



通力电子

KILI Antenna test Report

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Data: 2022.06.13

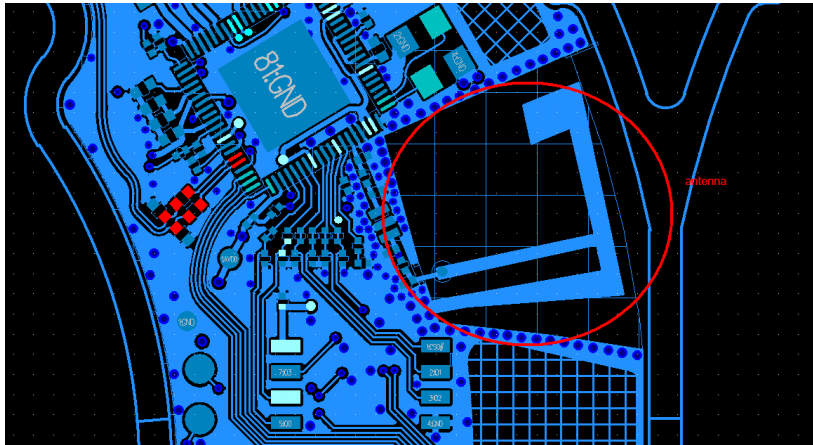
■ Antenna dimension map

Antenna Type:PCB Antenna

Antenna Brand: None (on board design)

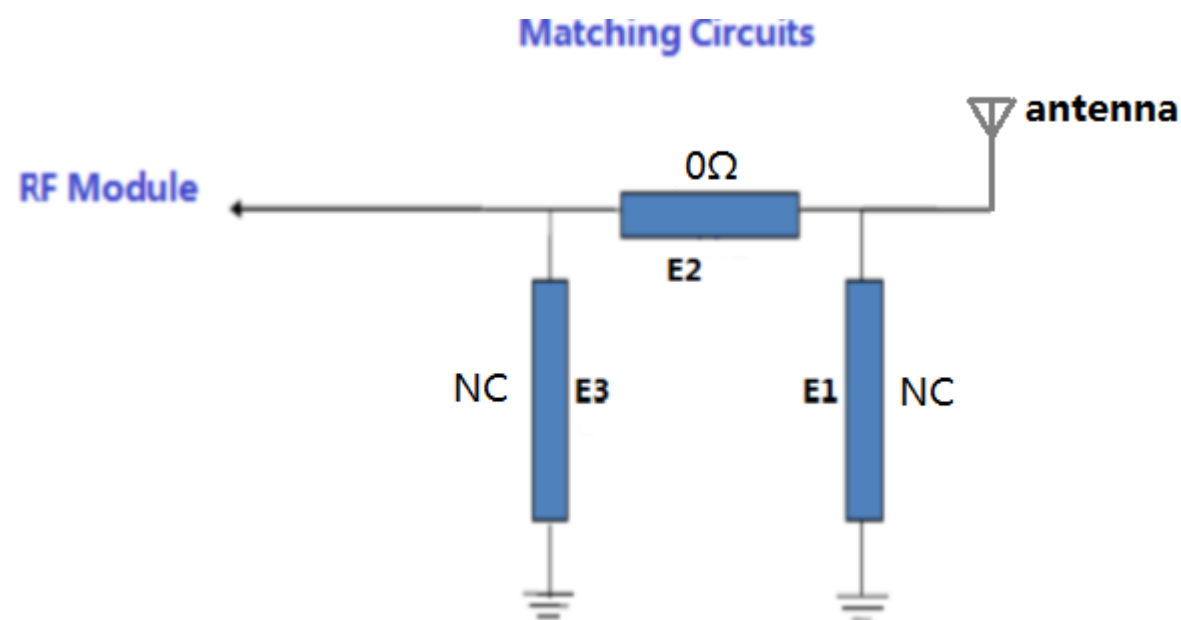
Length*Width:.9.56mm*10.72mm

Antenna Supplier:TCL Tonly Electronics (Huizhou) Co.,Ltd.



■ Antenna matching circuit

No changes have been made to the matching circuit



Element	Value
E1(0402)	0.8pF
E2(0402)	1.8nH
E3(0402)	NC



■ Test instruments and methods

1)Test environment:OTA

2)Test equipment: Keysight E5080A and CMW270

3)Test process:

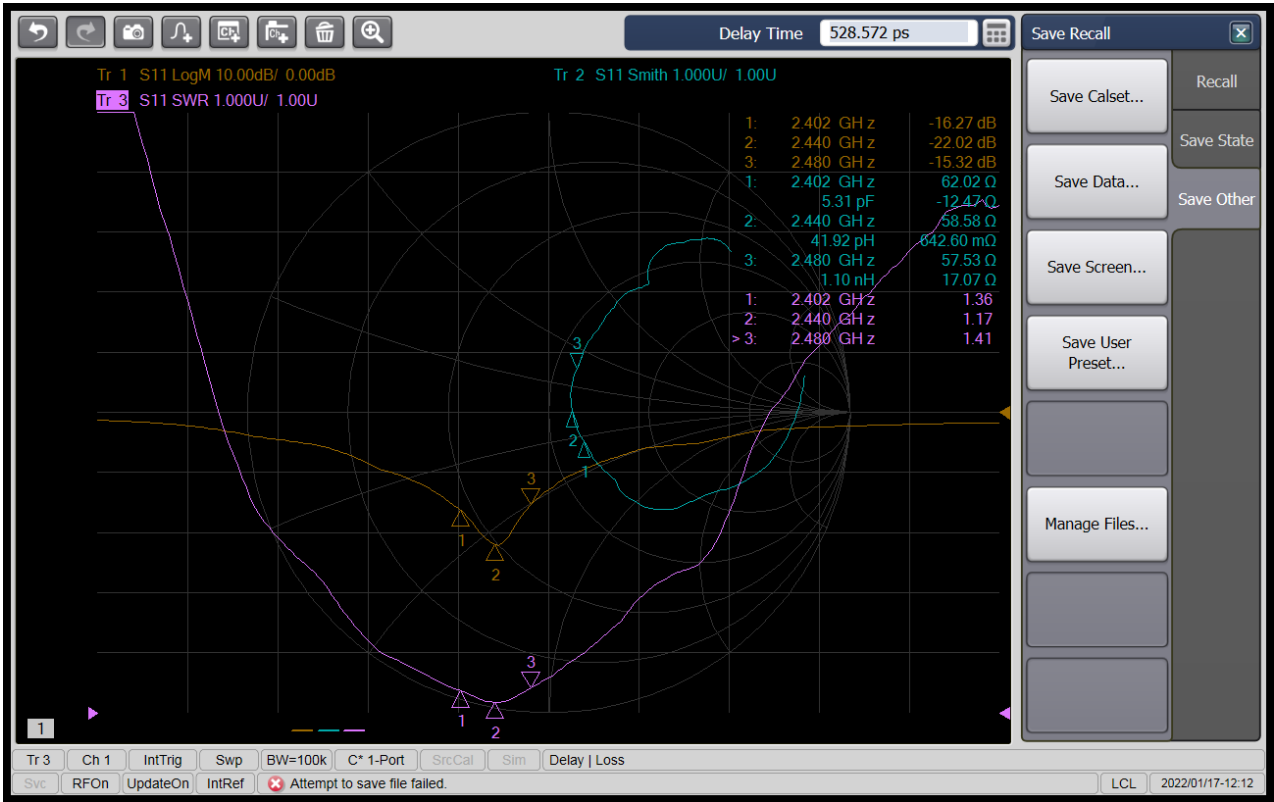
1.Passive test: place the device on the OTA test bed, select passive efficiency automation test scripts to test;

2.S11 test: instrument calibration, port extension , set 2.4G Mark , read the S11 value.



■ Antenna S parameter

S11:



Fre(Mhz)	2402	2441	2480	Spec.
VSWR	1.36	1.17	1.41	≤2



■ Antenna PASSIVE parameter

Freq (MHz)	Gain (dB)	Efficiency (dB)	Efficiency (%)
2300	1.977598552	-3.080931486	49.19340131
2310	2.402855823	-2.717806417	53.48344313
2320	2.277312036	-2.7582239	52.98801005
2330	1.923837518	-3.014279363	49.95420638
2340	1.720984276	-3.120762334	48.74429199
2350	1.483042013	-3.05667211	49.46896101
2360	1.418079919	-2.844996846	51.93980507
2370	1.432330904	-2.693682854	53.78135186
2380	1.431595913	-2.728366242	53.35355668
2390	1.597251168	-2.879250525	51.53175668
2400	1.636689248	-3.078302227	49.22319246
2410	1.661248657	-3.1293482	48.64802124
2420	1.761222183	-3.047017221	49.57905879
2430	1.855340224	-2.914139119	51.11944006
2440	1.895536193	-2.784244893	52.67147867
2450	1.832045042	-2.737114009	53.24619755
2460	2.146540453	-2.733774392	53.28715831
2470	2.375656194	-2.612648285	54.79427329
2480	2.345503323	-2.563363974	55.41962753
2490	2.198500983	-2.661628282	54.17977184
2500	2.008702662	-2.753965257	53.03999498



■ Antenna active parameter

BR/DH5		
CHANNEL	TRP(dBm)	TIS(dBm)
0	7.41	-93.66
39	7.29	--93.68
78	8.39	-94.02

