Antenna Part Specification

Project name：	Breaker Pro
Material category：	BT antenna
Version：	V1.0
Date：	2022.09.27

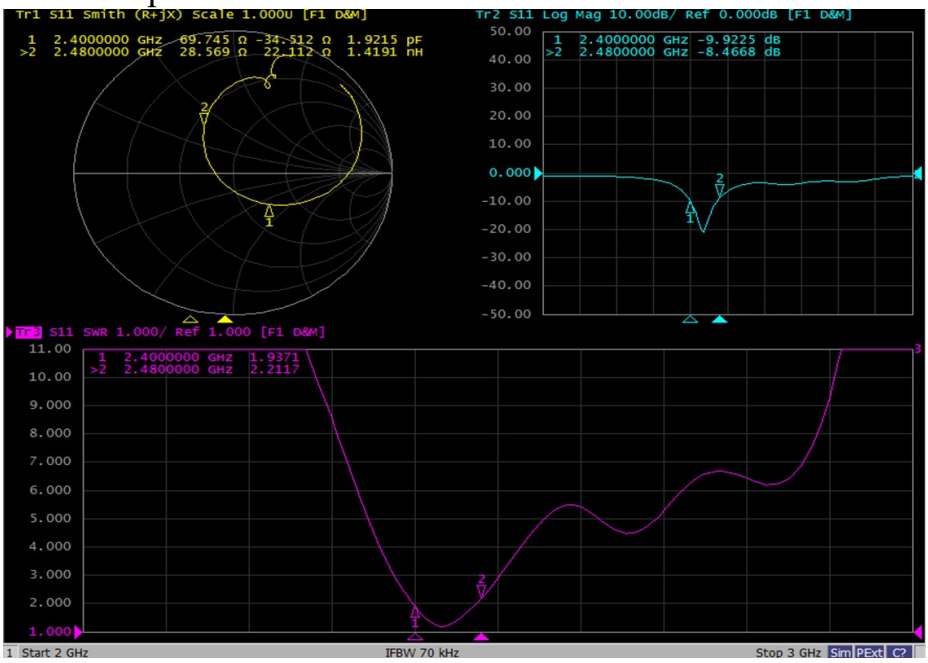
Contents

Change record			
Compile / change date	Reason for change	Changed content	Version

I: The report of passive data

Angilent E5071C

VSWR parameter（Left）：

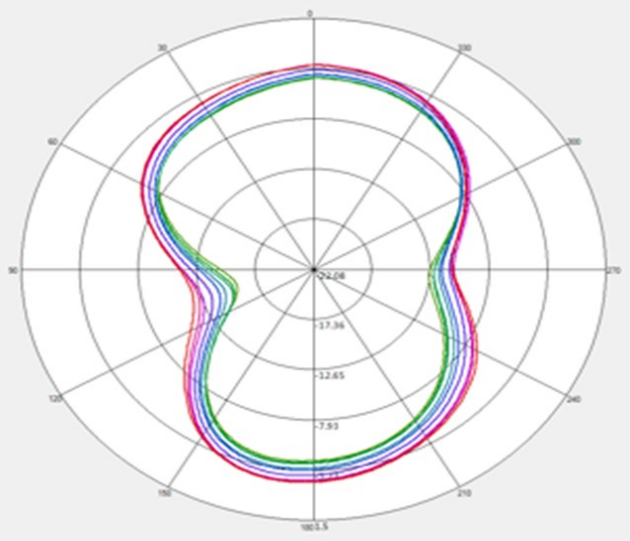


Efficiency：

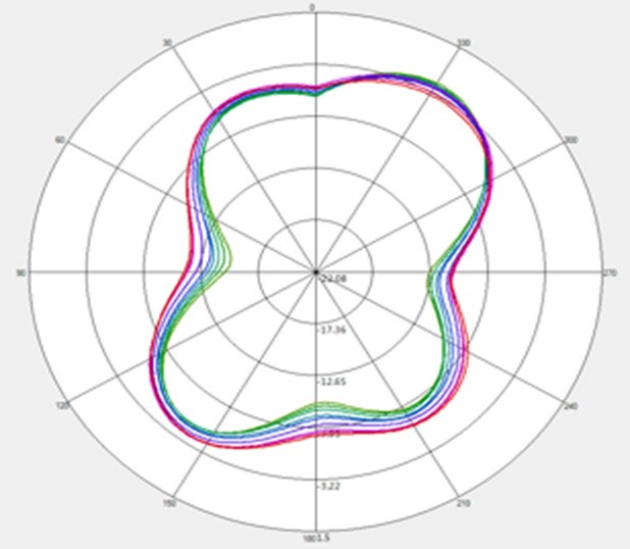
L			
Frequency（MHz）	Efficiency	Efficiency (dB)	Gain (dBi)
2400	24.8%	-6.1	-1.7
2410	26.3%	-5.8	-1.6
2420	27.8%	-5.6	-1.3
2430	28.0%	-5.5	-1.1
2440	28.1%	-5.5	-1.0
2450	29.7%	-5.3	-0.8
2460	29.8%	-5.3	-0.7
2470	32.3%	-4.9	-0.4
2480	34.6%	-4.6	-0.2
Average value	29.04%	-5.39	-0.99

Antenna radiation pattern:

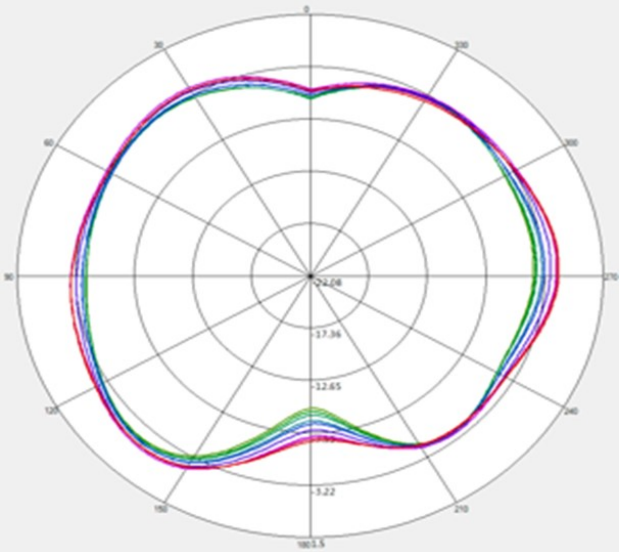
Theta=90.00deg



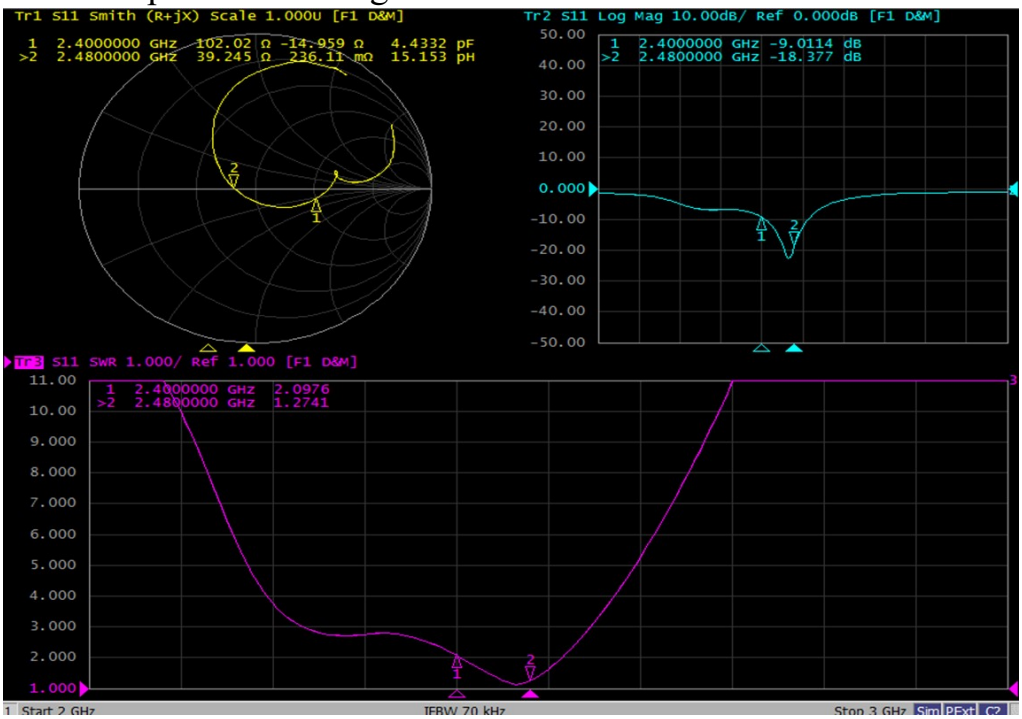
Phi=90.00deg



Phi=0.00deg



VSWR parameter（Right）：

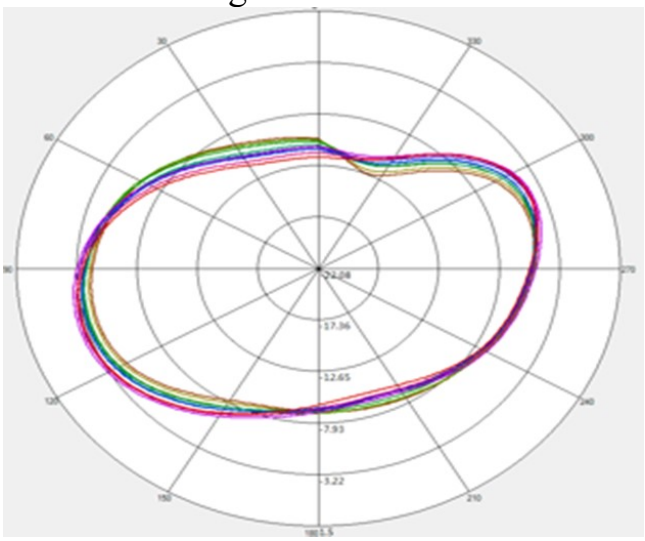


Efficiency：

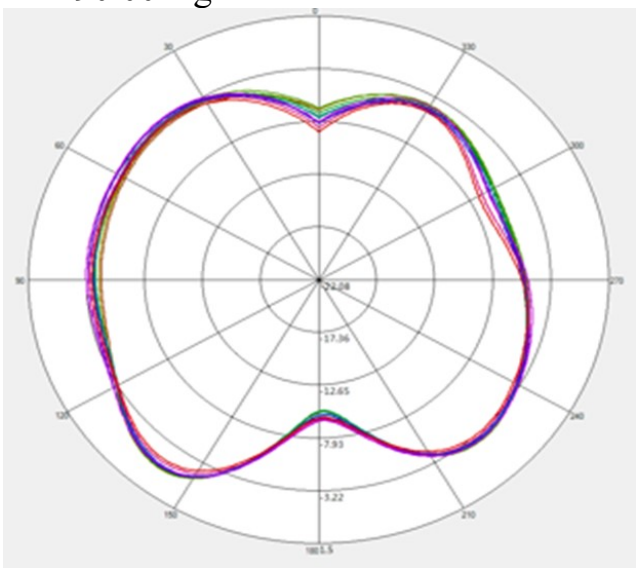
R			
Frequency（MHz）	Efficiency	Efficiency (dB)	Gain (dBi)
2400	25.6%	-5.9	-1.6
2410	26.2%	-5.8	-1.6
2420	26.6%	-5.7	-1.6
2430	26.1%	-5.8	-1.6
2440	25.2%	-6.0	-1.8
2450	25.7%	-5.9	-1.7
2460	24.9%	-6.0	-1.8
2470	26.2%	-5.8	-1.7
2480	26.8%	-5.7	-1.8
Average value	25.92%	-5.86	-1.68

Antenna radiation pattern:

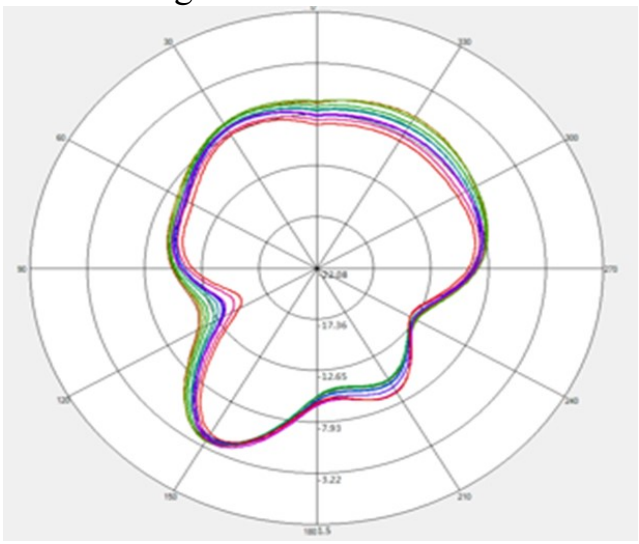
Theta=90.00deg



Phi=90.00deg



Phi=0.00deg



II：3D Active test report of antenna

free space	Channel	TRP（dBm）	TIS （dBm）
L	CH 0	8.0	-91.7
	CH 39	8.6	-92.7
	CH 78	8.5	-92.2

free space	Channel	TRP（dBm）	TIS （dBm）
R	CH 0	7.8	-91.3
	CH 39	8.1	-92.9
	CH 78	7.0	-91.9

Headform	Channel	TRP（dBm）	TIS （dBm）
L	CH 0	2.7	-85.9
	CH 39	2.7	-86.3
	CH 78	2.7	-87.1

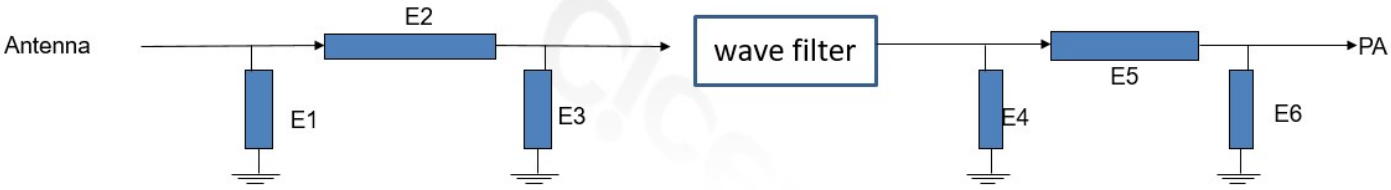
Headform	Channel	TRP（dBm）	TIS （dBm）
R	CH 0	1.2	-84.5
	CH 39	1.0	-85.5
	CH 78	0.8	-85.3

OTA Standard Chamber

III：Matching circuit

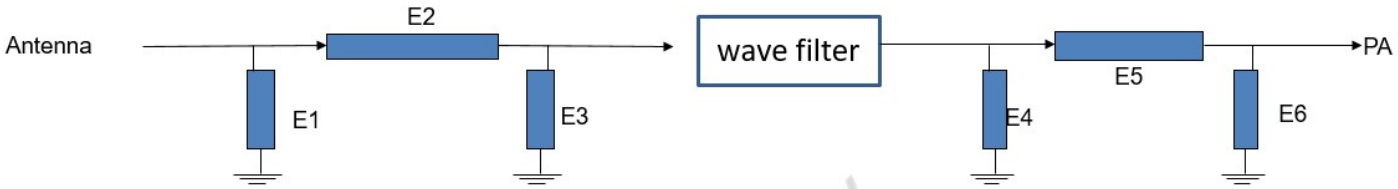
Left：

Element	Value
E1(0201)	3.0nH
E2(0201)	4.7nH
E3(0201)	N/A
E4(0201)	12nH
E5(0201)	10pF
E6(0201)	3.9nH

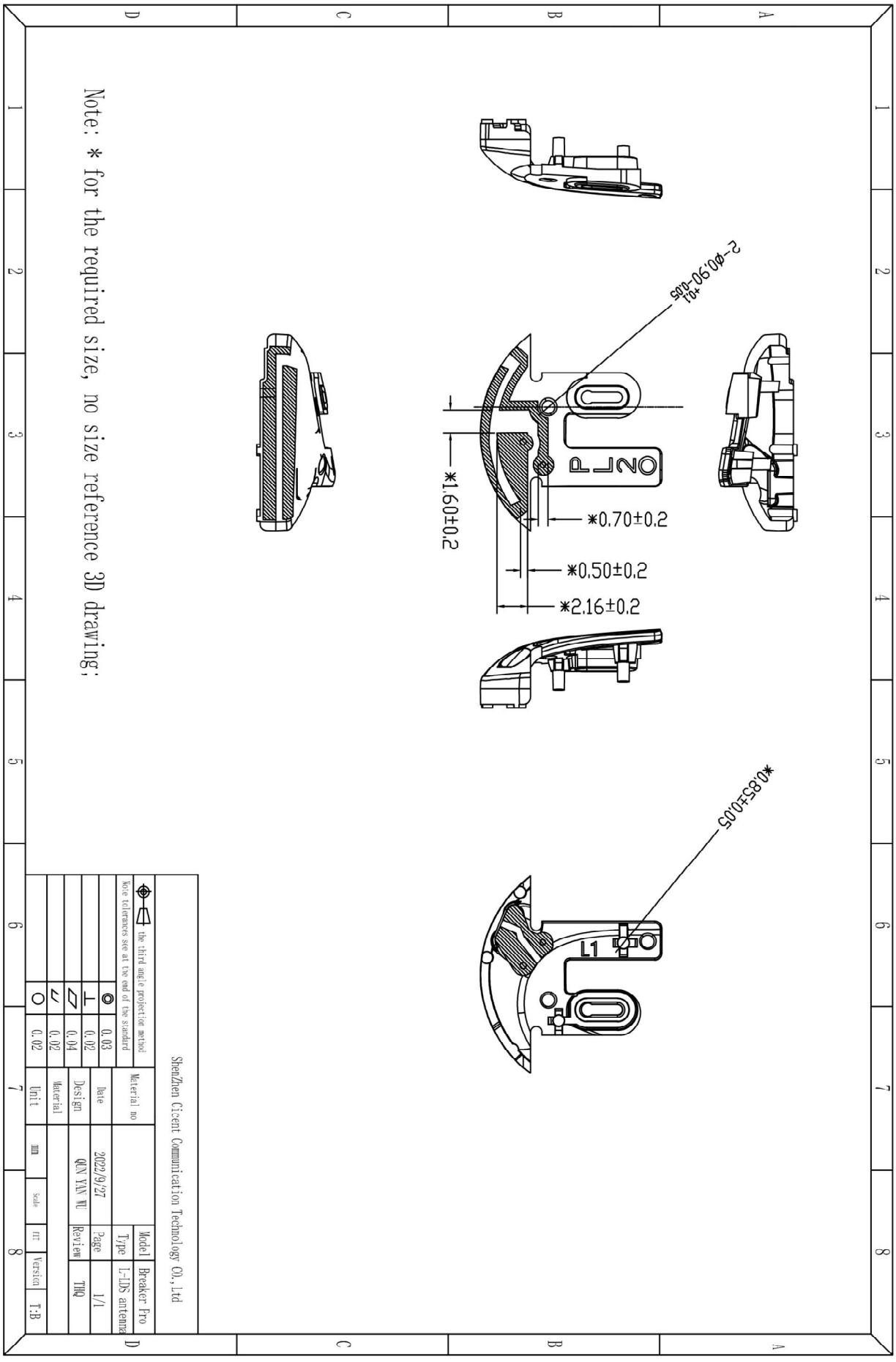


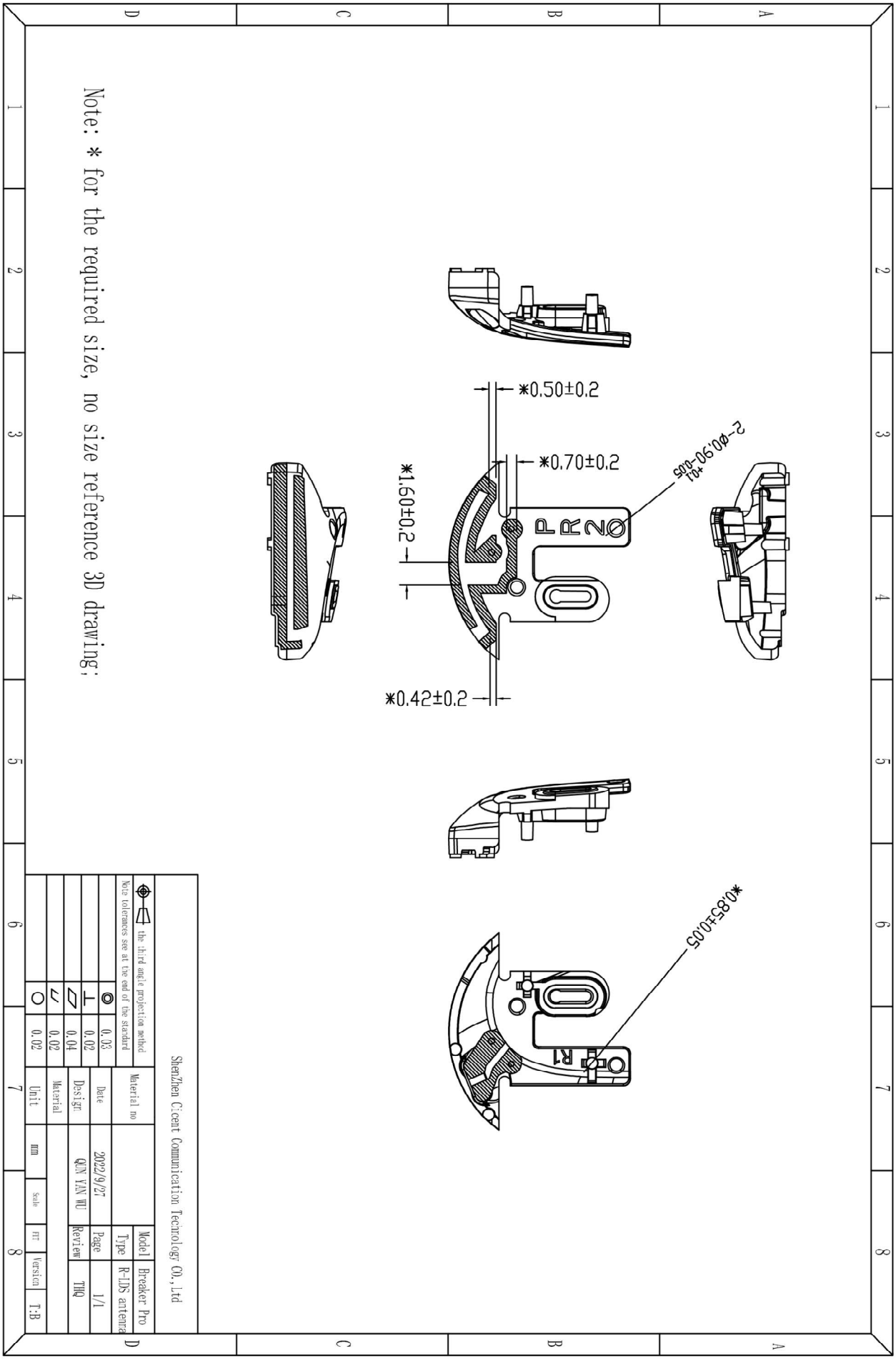
Right：

Element	Value
E1(0201)	3.3nH
E2(0201)	4.7nH
E3(0201)	N/A
E4(0201)	12nH
E5(0201)	10pF
E6(0201)	3.9nH



IV：Structure file：




Note: * for the required size, no size reference 3D drawing;
*0.50±0.2
*0.70±0.2
*1.60±0.2
*0.42±0.2
2-Ø0.90+0.1 -0.05
*Ø0.85±0.05
R1
ShenZhen Cicent Communication Technology Co.,Ltd
the third angle projection method
Note tolerances see at the end of the standard
Material no
Model
Breaker Pro
Type
R-LDS antenna
Page
1/1
Review
THQ
Date
2022/9/27
Design
QUN YAN WU
Material
Unit
mm
Scale
FIT
Version
T:B
0.03
0.02
0.02
0.04
0.02
0.02