



# Antenna Part Specification

Project name:	GW110 Dongle
Antenna material:	FPC antenna
Antenna type:	PIFA antenna
Version:	V1.0
Date:	2023.03.28



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Change record			
Compile / change date	Reason for change	Changed content	Version
2023.03.28	First edition	First edition	V1.0

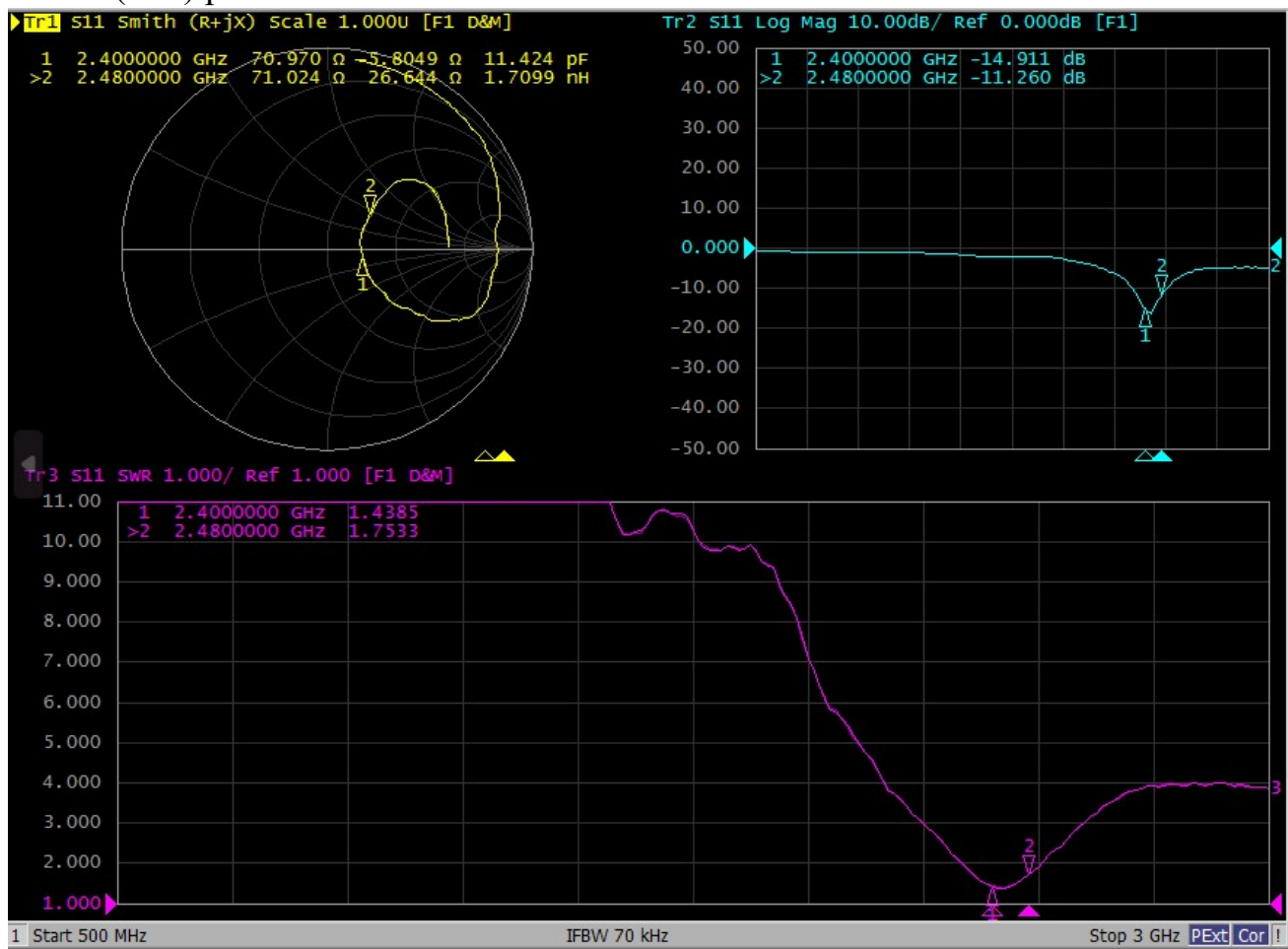


I: The report of passive data



Angilent E5071C

VSWR(S11) parameter:

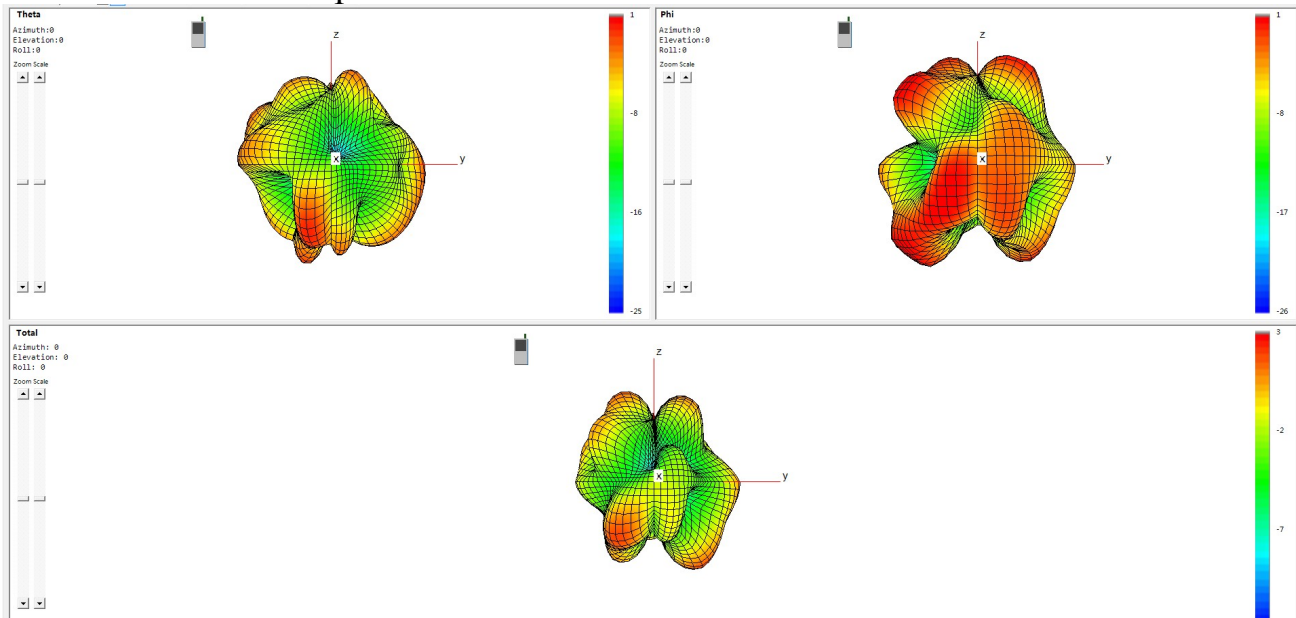




Efficiency:

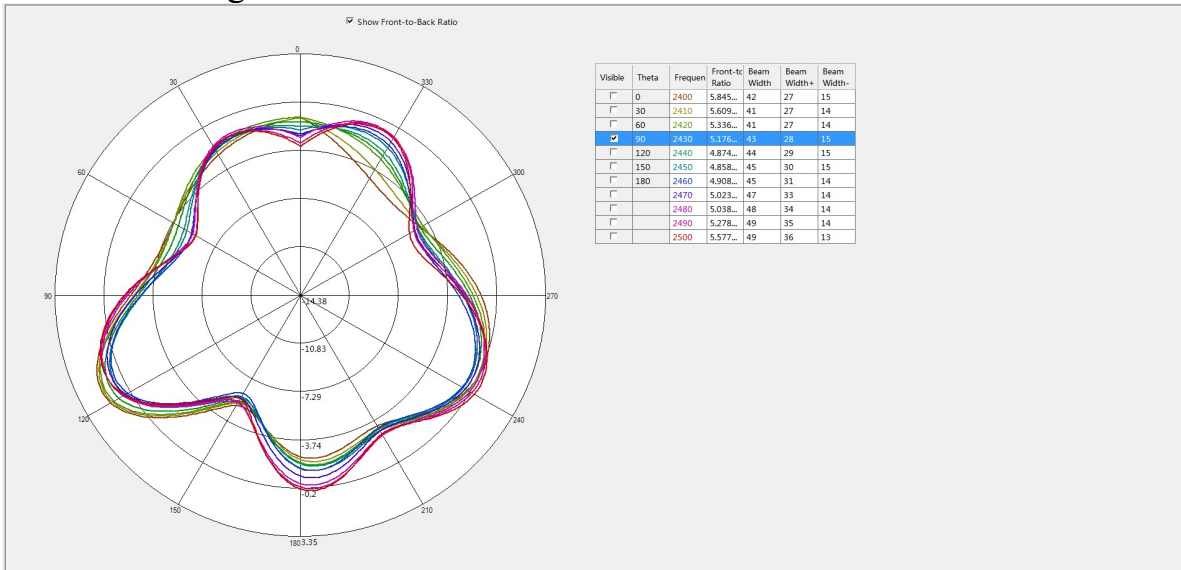
2400-2480MHZ			
Frequency (MHz)	Efficiency	Efficiency (dB )	Gain (dBi)
2400	63.7%	-1.96	2.36
2410	61.2%	-2.13	2.19
2420	58.5%	-2.33	2.13
2430	58.9%	-2.30	2.08
2440	56.5%	-2.48	1.90
2450	58.9%	-2.30	1.93
2460	61.0%	-2.15	1.98
2470	59.1%	-2.28	1.64
2480	58.5%	-2.33	1.47
Average value	59.6%	-2.25	1.96

3D Antenna radiation pattern:

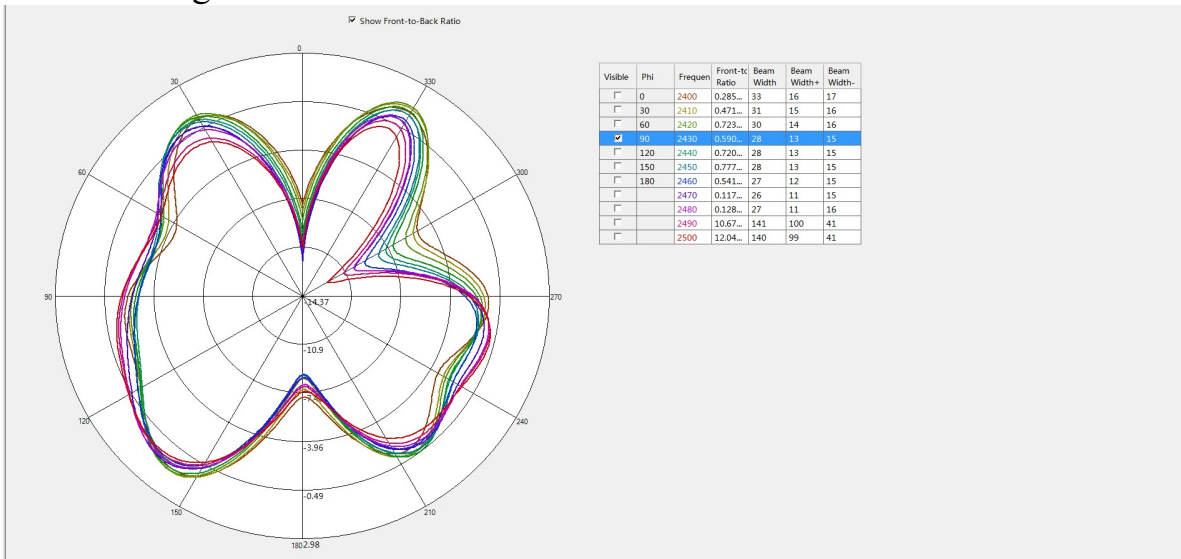




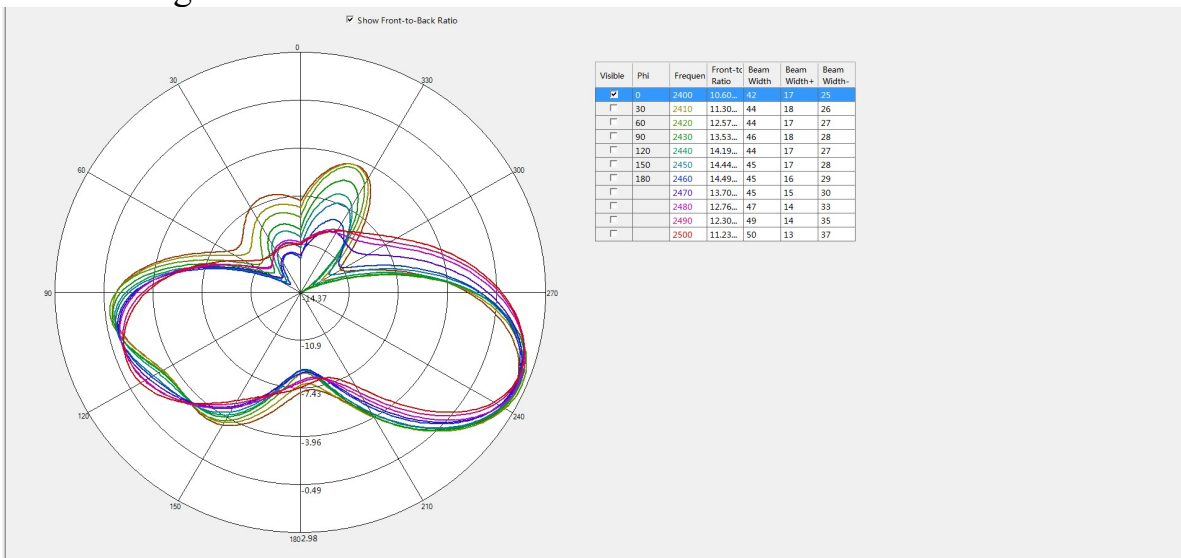
Antenna radiation pattern:  
Theta=90.00deg



Phi=90.00deg



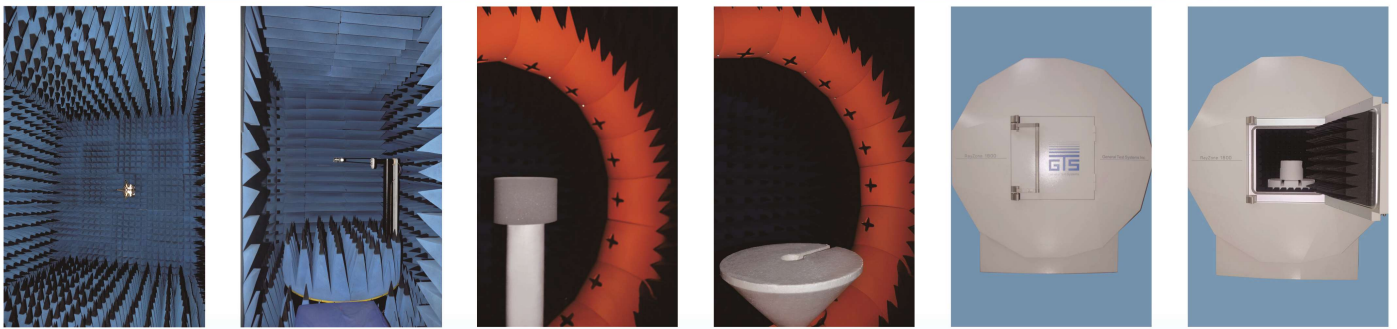
Phi=0.00deg





II: 3D Active test report of antenna

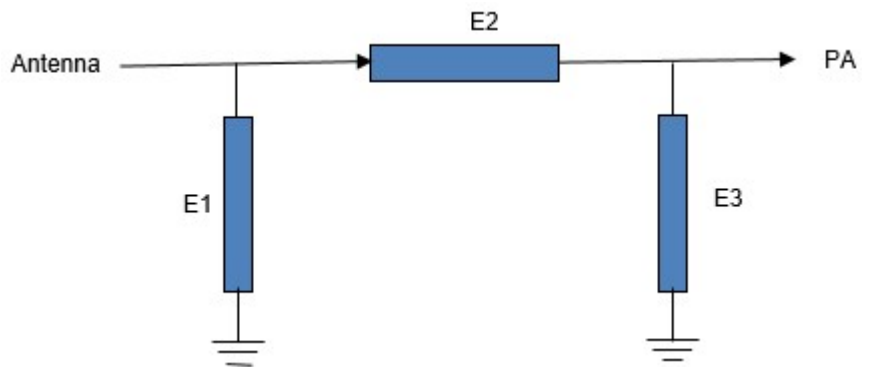
	Channel	TRP (dBm)	TIS (dBm)
BT	CH 0	7.8	-93.8
	CH 39	8.1	-94.7
	CH 78	7.9	-94.3



OTA Standard Chamber

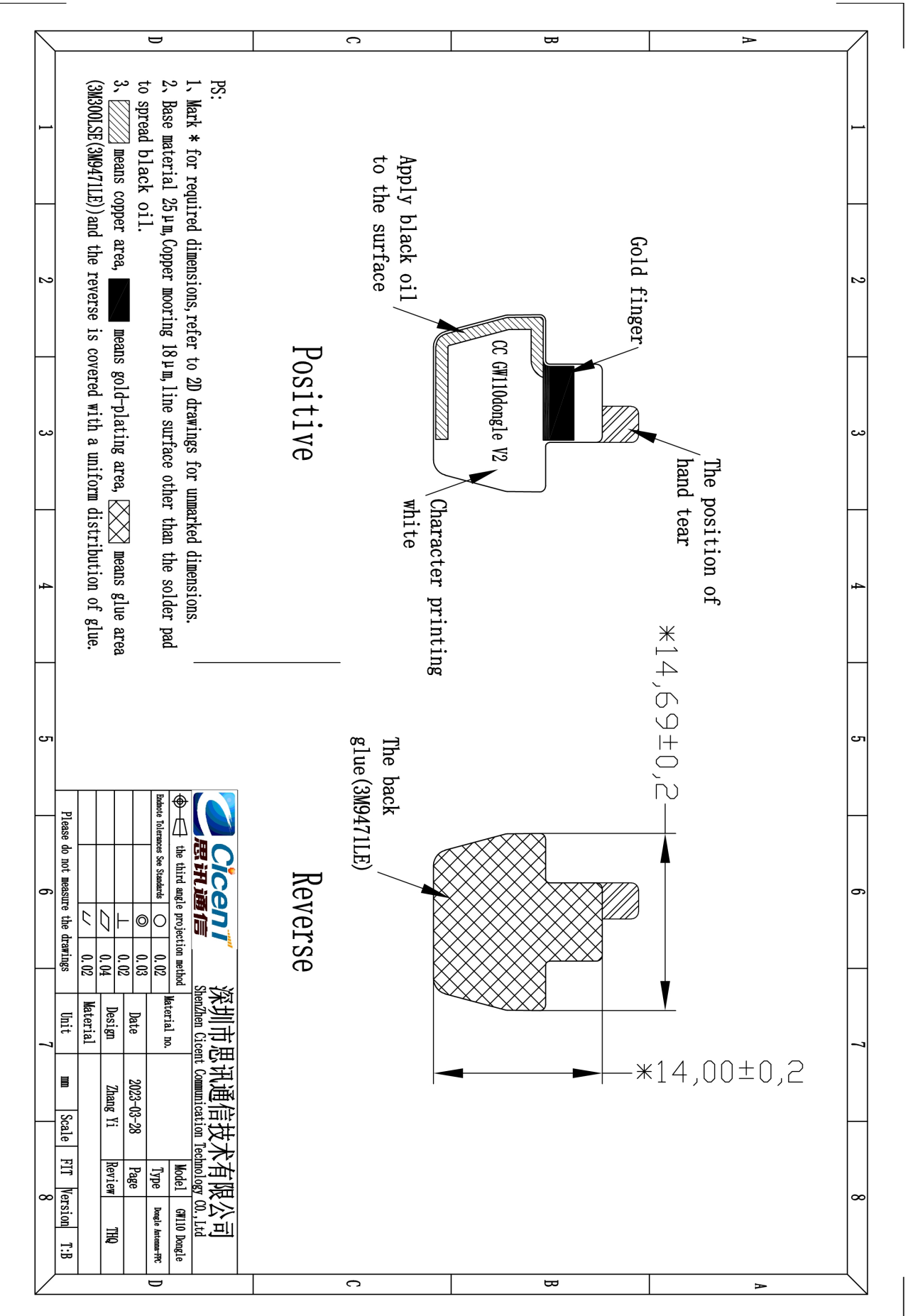
III: Matching circuit




Element	Value
E1(0201)	N/A
E2(0201)	3NH
E3(0201)	N/A







VI: Structure file



- PS:
1. Mark \* for required dimensions, refer to 2D drawings for unmarked dimensions.
  2. Base material 25 μm, Copper mooring 18 μm, line surface other than the solder pad to spread black oil.
  3.  means copper area,  means gold-plating area,  means glue area (3M3001SE(3M9471LE)) and the reverse is covered with a uniform distribution of glue.

		深圳市思讯通信技术有限公司	
Shenzhen Cicent Communication Technology Co., Ltd		Model	
	the third angle projection method	GW110 Dongle	
Endure Tolernance See Standards	○ 0.02	Type	Dongle Antenna-PC
	◎ 0.03	Date	2023-03-28
	⊥ 0.02	Design	Zhang Yi
	∠ 0.04	Material	Review
	∠ 0.02	Unit	mm
Please do not measure the drawings		Scale	FIT
		Version	1:1