

5.8G Antenna Test Report

Customer	5.8G
Project	5. 8G
Antenna Revision	A1
Product Description	
Product No	
DATE	2023. 03. 9

Purpose

This report is to measure the performance of BT antenna for 5.8G 天线. The antenna operating frequency at 5.8GHz, 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

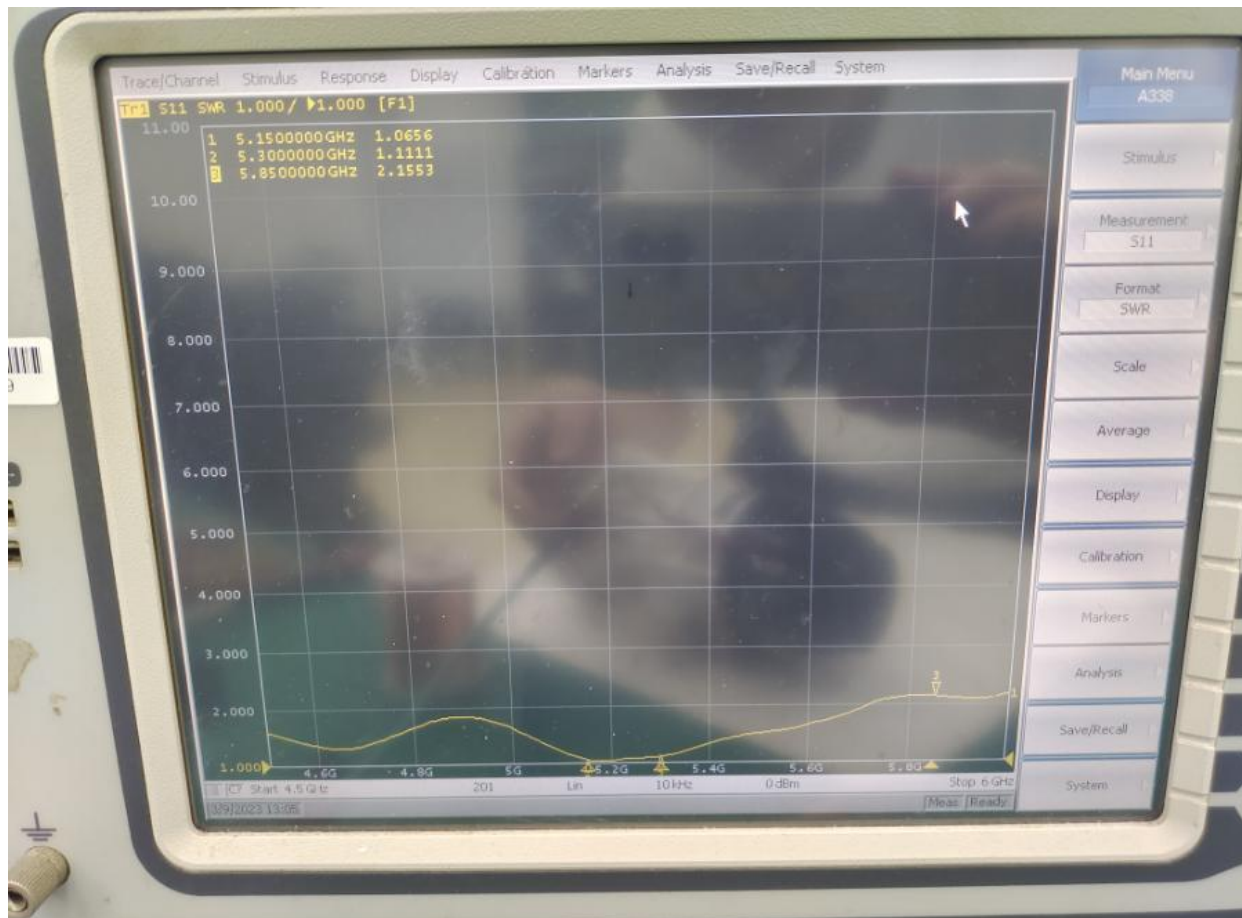
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



S11 smith—(5.8G ANT)

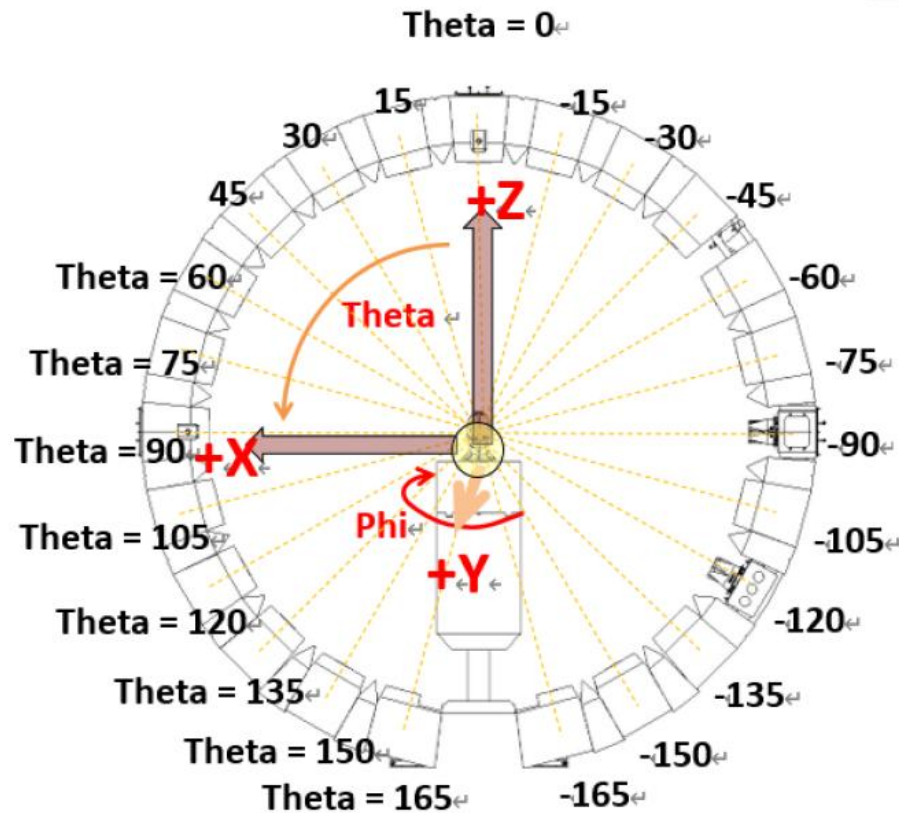


S11 SWR—(5.8G ANT)



Test Result

Sample status & coordinates



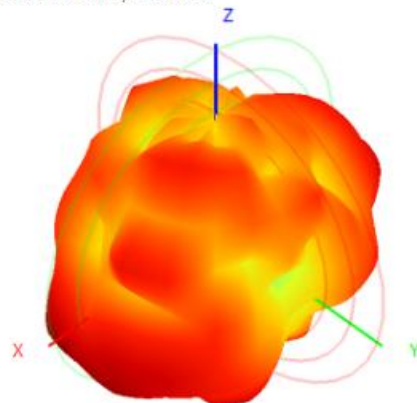
Test Result *Gain & Efficiency*—5.8G- ANT

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
5150.0	41.81	3.24
5200.0	44.66	3.38
5250.0	42.40	3.29
5300.0	45.20	3.28
5350.0	46.73	3.19
5400.0	47.02	3.99
5450.0	44.37	3.54
5500.0	45.13	3.41
5550.0	48.61	3.15
5600.0	44.18	3.81
5650.0	46.84	3.43
5700.0	48.23	3.36
5750.0	40.96	2.92
5800.0	42.21	3.11
5850.0	48.49	3.91

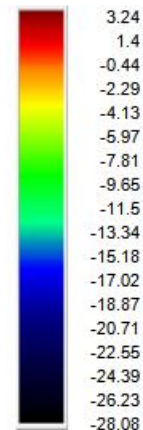
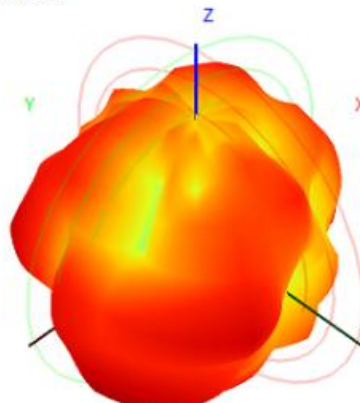
Test Result

2D&3D — 5.8G- ANT

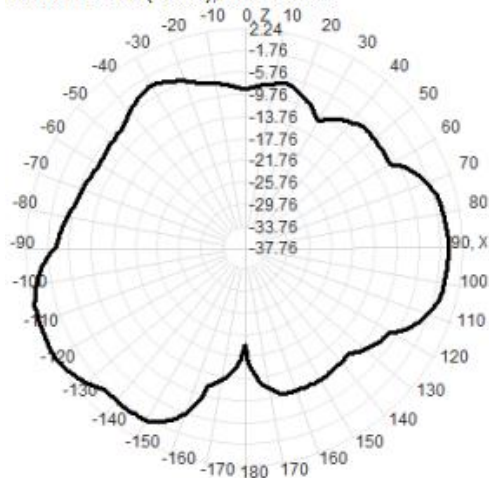
5150.0MHz H+V, Eff: 41.8%



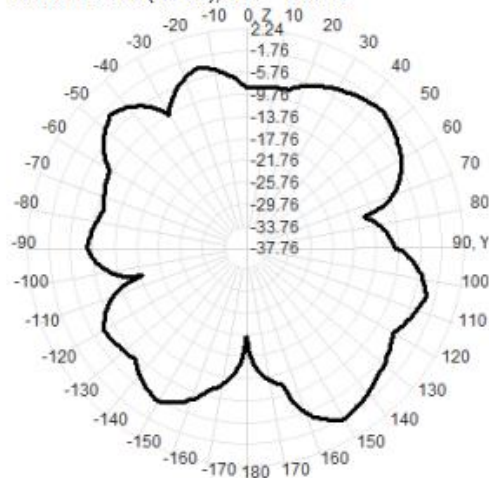
Back View



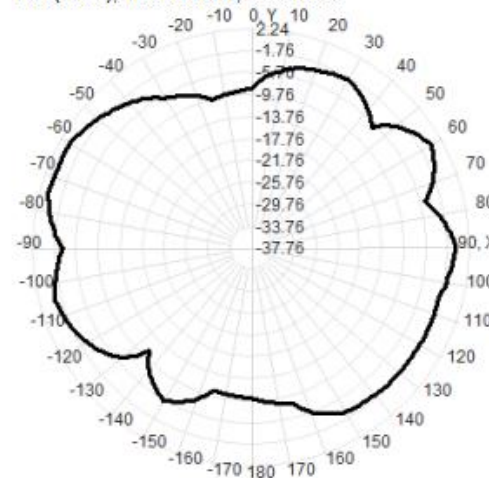
5150.0MHz Total(E1-XZ), Max= 2.24dBi



5150.0MHz Total(E2-YZ), Max= -1.80dBi



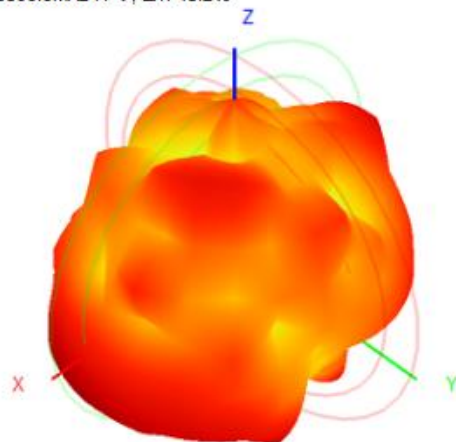
Total(H-XY), Max= 0.58dBi, CirD=12.09



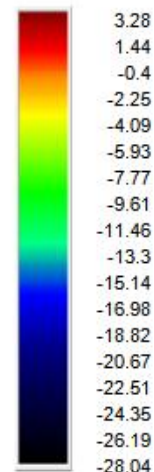
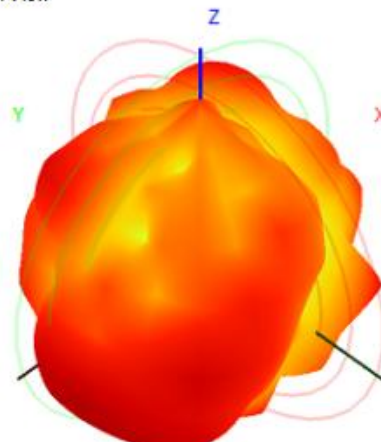
Test Result

2D&3D — 5.8G- ANT

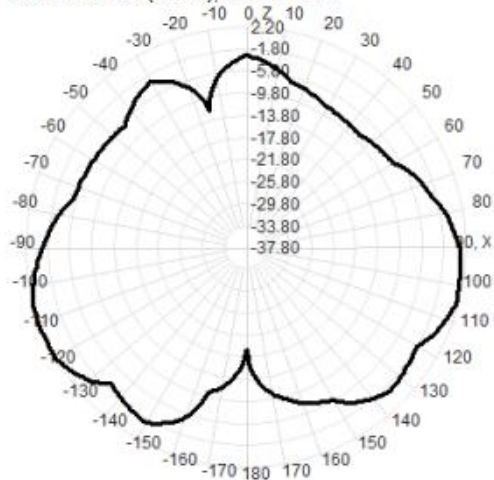
5300.0MHz H+V, Eff: 45.2%



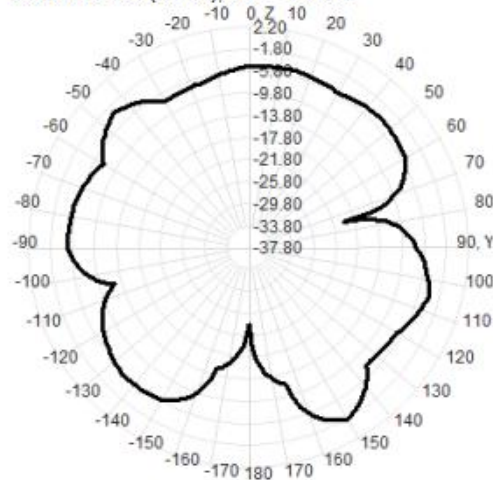
Back View



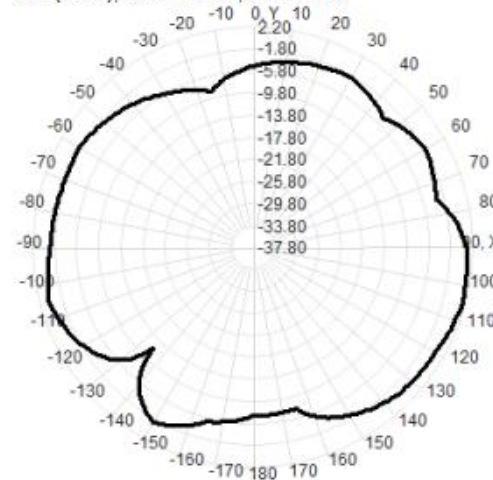
5300.0MHz Total(E1-XZ), Max= 2.20dBi



5300.0MHz Total(E2-YZ), Max= -1.95dBi



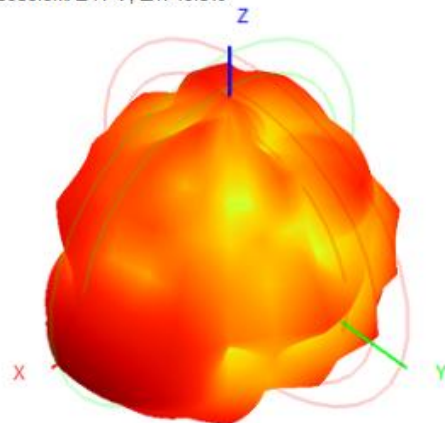
Total(H-XY), Max= 1.36dBi, CirD=13.55



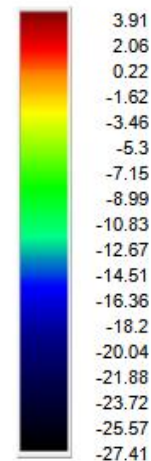
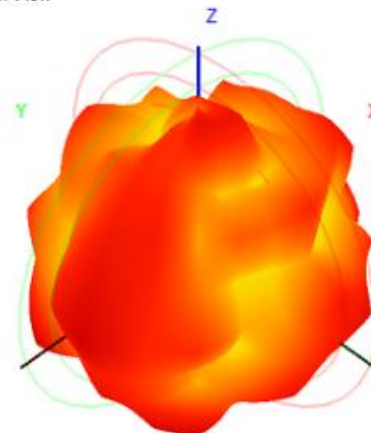
Test Result

2D&3D — 5.8G- ANT

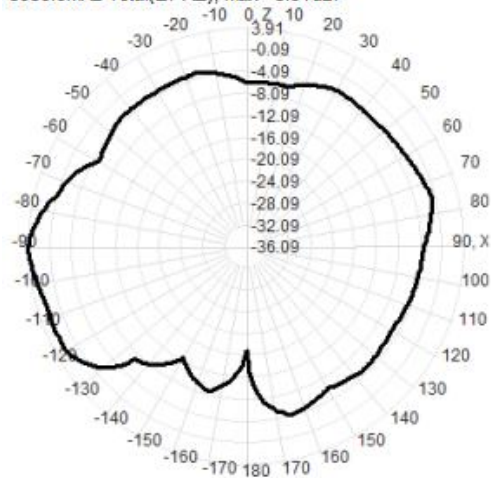
5850.0MHz H+V, Eff: 48.5%



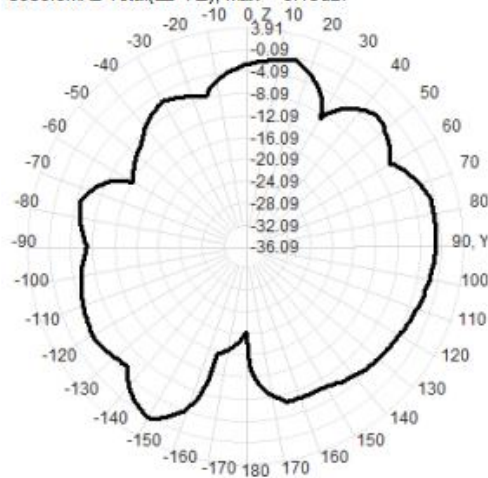
Back View



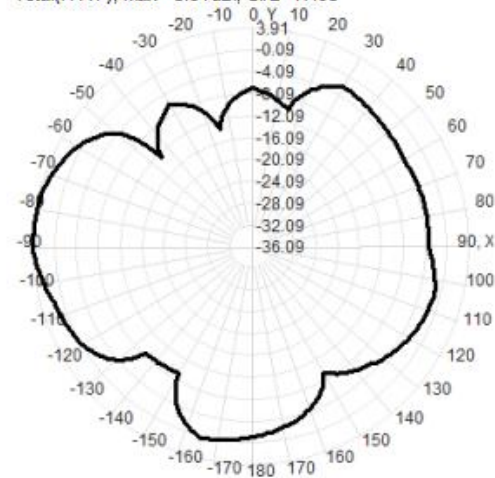
5850.0MHz Total(E1-XZ), Max= 3.91dBi

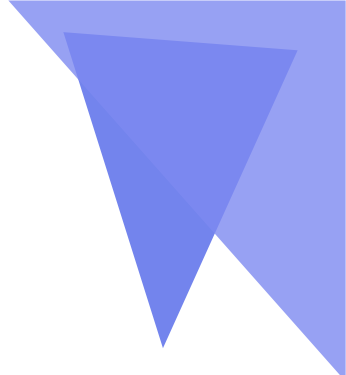


5850.0MHz Total(E2-YZ), Max= -0.13dBi



Total(H-XY), Max= 3.91dBi, CirD=17.85



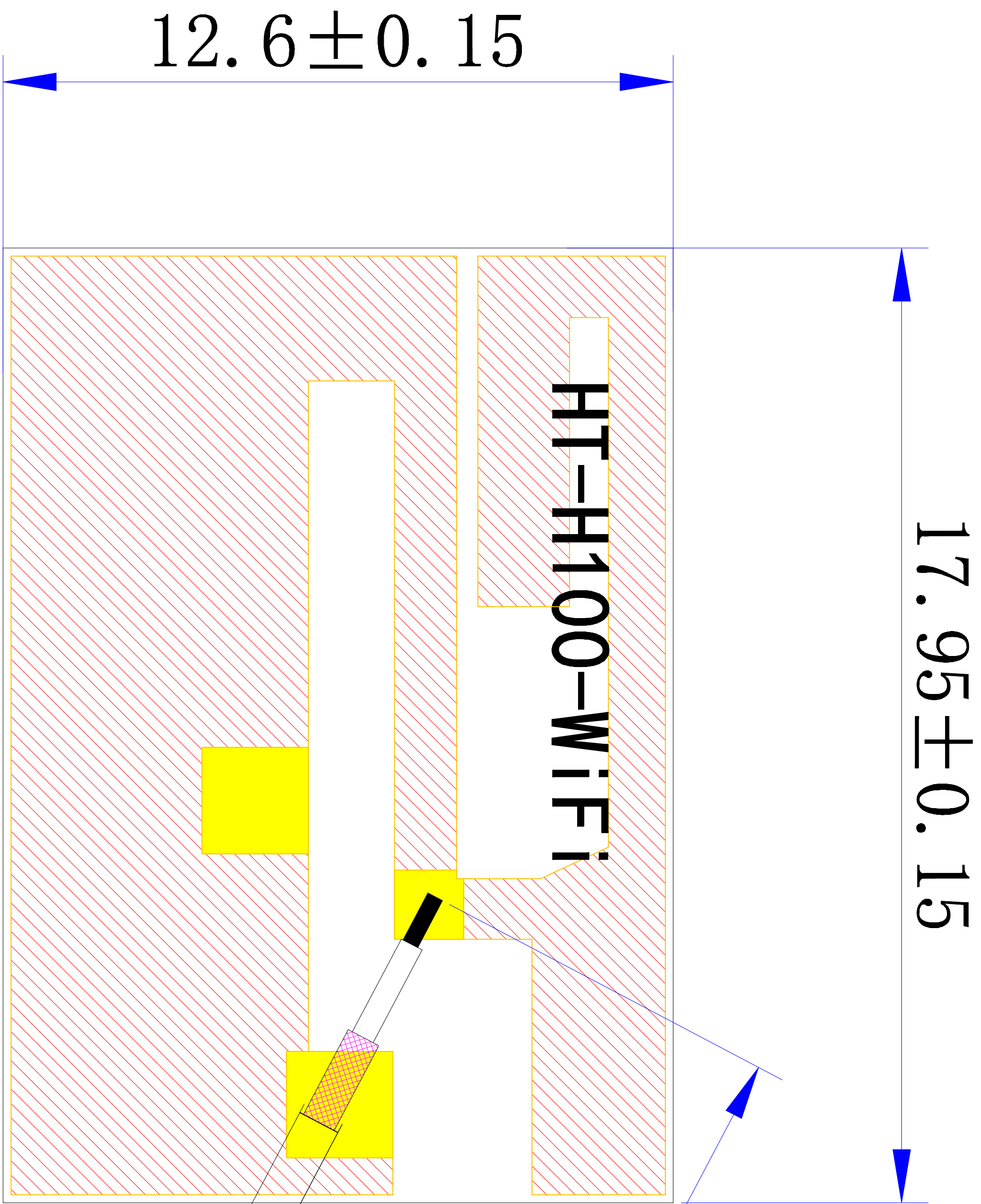


Thanks for your comment!

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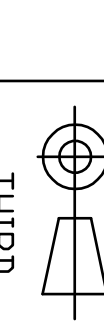
报价	
FOR QUOTATION	
开模	
FOR TOOLING	
检测	
FOR EVALUATION	
出图	
APPROVED DWG.	
参考	
REFERENCE	



技术要求

- 需符合欧盟RoHS,REACH, 具体详见附录;
- 单机用量: 1 PCS
- A面FPC铺铜走线部分, B面代表 3M 9448A 胶纸部分;
- FPC 总厚度为0.11~1.15mm(不包括背胶离型纸, 接触点需做OSP工艺 焊接80mm 1.13同轴线
- 请使用P11对半基材, 电解铜 表面黑色油墨 丝印白色字符
- 油墨不含碳或金属粒子, 表面UV 耐磨康紫外线;
- 高温抗氧化性: 200°C、40 分钟后, 铜箔光面允许有少量氧化点,
- 每300mm*300mm 面积内, 氧化点个数不超过2个, 做成整排, 不可单个;

MODIFICATION		
VER	DESCRIPTION	DATE

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															Designed:			
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															Approved:			
DIMENSIONAL TOLERANCES±															PART NAME:			
															HT-20220610001-H100			
Material:																	Customer Rev:	
																	H100-ANT-ASM	
																	Version	
SCALE 1:1 UNITS MM USED ON															SHEET 1 OF 1			
DRAWING NAME 8812M-ANT-FPC-INSTANT DWG NO. 8812M-ANT-FPC-INSTANT															DATE 2022.06.10			