



# Antenna Part Specification

|                    |             |
|--------------------|-------------|
| Customer name:     | EDIFIER     |
| Project name:      | Lolli 3 Pro |
| Material category: | BT antenna  |
| Version:           | V1.0        |
| Date:              | 2022.12.14  |



# Contents

|                                           |    |
|-------------------------------------------|----|
| I: The report of passive data .....       | 3  |
| II: 3D Active test report of antenna..... | 8  |
| III: Matching circuit .....               | 9  |
| IV: Structure file.....                   | 10 |

| Change record            |                   |                 |         |
|--------------------------|-------------------|-----------------|---------|
| Compile /<br>change date | Reason for change | Changed content | Version |
| 2022.12.14               | First edition     | First edition   | V1.0    |
|                          |                   |                 |         |
|                          |                   |                 |         |

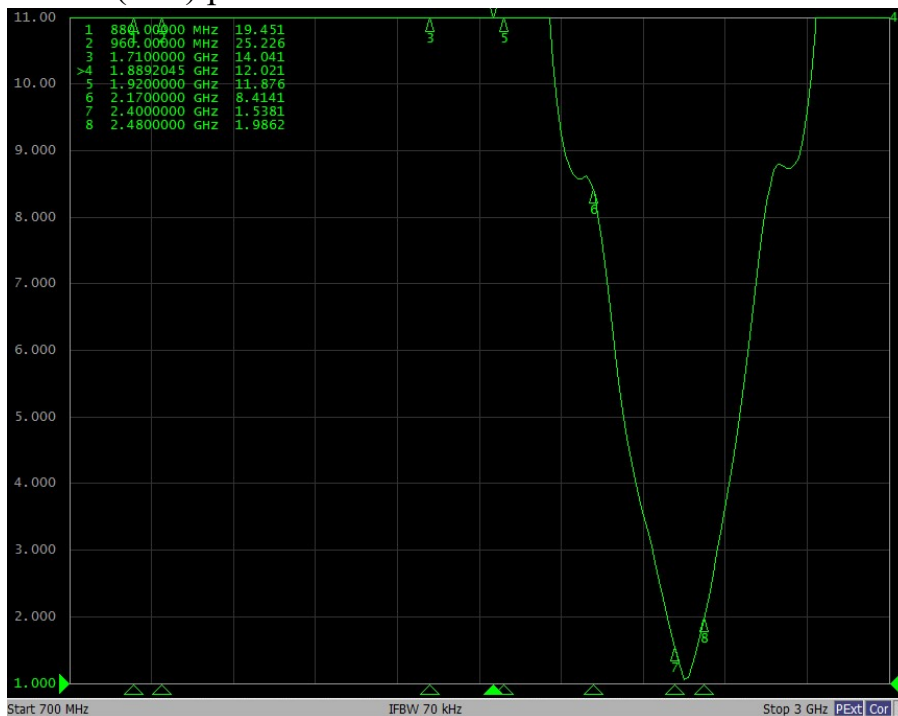


## I: The report of passive data



Angilent E5071C

VSWR(S11) parameter (L) :

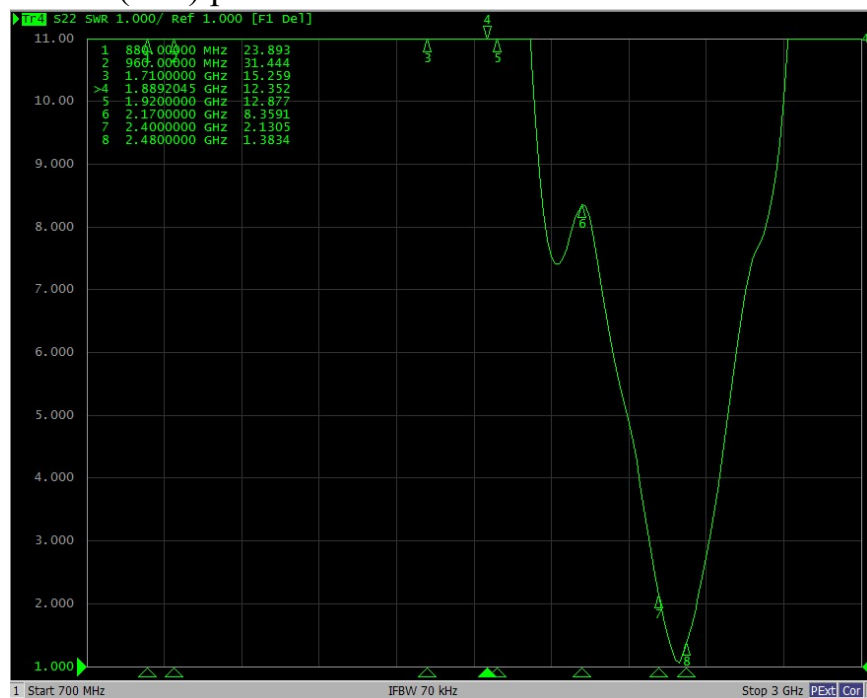


Efficiency:

| 2400-2480 MHz (L) |            |                  |            |
|-------------------|------------|------------------|------------|
| Frequency (MHz)   | Gain (dBi) | Efficiency (dB ) | Efficiency |
| 2400              | -2.6       | -5.4             | 29.0%      |
| 2410              | -2.4       | -5.2             | 30.4%      |
| 2420              | -2.3       | -5.2             | 30.4%      |
| 2430              | -1.9       | -4.9             | 32.3%      |
| 2440              | -1.6       | -4.7             | 34.0%      |
| 2450              | -1.8       | -4.8             | 32.7%      |
| 2460              | -1.9       | -4.9             | 32.0%      |
| 2470              | -2.1       | -5.1             | 31.0%      |
| 2480              | -2.4       | -5.3             | 29.7%      |
| Average value     | -2.1       | -5.1             | 31.3%      |



VSWR(S11) parameter (R) :

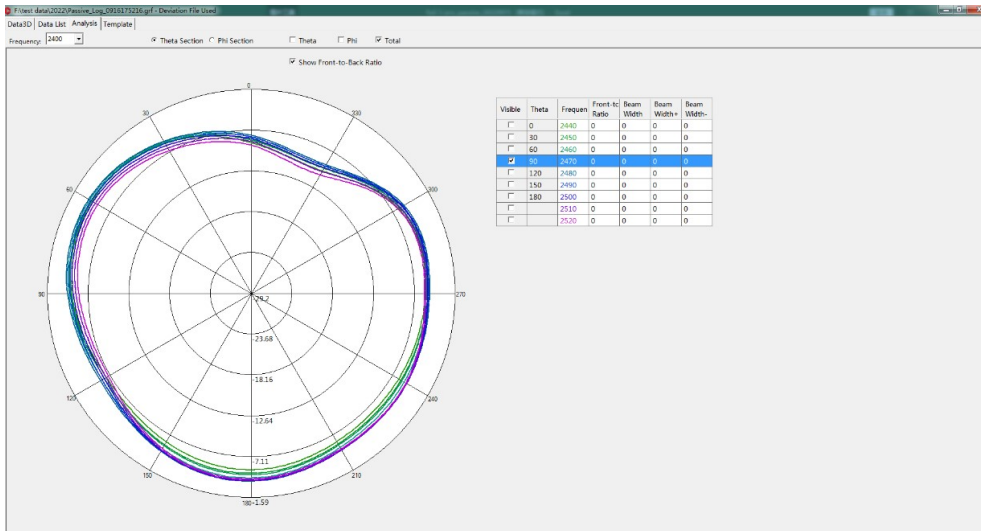


Efficiency:

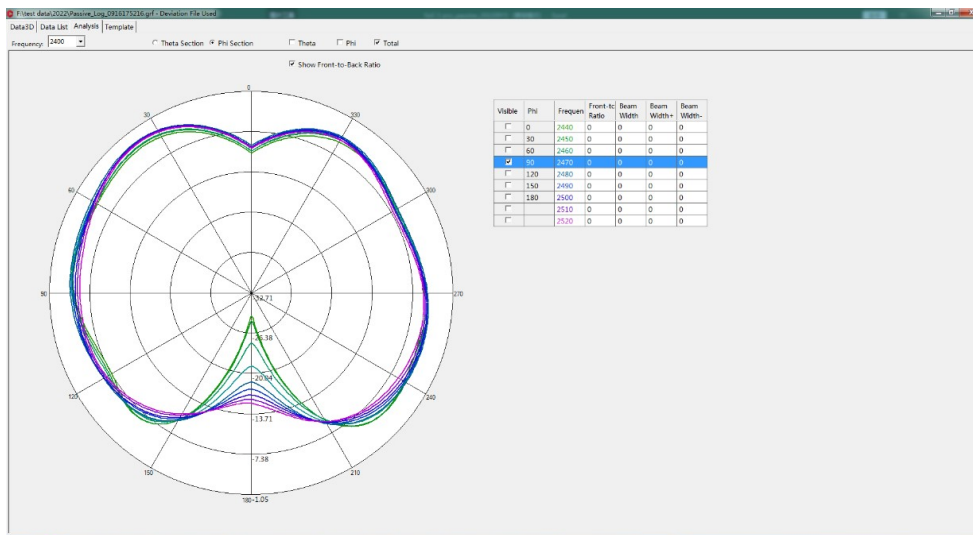
| 2400-2480 MHz (R) |            |                  |            |
|-------------------|------------|------------------|------------|
| Frequency (MHz)   | Gain (dBi) | Efficiency (dB ) | Efficiency |
| 2400              | -3.9       | -5.0             | 31.5%      |
| 2410              | -3.6       | -4.9             | 32.5%      |
| 2420              | -3.3       | -4.8             | 33.4%      |
| 2430              | -3.4       | -4.9             | 32.7%      |
| 2440              | -3.6       | -5.0             | 31.8%      |
| 2450              | -3.4       | -4.9             | 32.4%      |
| 2460              | -3.5       | -5.0             | 31.5%      |
| 2470              | -3.3       | -4.9             | 32.3%      |
| 2480              | -3.0       | -4.8             | 33.3%      |
| Average value     | -3.5       | -4.9             | 32.4%      |



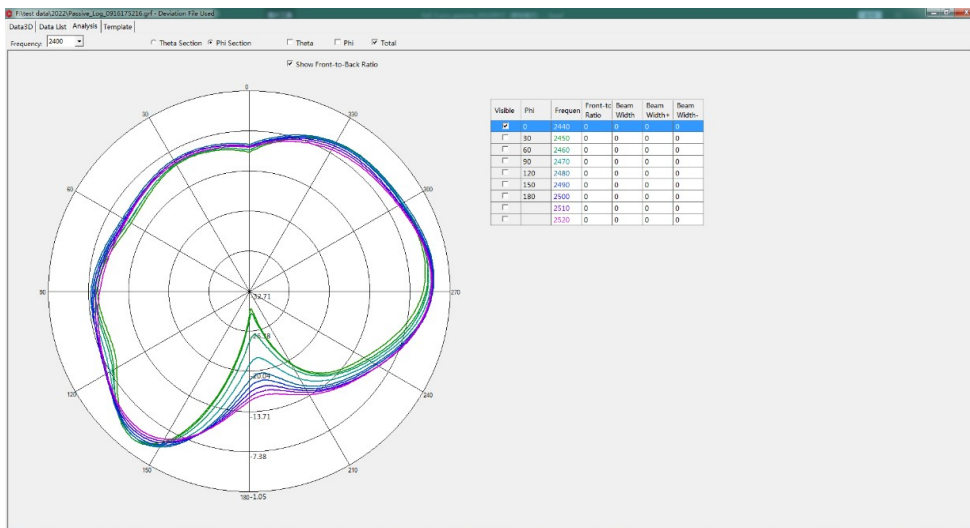
## Antenna radiation pattern (L) : Theta=90.00deg



## Phi=90.00deg

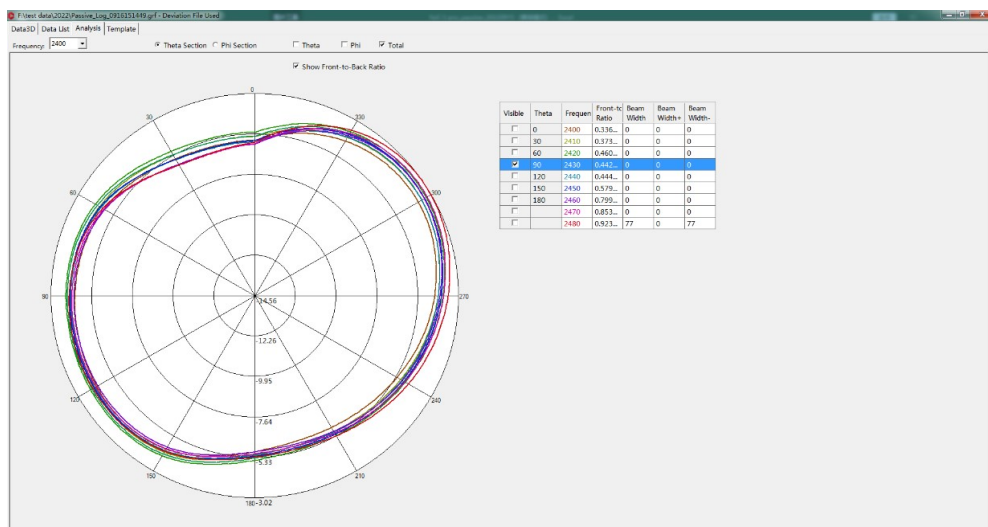


## Phi=0.00deg

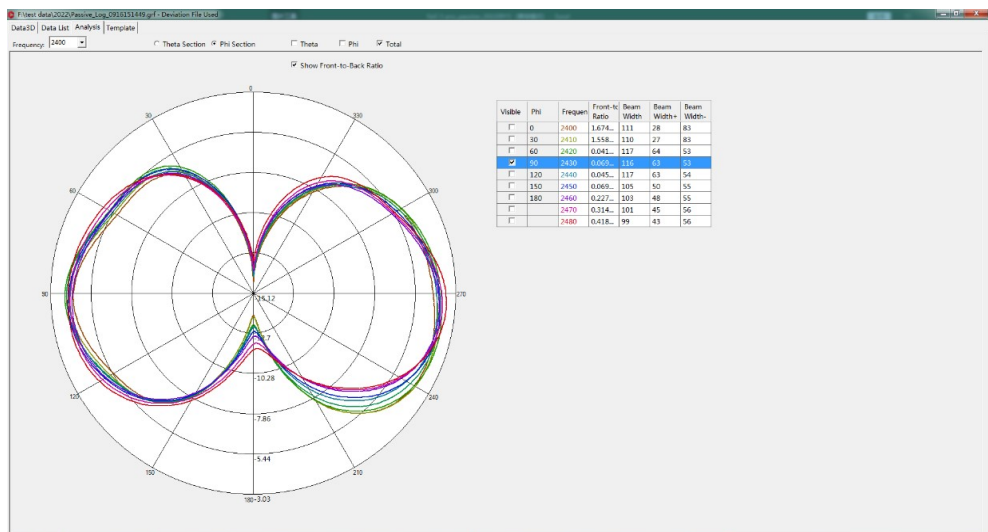




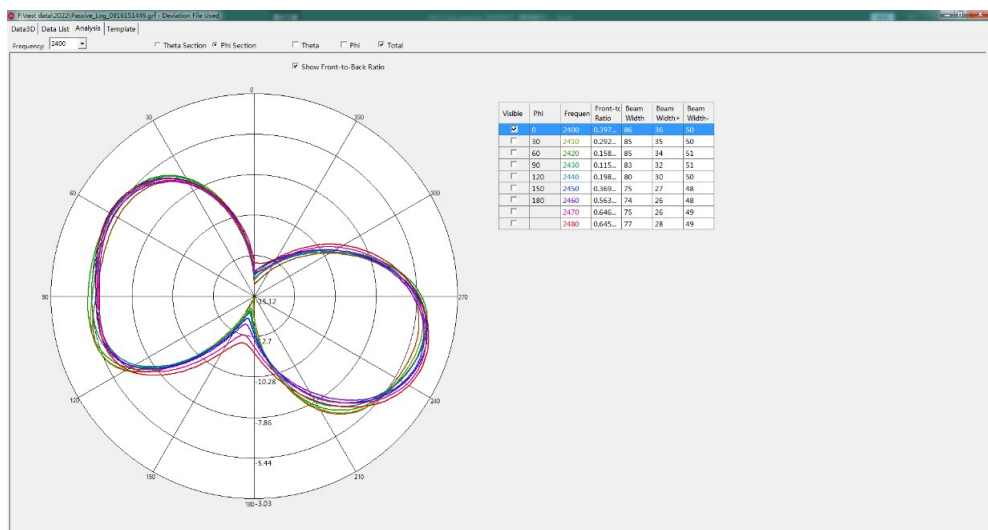
Antenna radiation pattern (R) :  
Theta=90.00deg



Phi=90.00deg

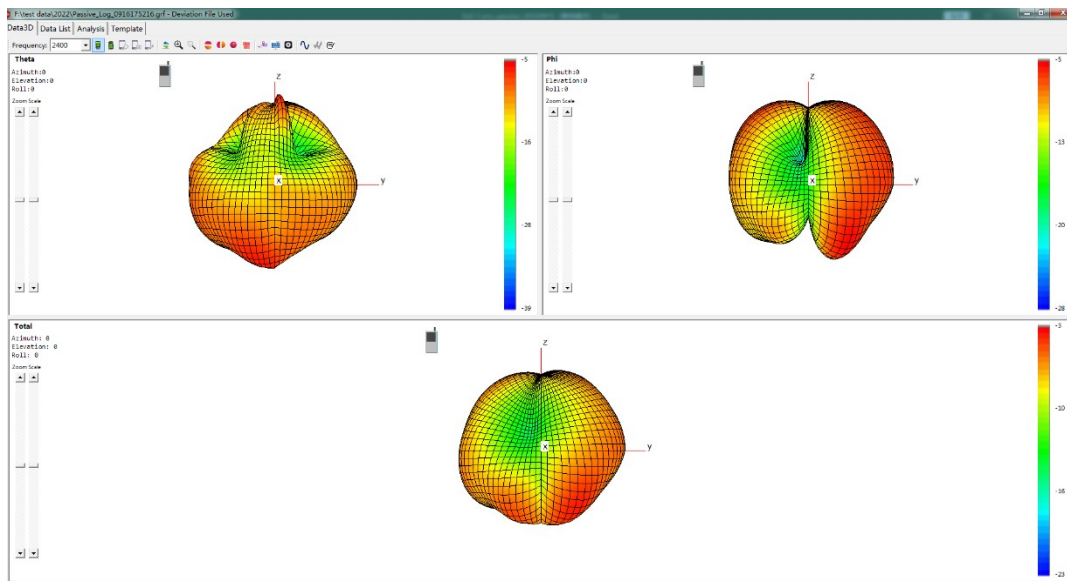


Phi=0.00deg

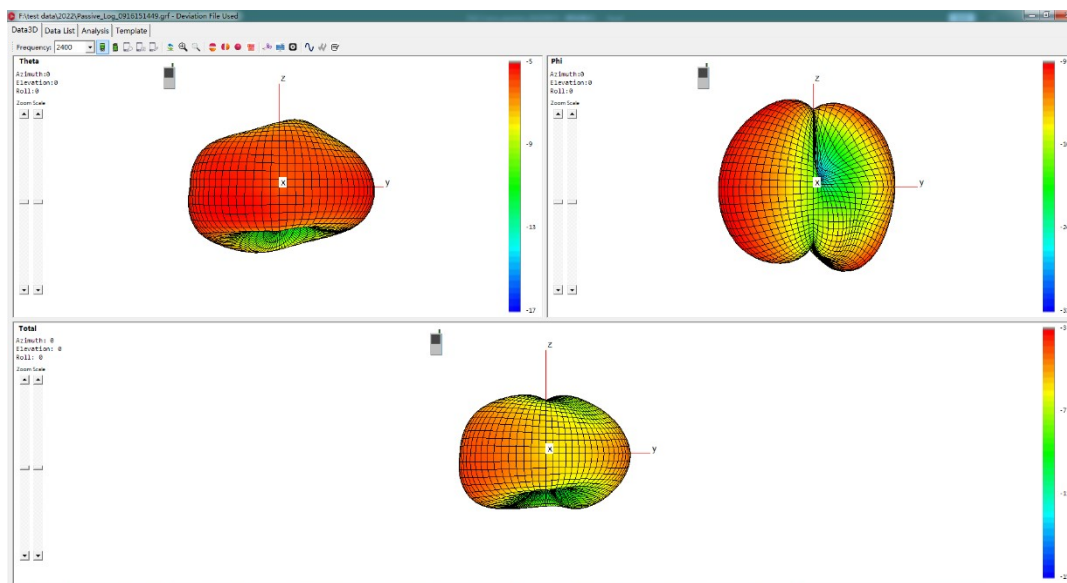




### 3D Antenna radiation pattern (L) :



### 3D Antenna radiation pattern (R) :





II: 3D Active test report of antenna

| 自由空间 | Channel | TRP (dBm) | TIS (dBm) |
|------|---------|-----------|-----------|
| L    | CH 0    | 7.2       | -89.6     |
|      | CH 39   | 9.6       | -91.3     |
|      | CH 78   | 8.5       | -90.6     |

| 自由空间 | Channel | TRP (dBm) | TIS (dBm) |
|------|---------|-----------|-----------|
| R    | CH 0    | 7.4       | -89.8     |
|      | CH 39   | 9.3       | -91.2     |
|      | CH 78   | 8.4       | -90.6     |

| 人头耳 | Channel | TRP (dBm) | TIS (dBm) |
|-----|---------|-----------|-----------|
| L   | CH 0    | 0.7       | -83.6     |
|     | CH 39   | 2.8       | -84.3     |
|     | CH 78   | 1.2       | -83.5     |

| 人头耳 | Channel | TRP (dBm) | TIS (dBm) |
|-----|---------|-----------|-----------|
| R   | CH 0    | 0.8       | -83.3     |
|     | CH 39   | 1.7       | -84.2     |
|     | CH 78   | 0.6       | -83.2     |



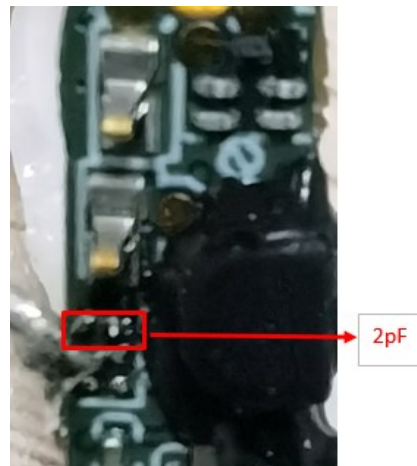
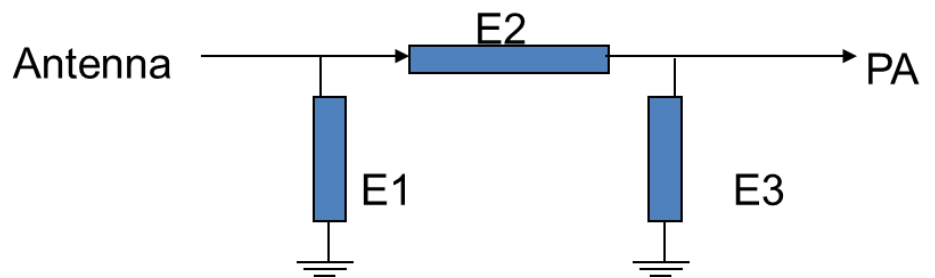
OTA Standard Chamber



### III: Matching circuit

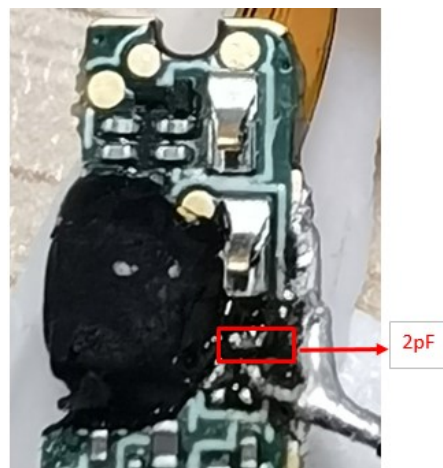
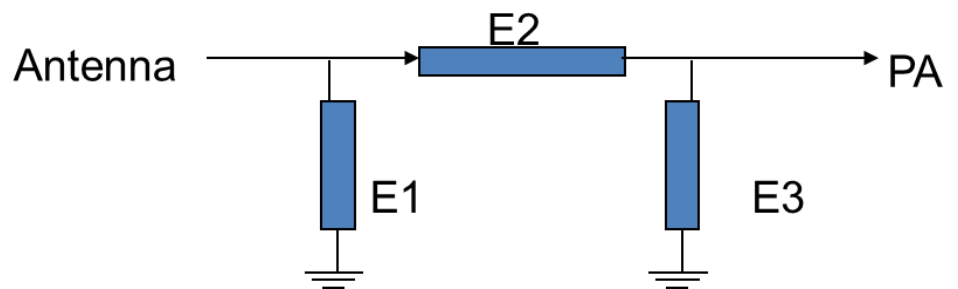
L:

| Element | Value |
|---------|-------|
| E1      | 2pF   |
| E2      | 0Ω    |
| E3      | N/A   |



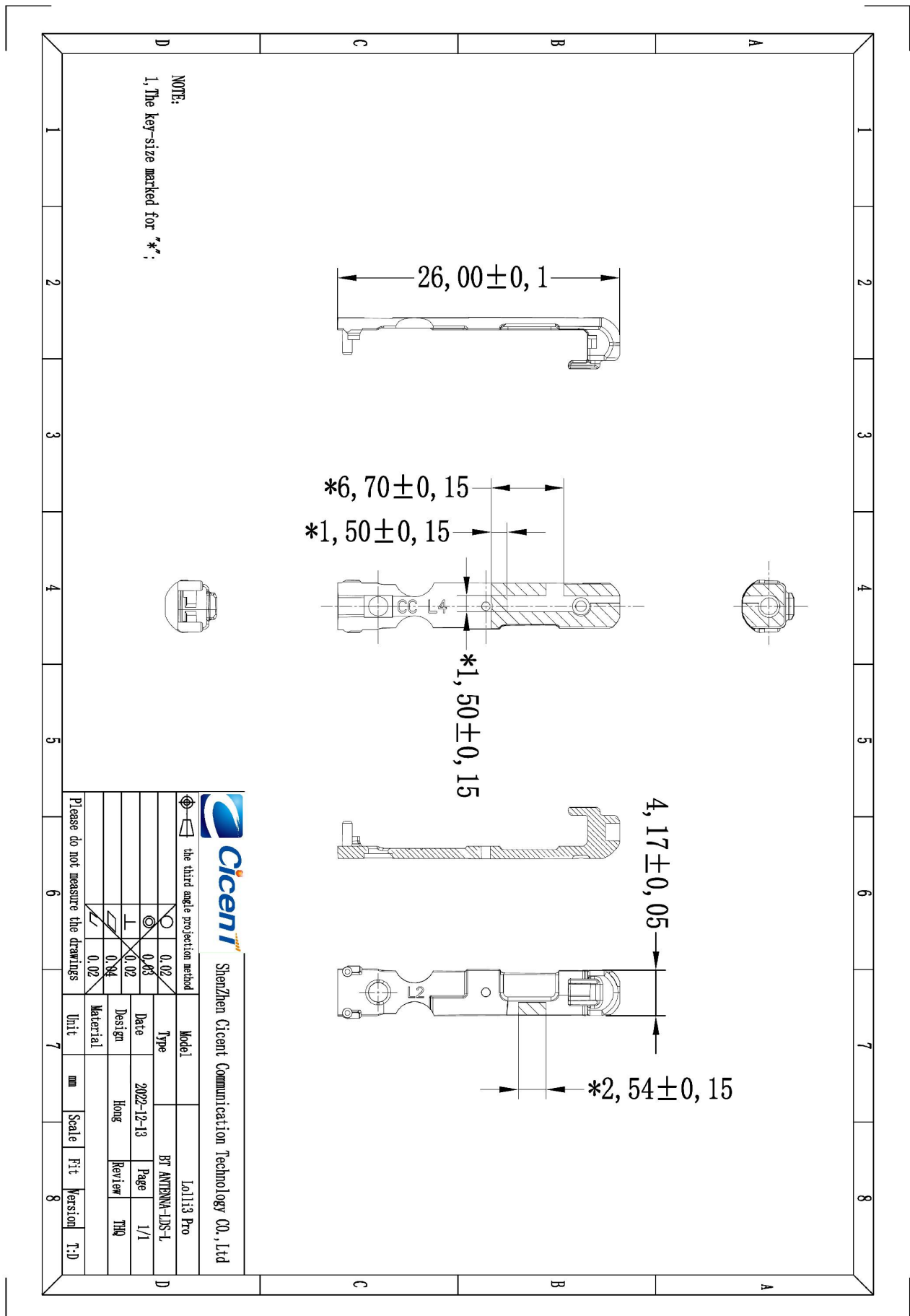
R:

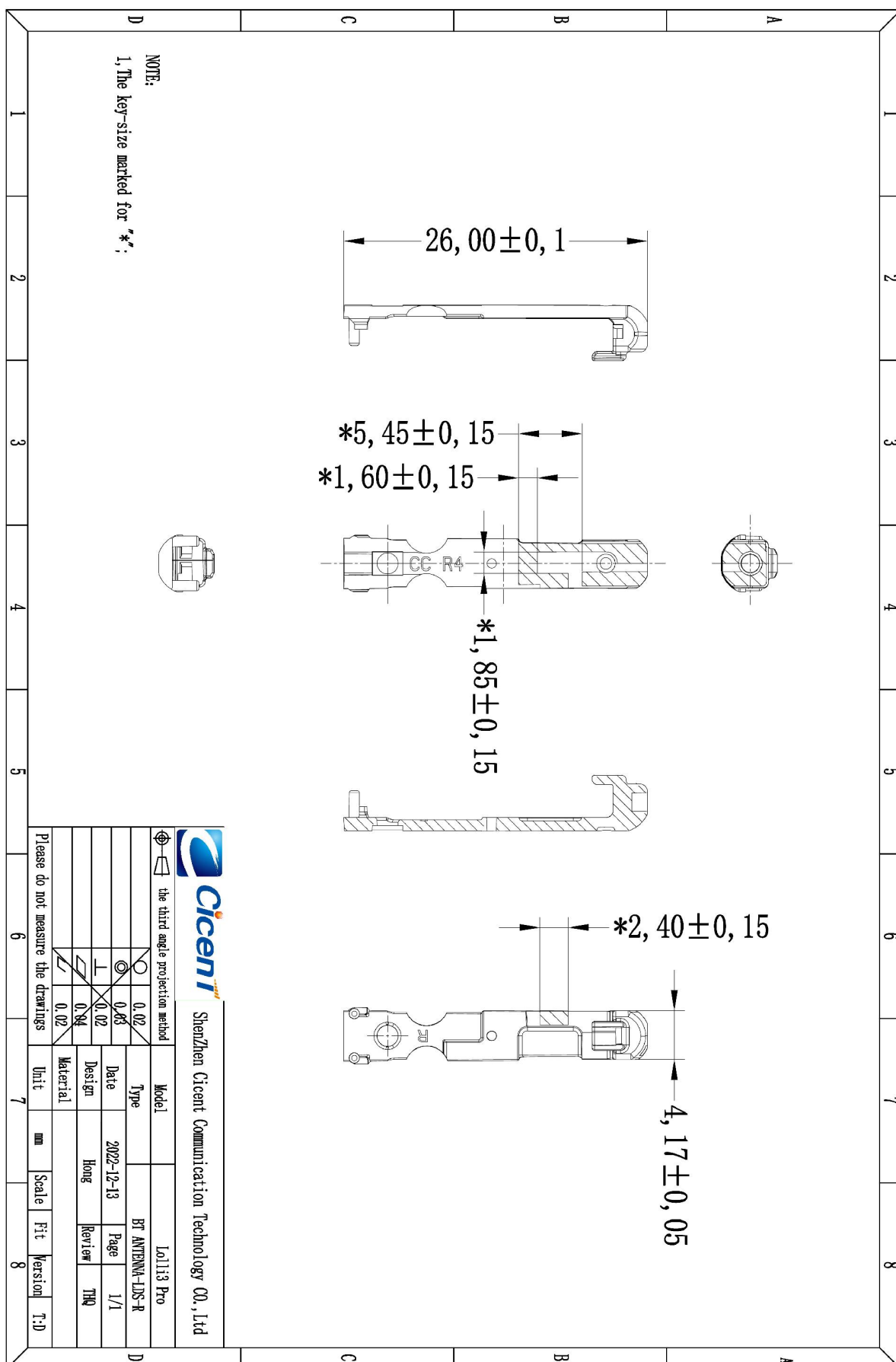
| Element | Value |
|---------|-------|
| E1      | 2pF   |
| E2      | 0Ω    |
| E3      | N/A   |



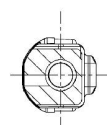


IV: Structure file





NOTE:  
1, The key-size marked for '\*';



the third angle projection method

ShenZhen Cicent Communication Technology Co., Ltd

| Model    | Lo1113 Pro       |
|----------|------------------|
| Type     | BT ANTENNA-LDS-R |
| Date     | 2022-12-13       |
| Design   | Hong             |
| Material | TRQ              |
| Unit     | mm               |
| Scale    | Fit              |
| Version  | T-10             |

Please do not measure the drawings