

芯中芯 **Antenna Test Report**

Customer	芯中芯
Project	A118
Antenna Revision	A1
Product Description	FPC
Product No	
DATE	2022. 08. 31

# ***Product Overview & Dimension***

**Front**



# Purpose

This report is to measure the performance of BT antenna for **A118**. The antenna operating frequency at **2.4~2.5GHz**, All test data are showed as below.

## ***Content***

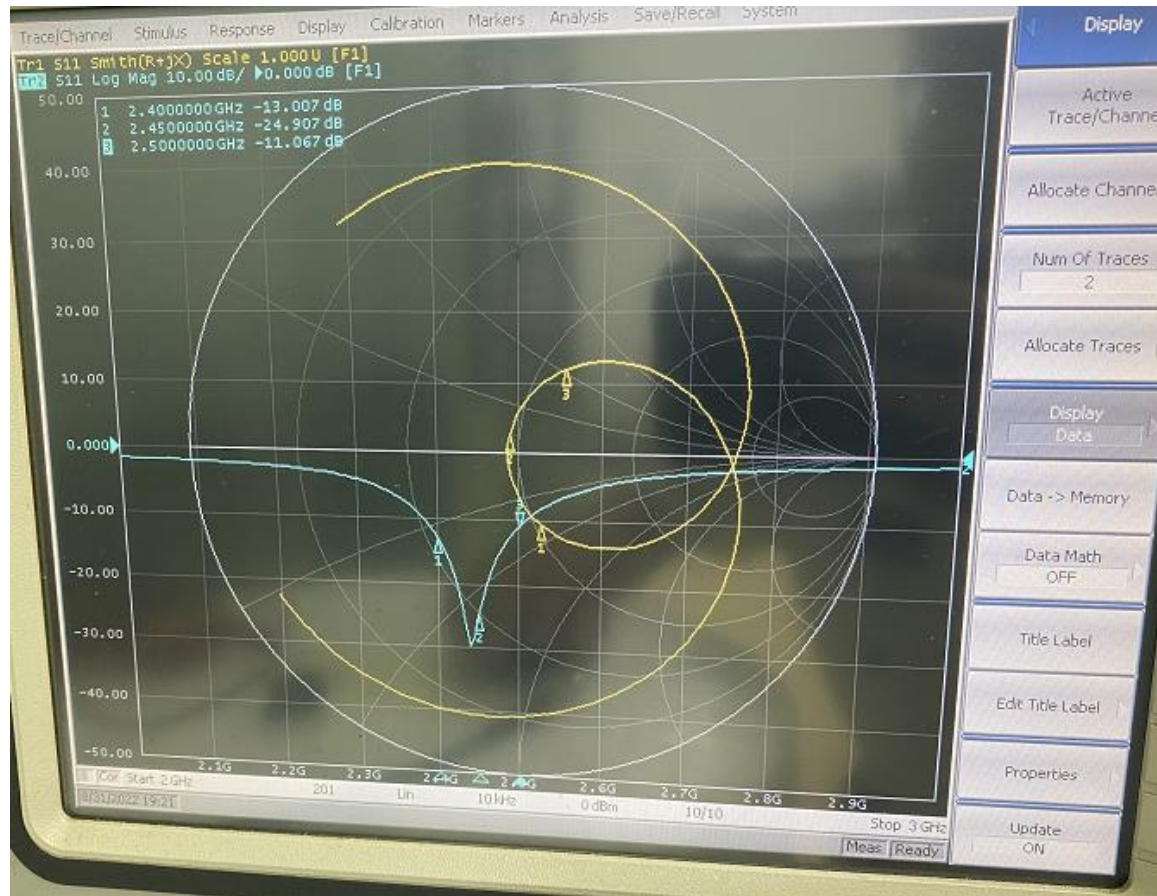
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
  - 4.1 S11 Parameter
  - 4.2 Test coordinate
  - 4.3 2D Pattern
  - 4.4 OTA Data
  - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

## 2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



## 无源S11—(BT ANT)



(L-R)

芯中芯

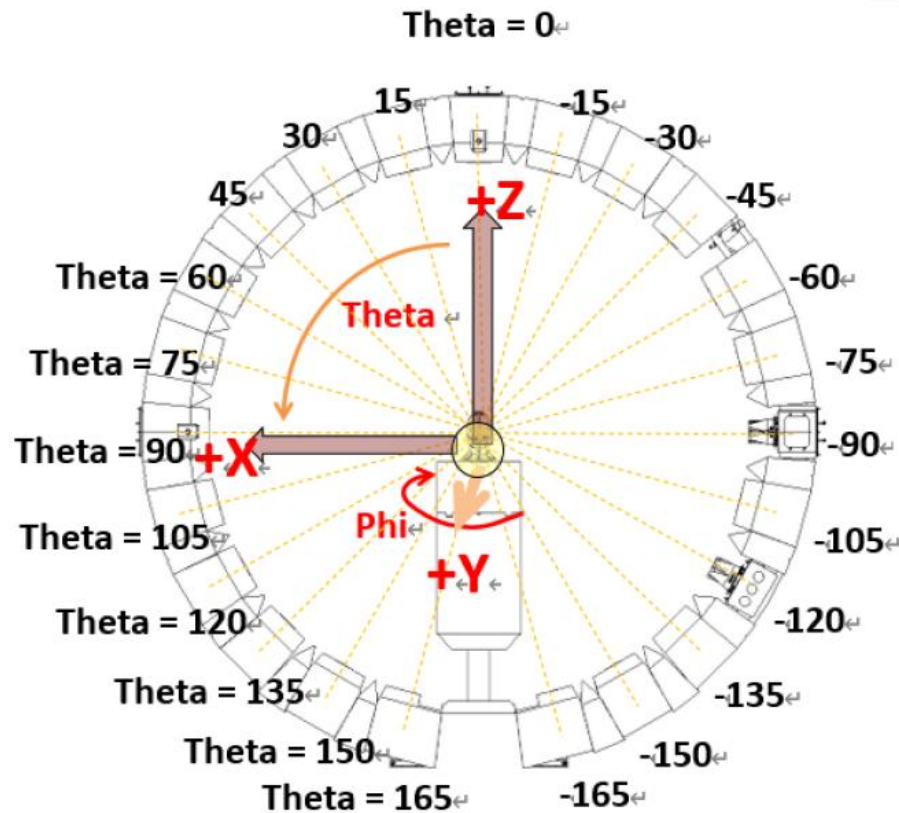
A118

2022.08.31



# Test Result

## Sample status & coordinates



# Test Result

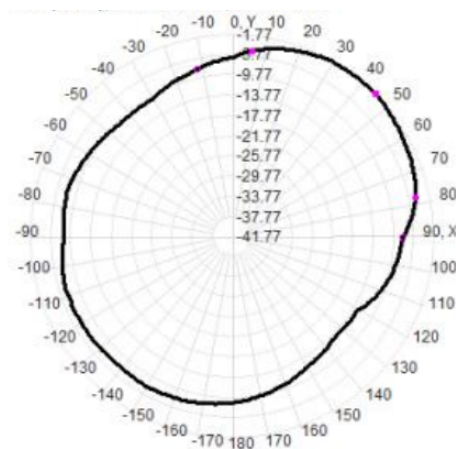
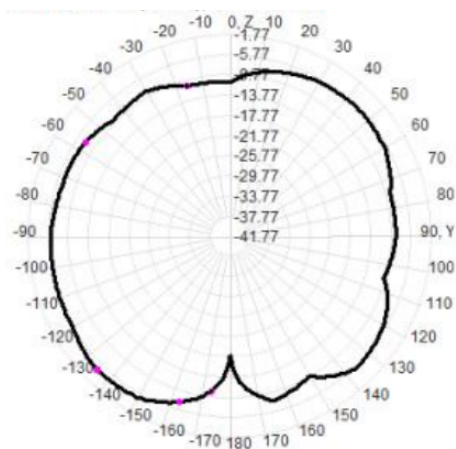
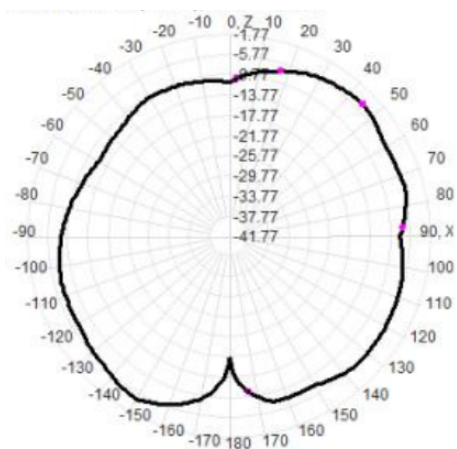
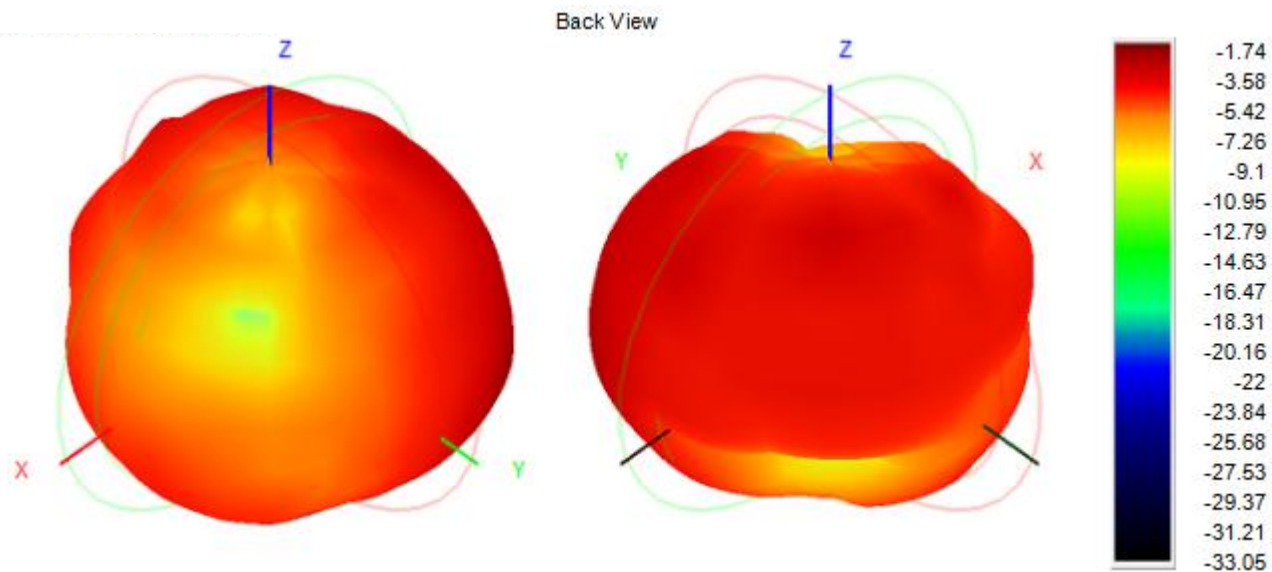
Gain & Efficiency — **BT- ANT(L/R)**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	18.39	0.24
2410	19.58	0.30
2420	21.58	0.50
2430	20.40	0.47
2440	20.11	0.45
2450	20.21	0.42
2460	20.88	0.36
2470	20.14	0.29
2480	20.58	0.34
2490	19.41	0.23
2500	19.21	0.25



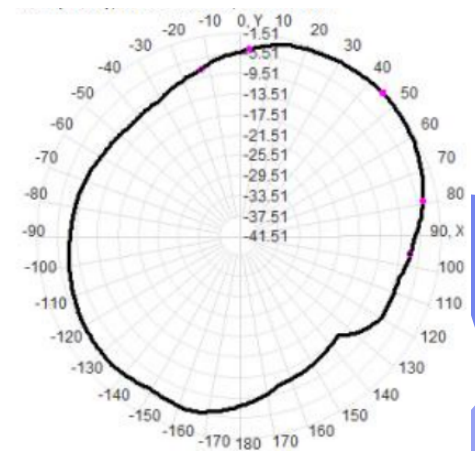
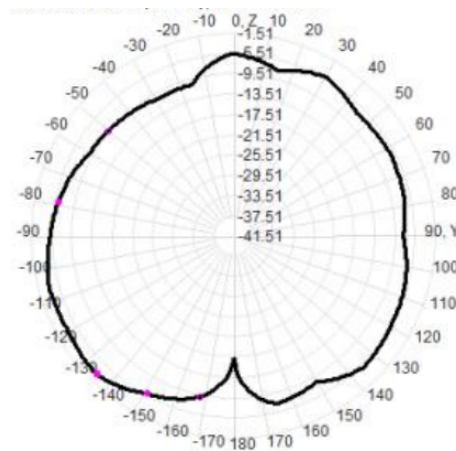
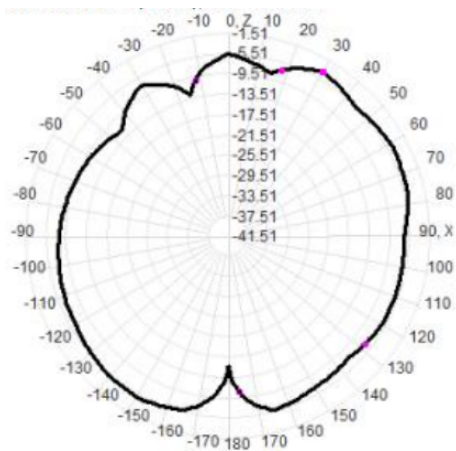
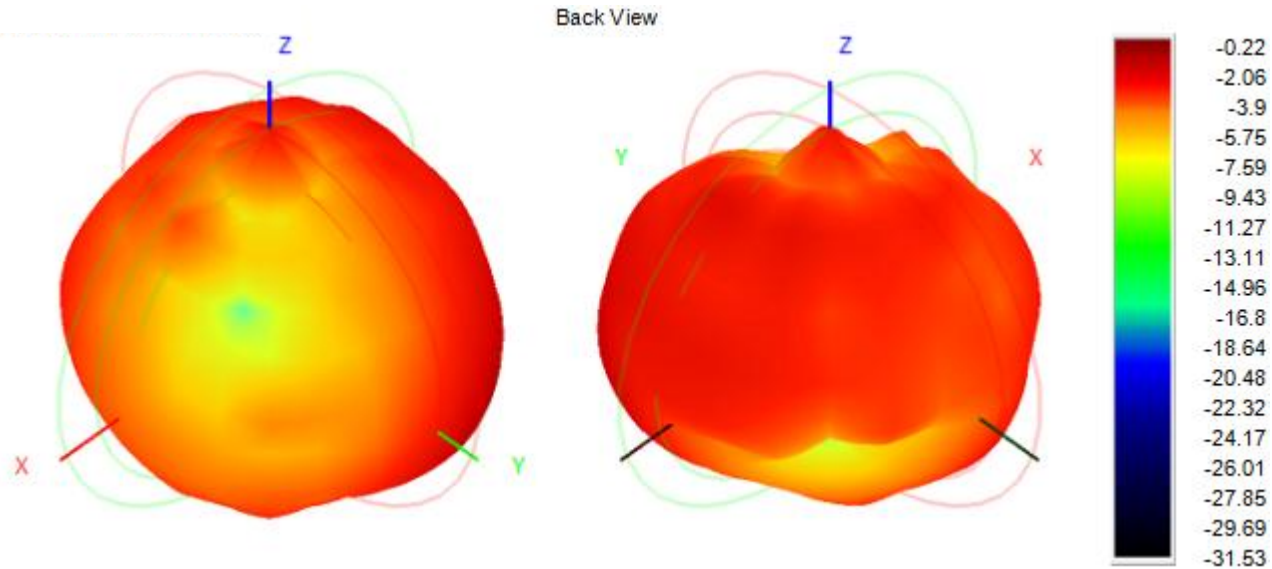
# Test Result

2D&3D — BT-ANT



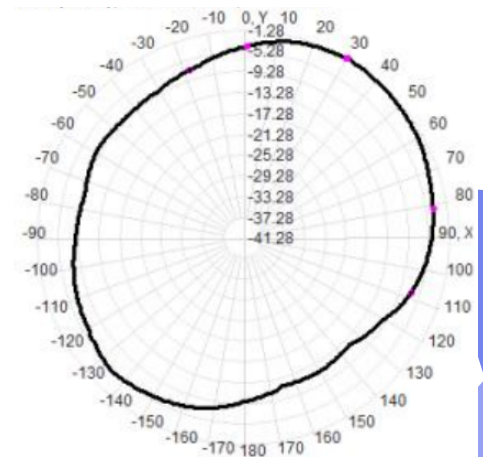
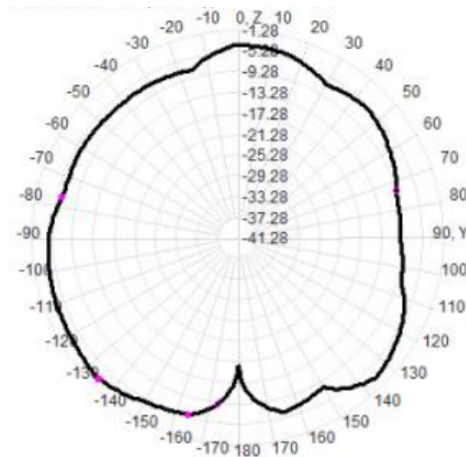
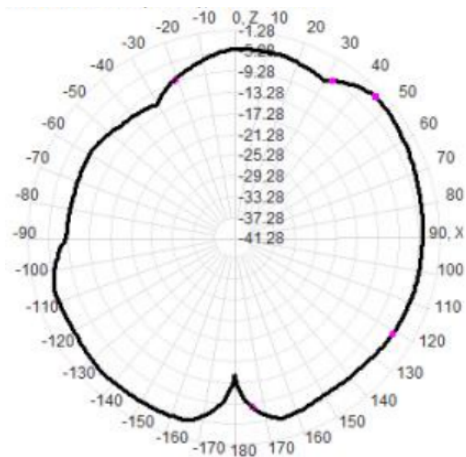
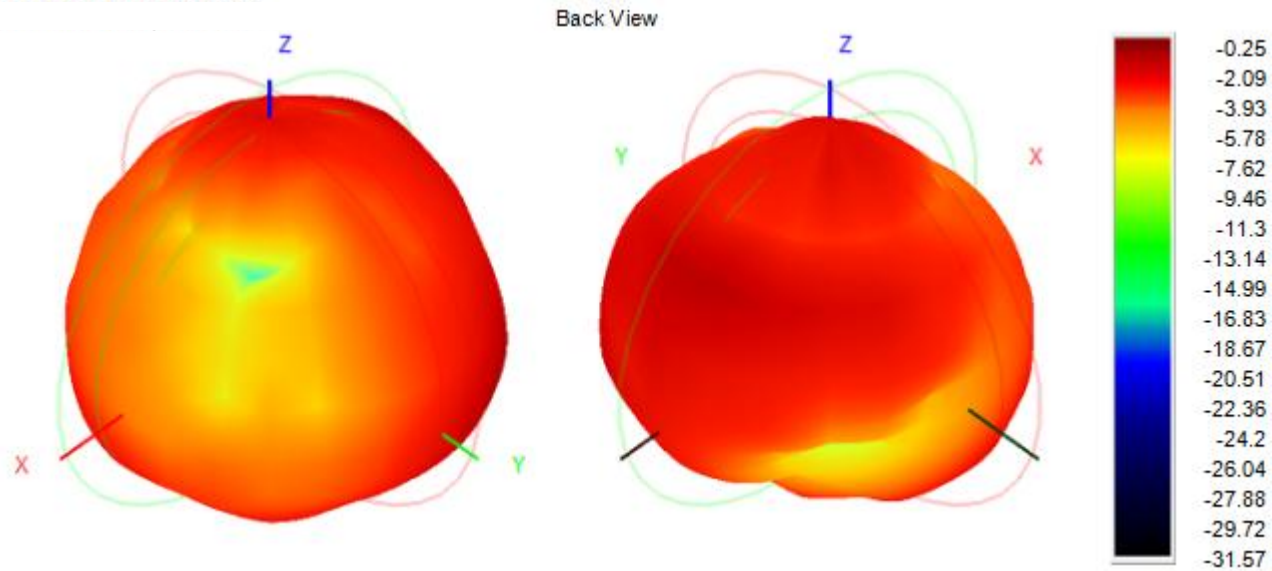
# Test Result

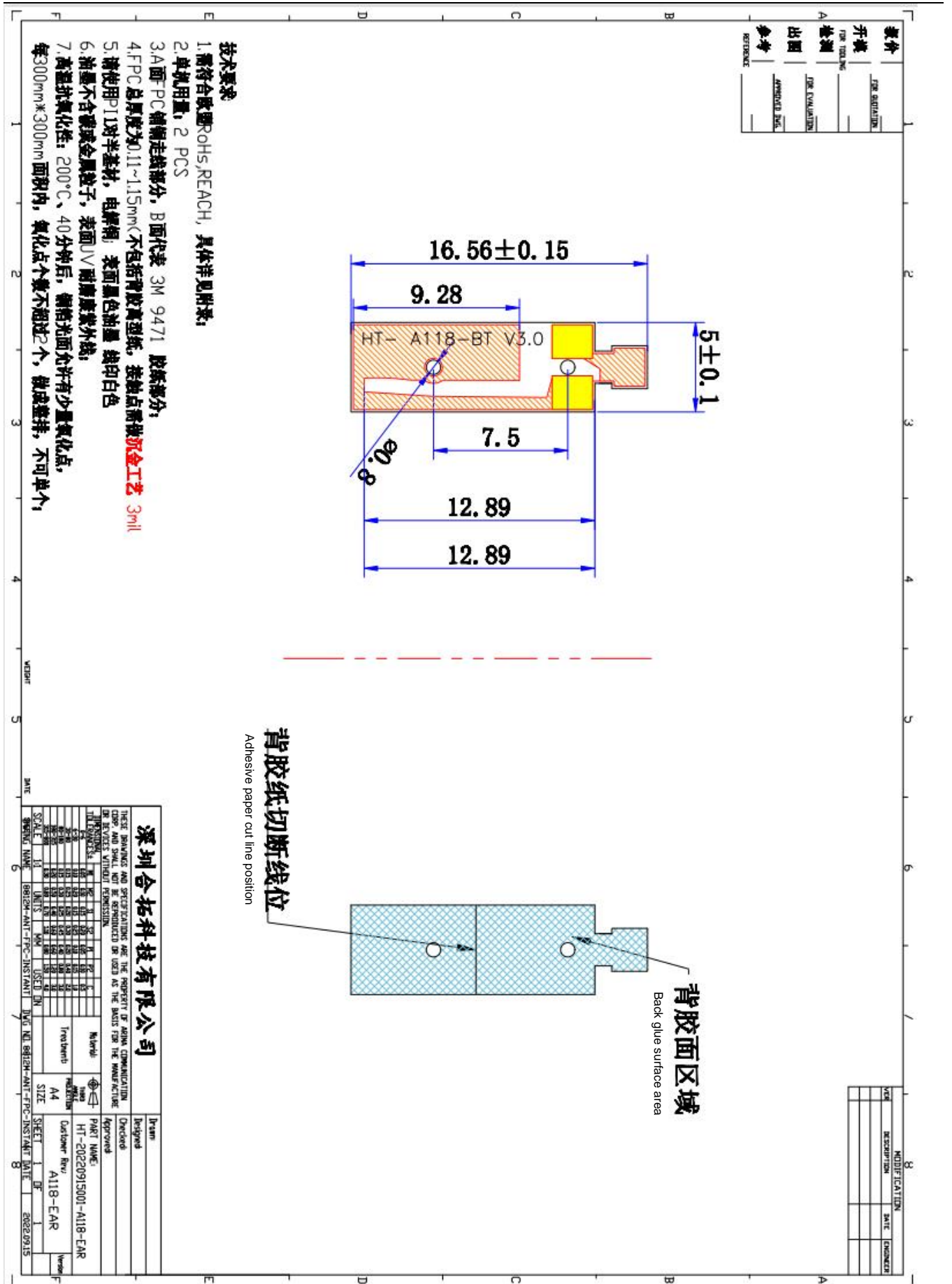
2D&3D — BT-ANT



# Test Result

2D&3D — BT-ANT





零件	FOR IDENTIFICATION
开模	FOR TOOLING
检测	FOR EVALUATION
出图	APPROVED DATE
参考	REFERENCE

**技术要求**  
 1. 需符合欧盟RoHS, REACH, 具体详见附录;  
 2. 单孔用量: 2 PCS

- 3A面 PC 铜箔走线部分, B面代表 3M 9471 胶纸部分;
- 4.FPC 总厚度为  $0.11 \sim 0.15\text{mm}$  (不包括背胶离型纸, 按触点需做镀金工艺 3mil)
5. 请使用 PI 对半基材, 电解铜 表面黑色油墨 钢印白色
6. 油墨不含银或金属粒子, 表面UV耐摩擦紫外线;
7. 高温抗氧化性:  $200^\circ\text{C}$ 、40分钟后, 铜箔表面允许有少量氧化点, 每  $300\text{mm} \times 300\text{mm}$  面积内, 氧化点个数不超过2个, 做成整排, 不可单个;

背胶纸切断线位  
 Adhesive paper cut line position

背胶面区域  
 Back glue surface area

MODIFICATION	
NO.	DATE

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DATE	REV	DESCRIPTION

Part Name: HT-20220915001-A118-EAR  
 Customer Rev: A118-EAR  
 Date: 2022-09-15