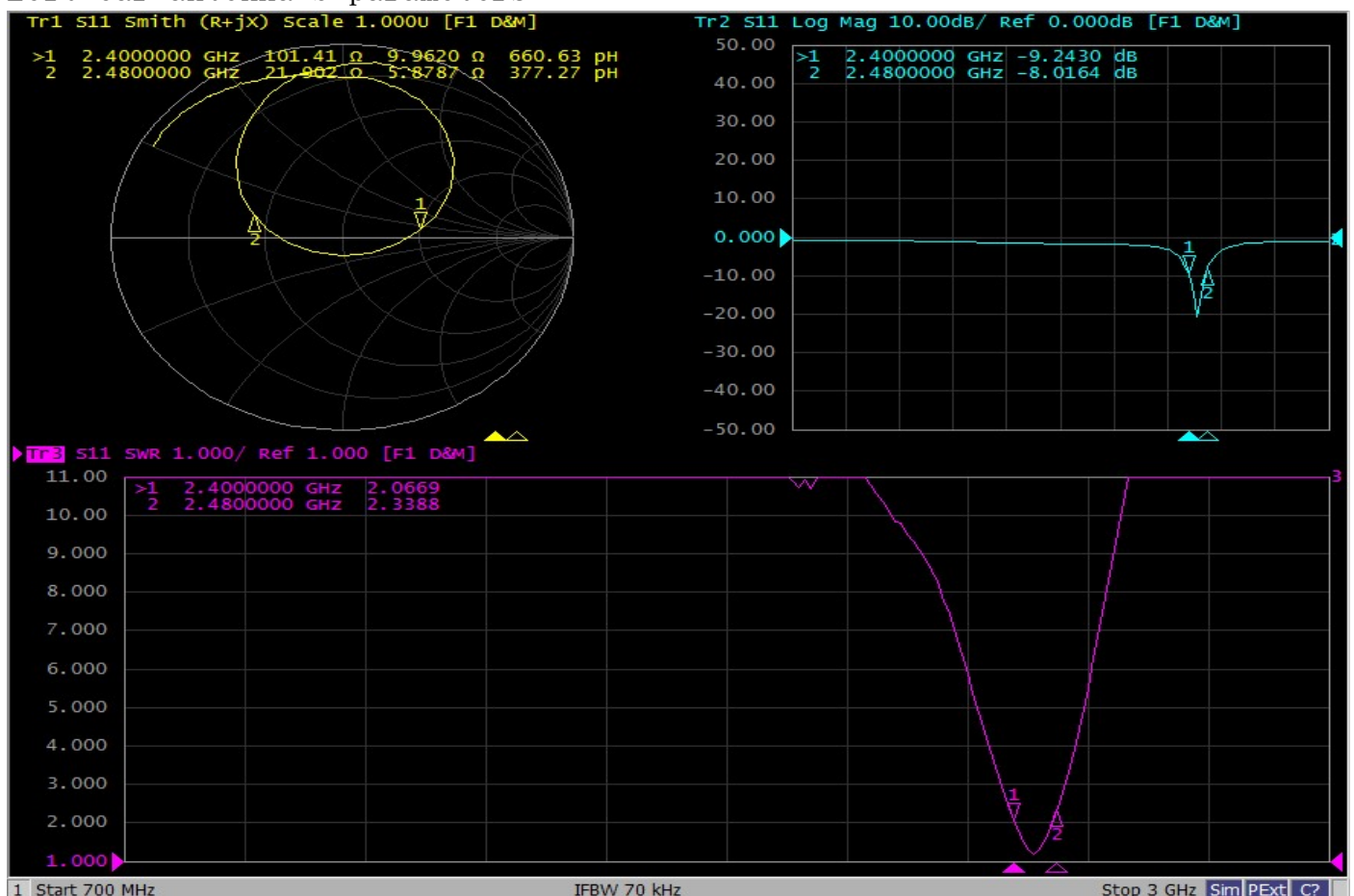


I: The report of passive data



Angilent E5071C

Left ear antenna S parameters



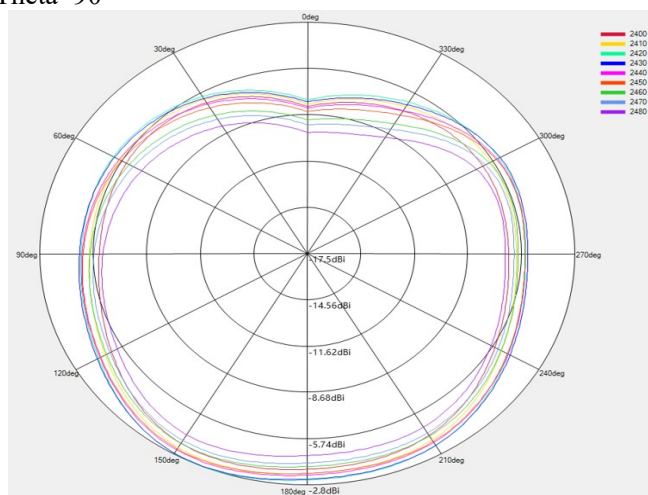


Efficiency and gain of left ear antenna:

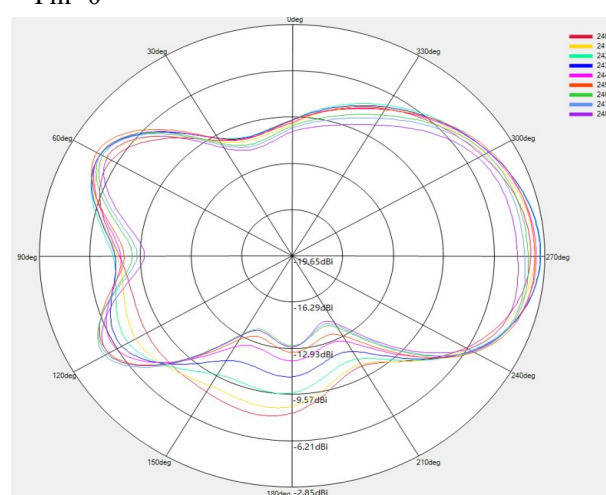
L FS			
Frequency MHz	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-3.60	-6.98	20.05
2410	-3.29	-6.68	21.48
2420	-2.85	-6.39	22.97
2430	-2.87	-6.38	23.03
2440	-3.11	-6.46	22.58
2450	-3.19	-6.36	23.12
2460	-3.59	-6.64	21.69
2470	-3.80	-6.77	21.05
2480	-4.22	-7.13	19.37
Average value	-3.39	-6.64	21.71

Left ear antenna wireless passive 2D directional pattern:

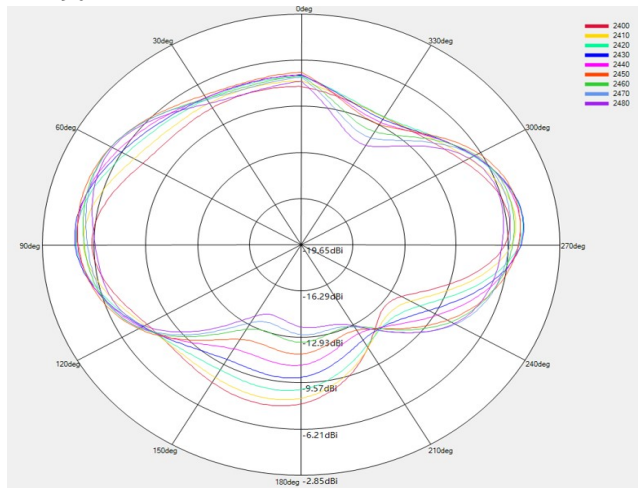
Theta=90°



Phi=0°



Phi=90°





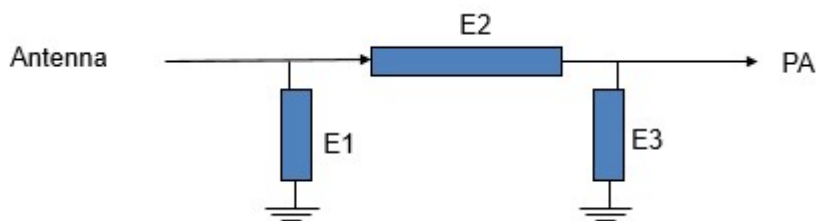
II: 3D Active test report of antenna

		free space		headform	
L	Channel	TRP	TIS	TRP	TIS
	CH 0	5.9	-85.5	-1.1	-80.2
	CH 2	6.0	-91.2	-0.9	-86.6
	CH 39	6.5	-91.9	0.7	-86.8
	CH 78	3.2	-91.9	-2.9	-86.8



OTA Standard Chamber

III: Matching circuit

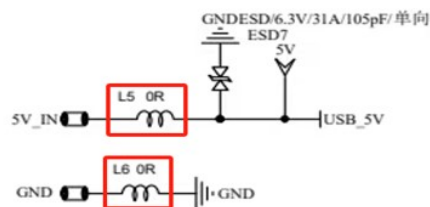


Element	Value
E1(0201)	N/A
E2(0201)	2.0pF
E3(0201)	2.0nH

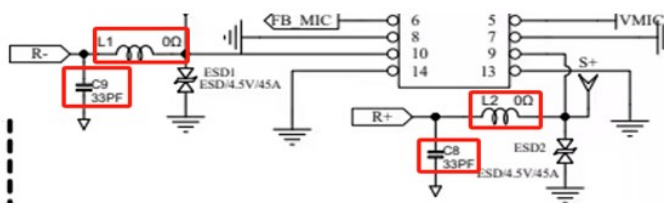
IV: Filter circuit



Touch string position changed to 33nH



Element	Value
L5	0Ω
L6	0Ω
L1	15nH
L2	15nH
C8	cancel
C9	cancel
R7	33nH



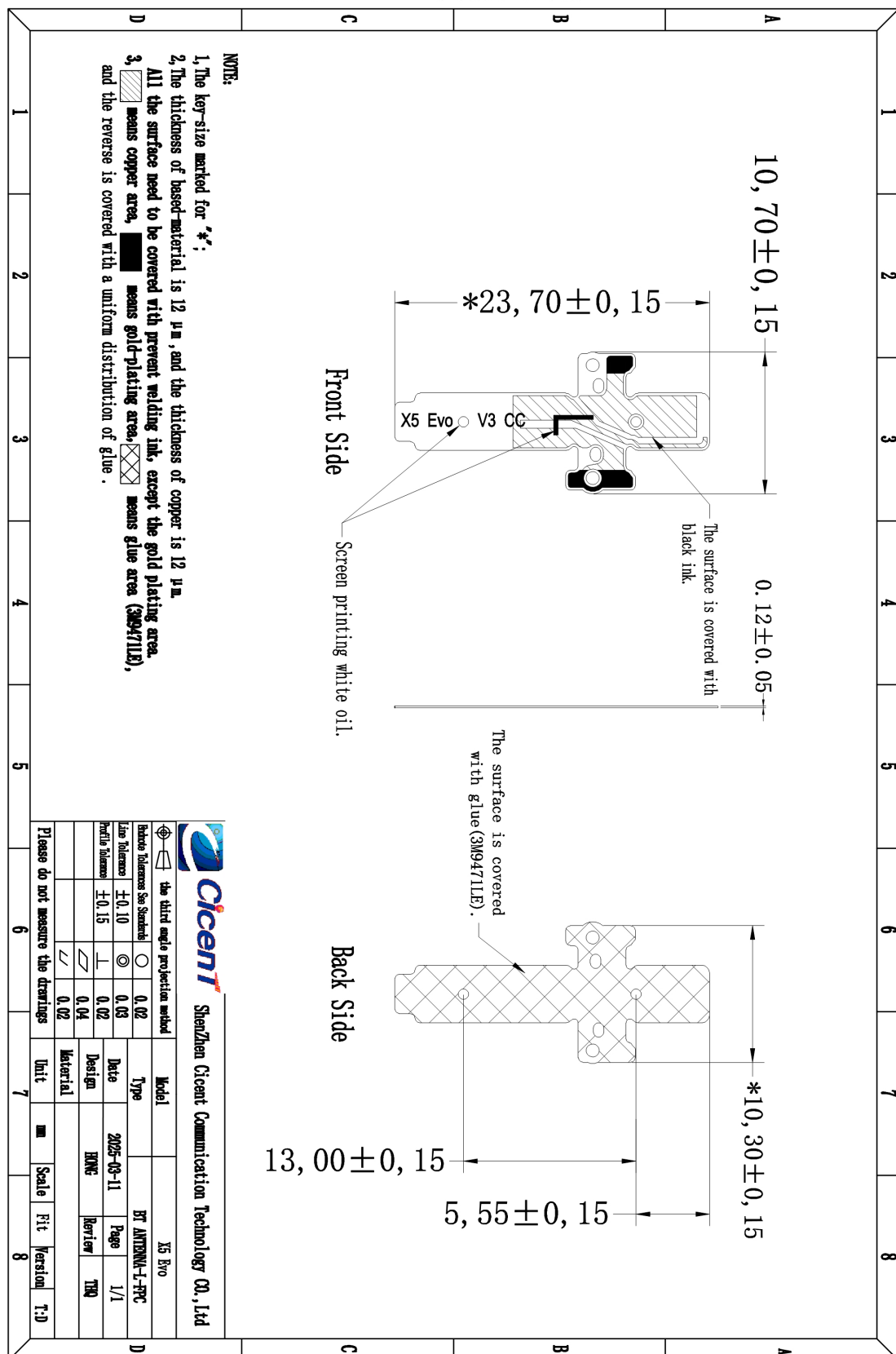
Cancel the C8/C9 parallel capacitors of SPK, replace L1/L2 with 15nH inductors, and replace L5/L6 with 0 Ω.



V: Structure file

由 Autodesk 教育版产品制作

由 Autodesk 教育版产品制作



由 Autodesk 教育版产品制作

由 Autodesk 教育版产品制作