

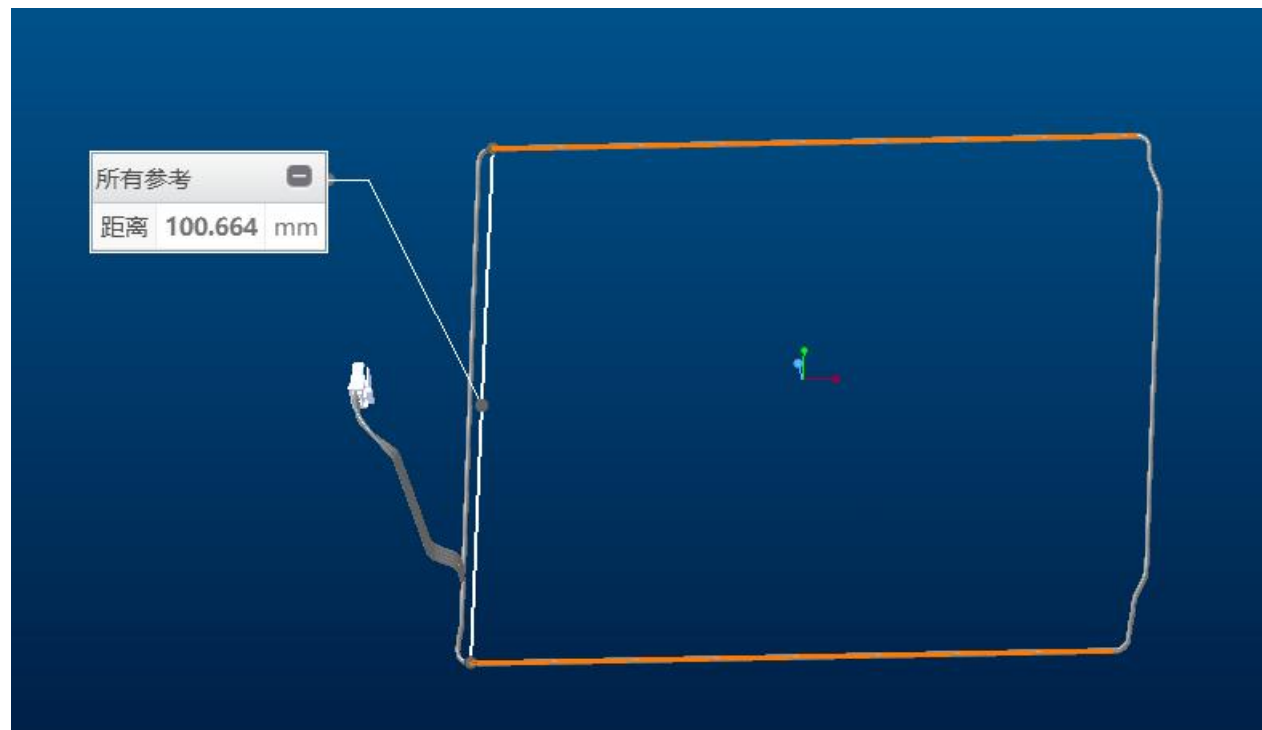
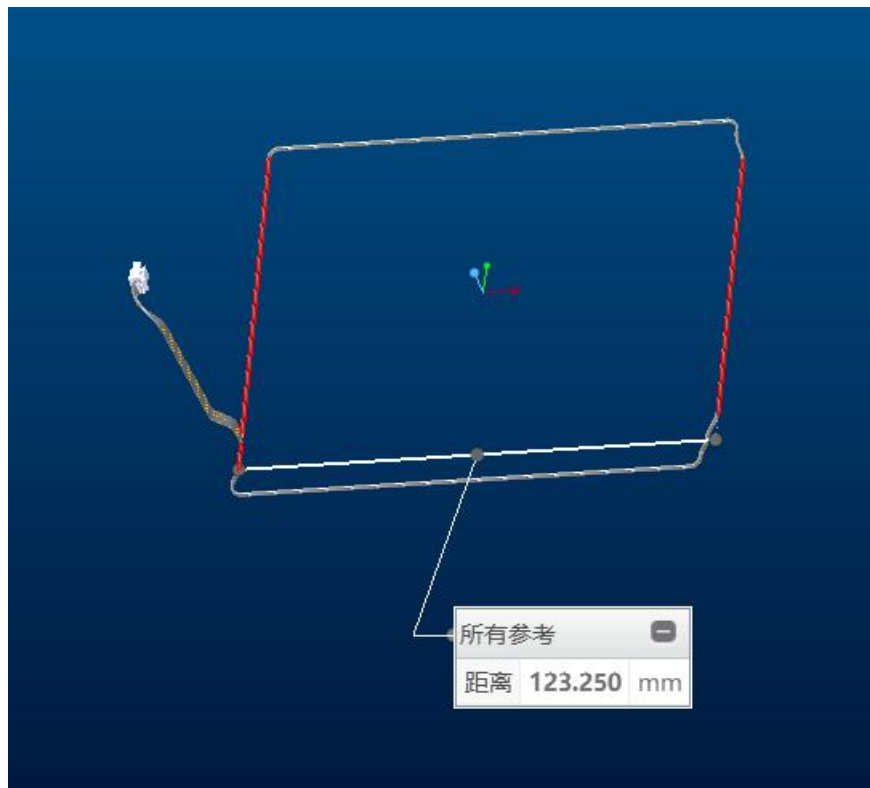
K0161-单圈NFC天线-单圈

K0161-NFC-Single coil

2025\06\10

NFC天线-单圈

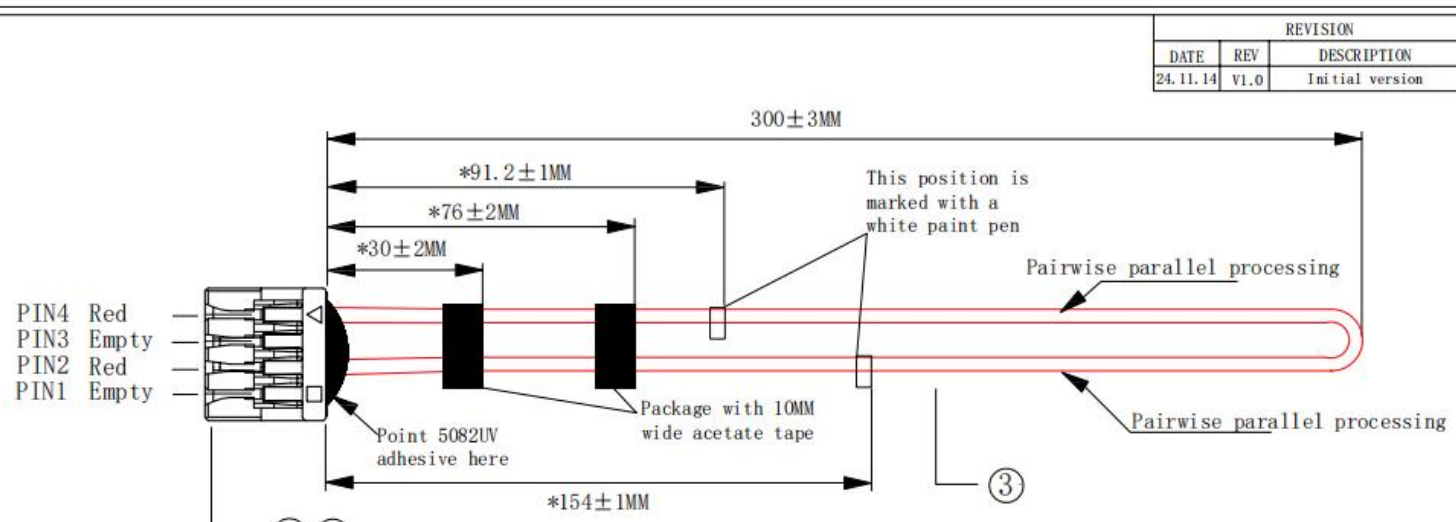
NFC-Single coil



NFC天线-单圈 NFC-Single coil

Manufacturer: XMSN Model:XMSN-A003-125-04-235

REVISION			
DATE	REV	DESCRIPTION	DESIGN
24.11.14	V1.0	Initial version	QIANG



PIN1	Red
PIN2	Empty
PIN3	Red
PIN4	Empty

Unit:mm

NO.	MATERIAL NAME AND NAME	QT'Y	U/M
③	WIRE:UL1571 28AWG RED TS:7*0.127 OD:0.9	1	PCS
②	TERNINAL:A1257H-TP-S-N	2	PCS
①	HOUSING A1257H-04P-0-NA-N	1	PCS

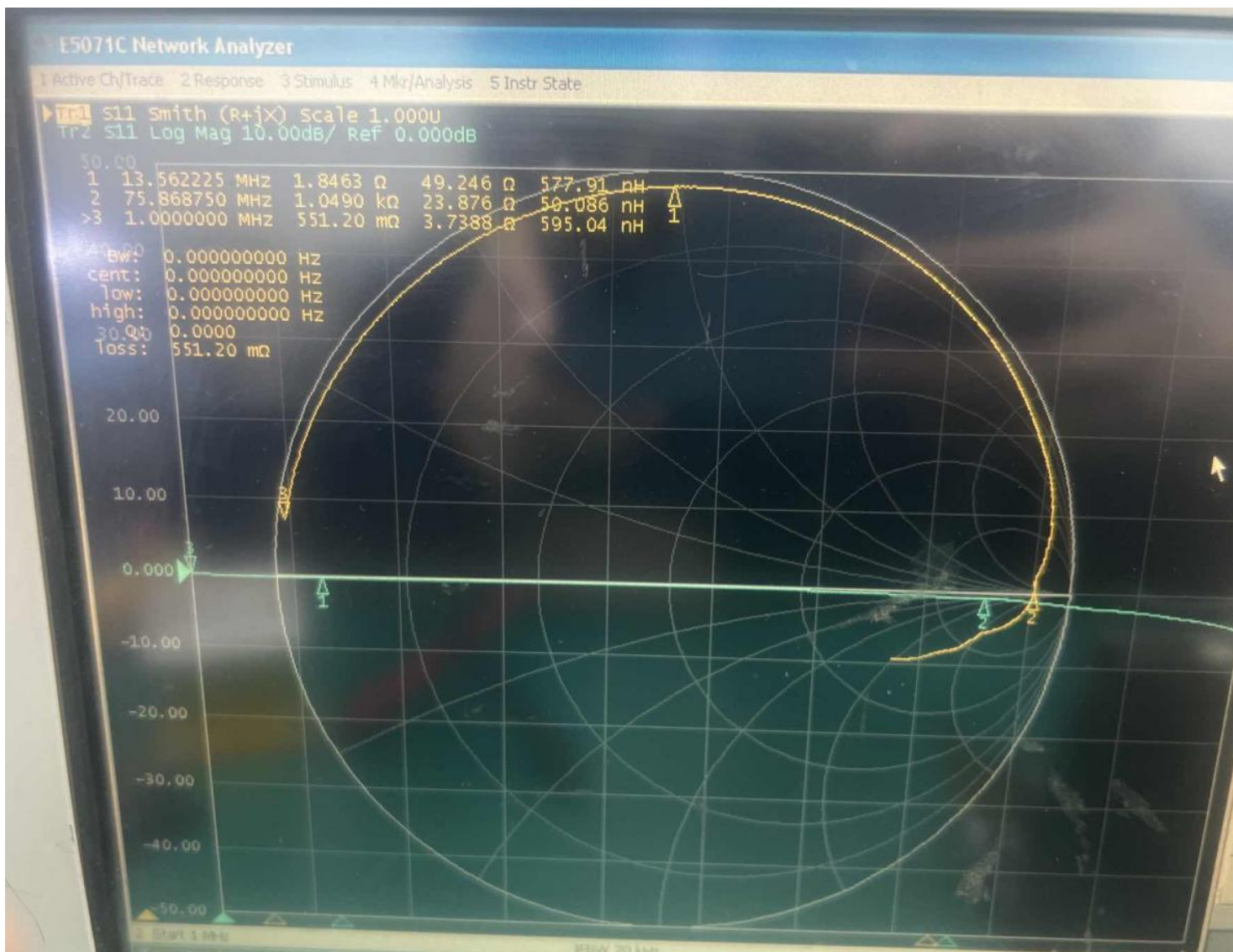
Technical requirements:

- The wiring harness needs to be flexible and easy to bend.
- The bending life of the wiring harness is required to be folded 180 degrees 30 times without any functional abnormalities.
- The antenna wire diameter requires an inner diameter of 0.40mm and an outer diameter of 0.90mm.
- The red size represents the CPK and incoming inspection dimensions, and no dimensional tolerance is indicated. Please refer to the dimensional tolerance table.
- 1-4 conduction, 2-3 conduction.
- 1-2 parallel line, 3-4 parallel line.
- Finished products are not allowed to have defects such as damage, oil stains, bending, deformation, etc.
- All materials used must be lead-free.

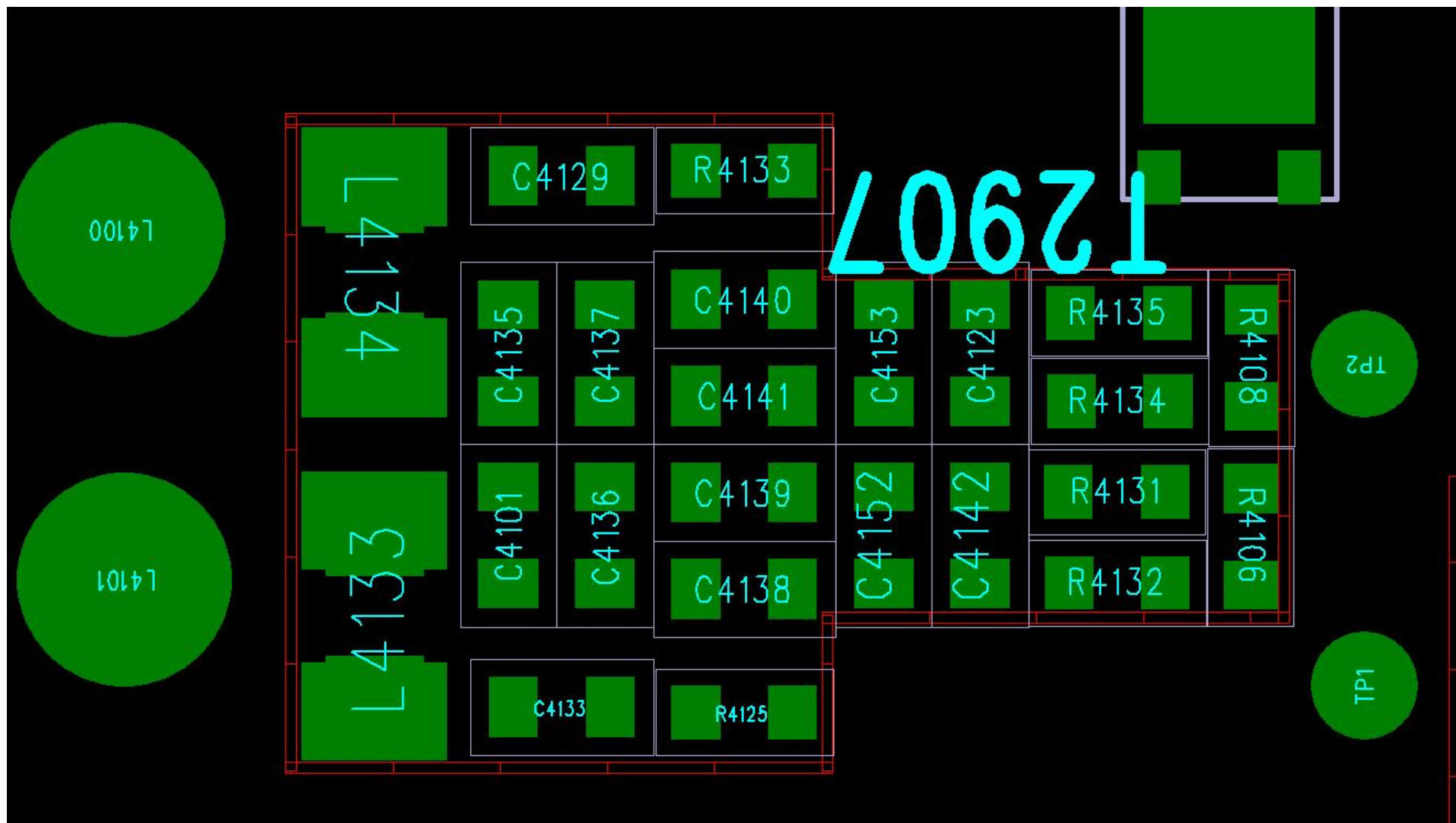
REVISION	DATE	DESCRIPTION	APPROVAL BY	DRAW BY	DESIGNED BY	SCALE	DATE	NO.	NAME
△				Li Huaming	Chen Jun	1:1	2024/11/14		
				Liu JianMing	Liu Jin				

XMSN 深圳市旭美尚诺科技有限公司 ConnectorsSHENZHEN XMSN TECHNOLOGY CO.,LTD	XMSN-A003-125-04-235
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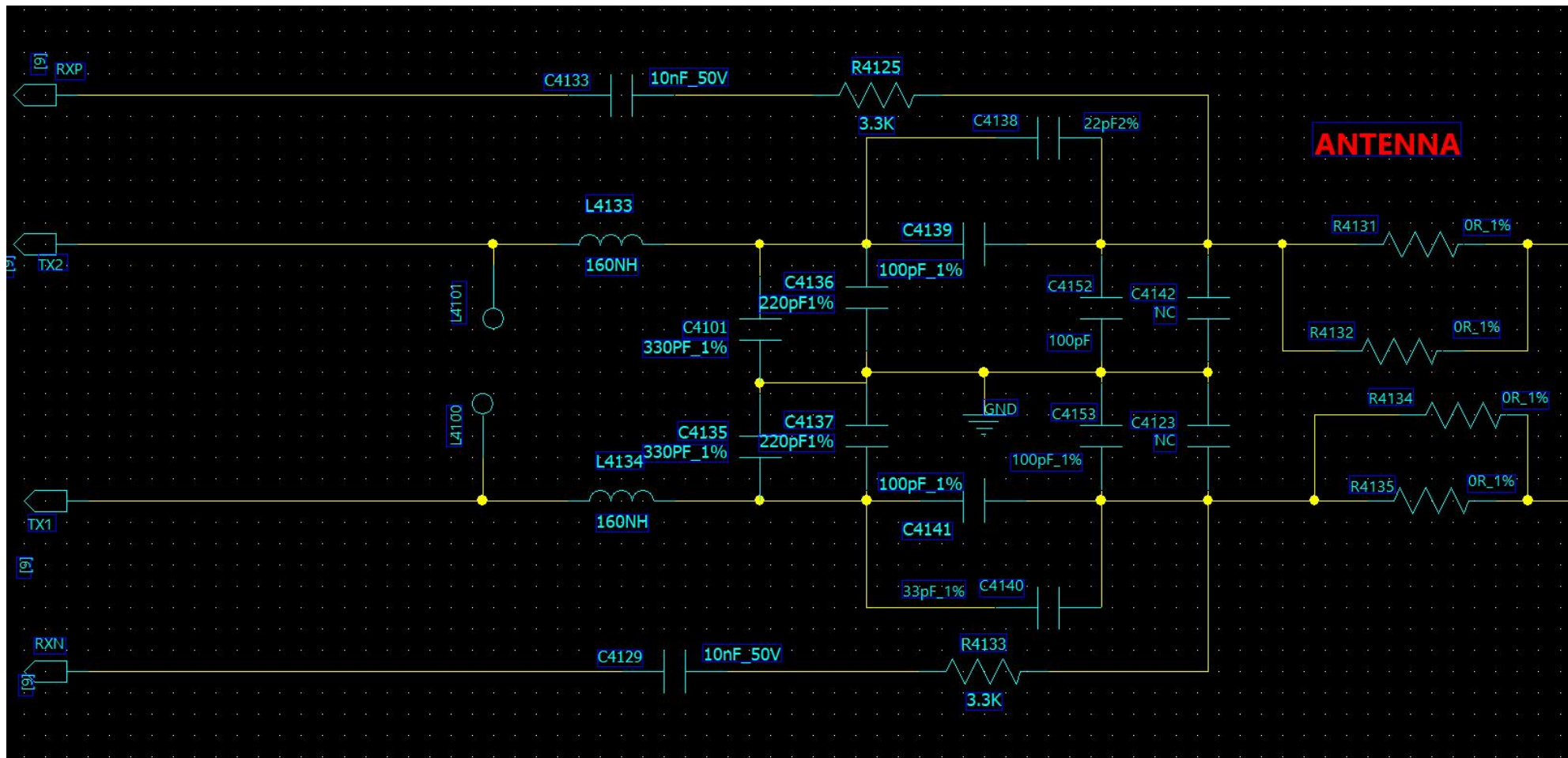
线圈参数 Coil Parameters



位号图-Location



电路图 - schematic

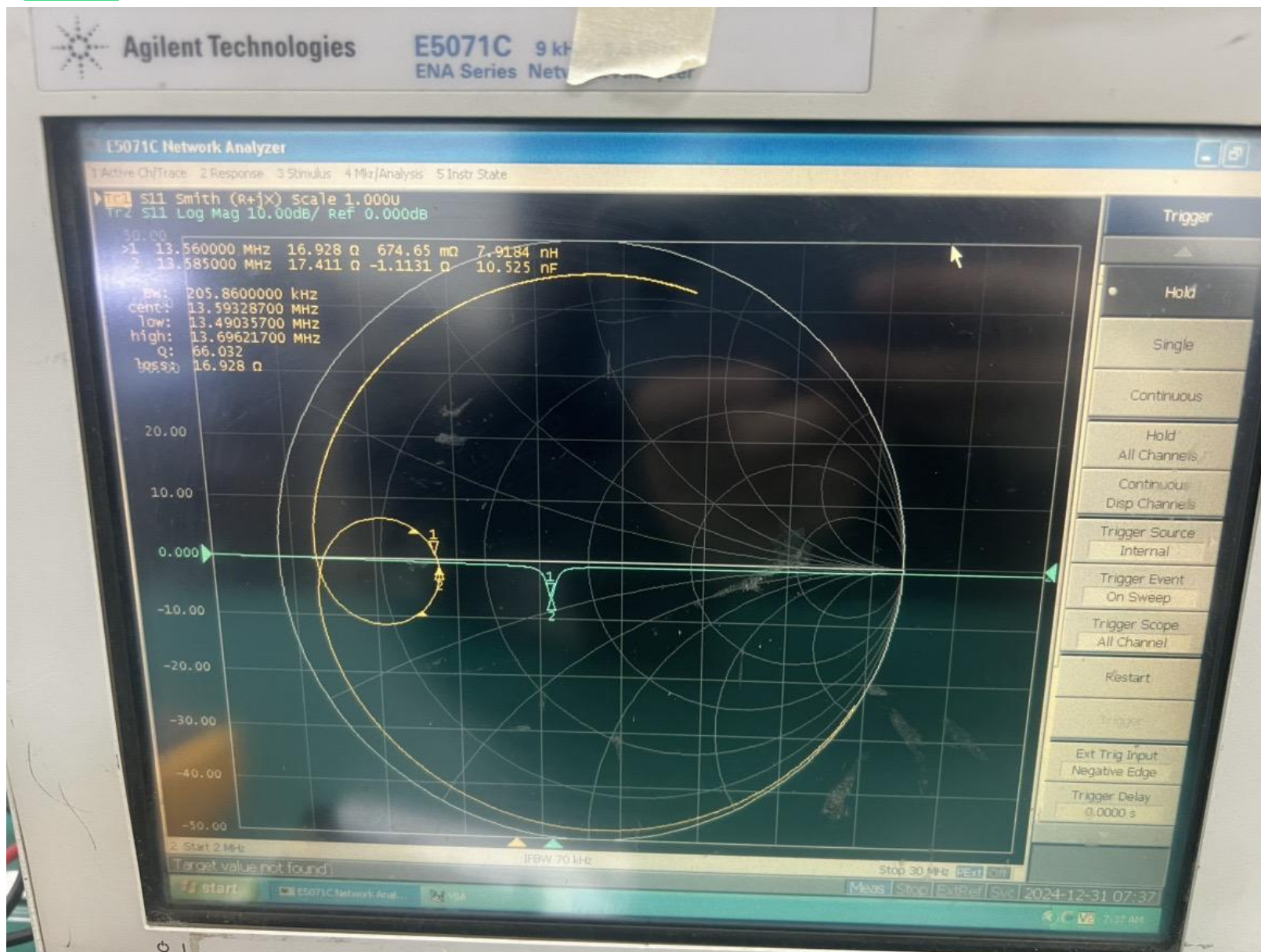


天线匹配-Antenna Matching

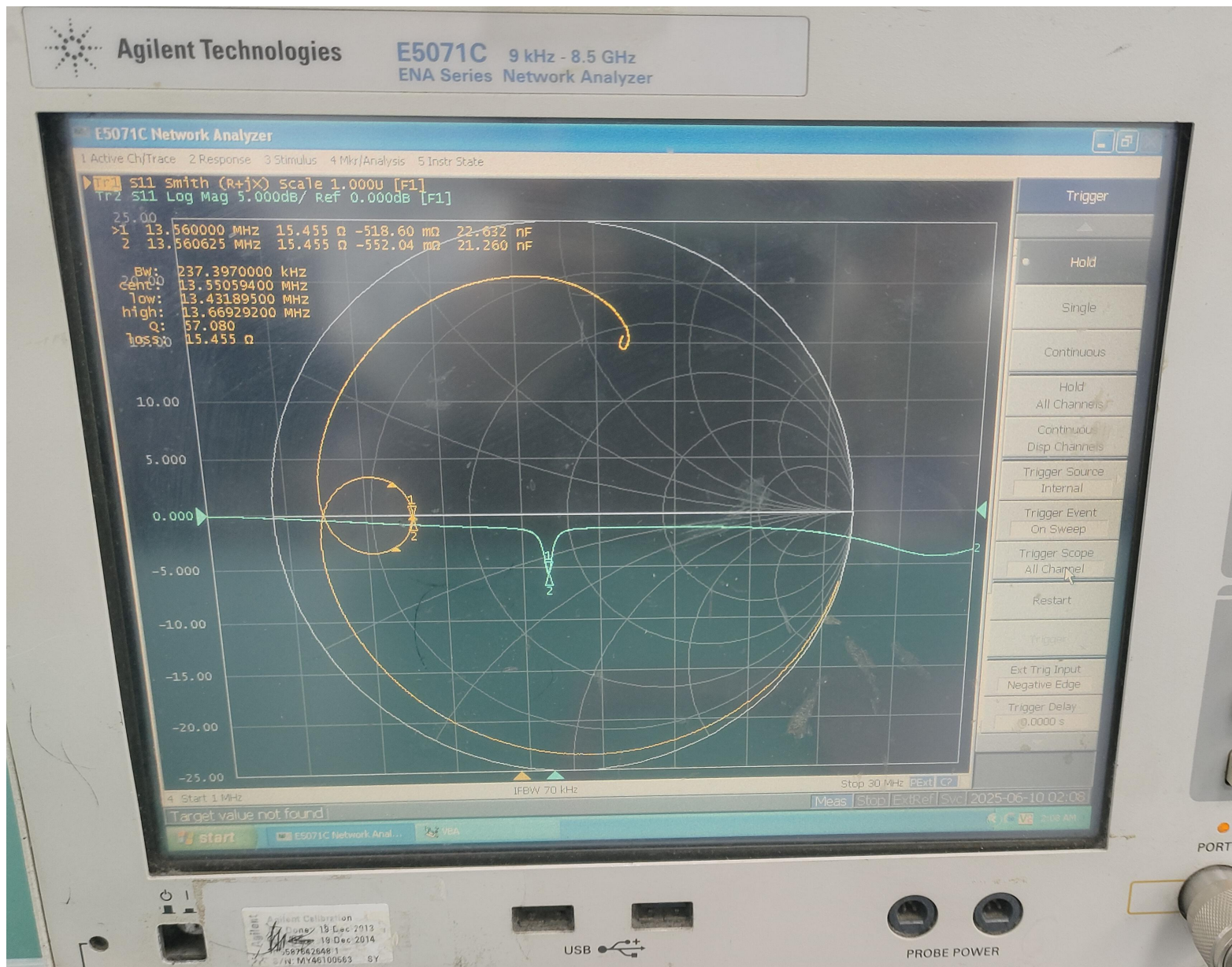


元器件	位号	容/感值	精度	料号	封装大小
L0	L4133/L4134	180nH	5%	R3413111180LB	0805
C0	C4101/C4135	680PF	1%	R3311811680LJ	0402
C0	C4136/C4137	NA	1%	NA	0402
C1	C4139/C4141	47PF	1%	R3311960470LA	0402
C1	C4138/C4140	18PF	1%	R3311960180LE	0402
C2	C4152/C4153	220PF	1%	R3311811220LD	0402
C2	C4142/C4123	220PF	1%	R3311811220LD	0402
Rext	R4135/R4131	0R	1%	/	0402
Rext	R4134/R4132	NA	NA	NA	0402
Rrx	R4133/R4125	3.3K	5%	/	0402
Crx	C4133/C4129	1nF	1%	R3311960100LG	0402

Smith Chart



Smith Chart-DVT2



读卡读卡模拟

读写 read/write	距离 distance (cm)	祥承标准 (该项目PD要求) XC standard (follow Production Definition)
Type 4A	6.8	>4
Type 4B	6.2	>3
Type 5 V	10	>6
Card simulation (Xiaomi 13u)	13cm	>6
Card simulation (Apple 13)	9cm	
Card simulation(ACR1 221u)	14mm	

THANKS