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APPROVAL SHEET

Customer		Specs	MC013
Part Number	AW006-MC013-021-A0	Frequency Band	2.4G-BT
Color	BLACK	Edition	REV:A0
Salesperson	XIE	Design	宋兵伟
Structure	QIN	Confirm	
Date	2024.12.25	Signing Date	
Customer confirmation:			
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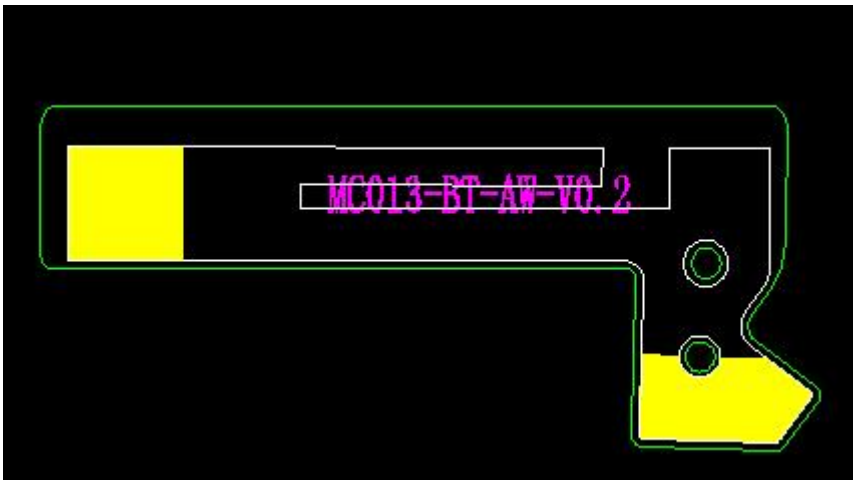
catalog

一、Product Specifications

The report mainly provides the parameter test of MC013 antenna performance. The MC013 antenna is a BT antenna.



1. Specification standard 2400-2480mhz, resonant in this band.

2. Antenna matching circuit

Antenna structure: FPC

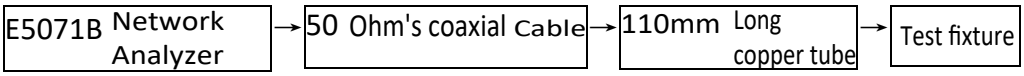
Matching circuit (Matching circuit)

(The accuracy of the matching value is recommended to be higher)

三、 Testing of parameters

1.

VSWR The test devices are in sequence connected to:



Treatment oftest instruments:

Use a hard cable to lead out the SMA-J connector from the antenna 50 ohm test point on the mobile phonePCB, connect it to the copper tube with a choke, and then connect to other devices in turn.

2.Test results.

Everything is fine.

四、 Setup for a source test

The source test devices are connected in sequence as:

1. The venue for the test
AW microwave anechoic chamber: the test frequency range is 400MHz to 6GHz, the quiet area is 40cm circumference,the reflectivity is less than -90dB.

2. The results of thetest.

The followingis the MC013 project BTantenna test results:

Gain&Efficiency			
frequency (MHz)	gain (dBi)	efficiency (dBi)	efficiency (%)
2400	-0.11	-6.04	24.90
2410	-0.03	-5.81	26.26
2420	0.17	-5.49	28.27
2430	-0.07	-5.82	26.16
2440	0.07	-5.71	26.86
2450	0.02	-5.71	26.86
2460	0.43	-5.4	28.82
2470	-0.06	-5.79	26.37
2480	-0.14	-5.69	26.98

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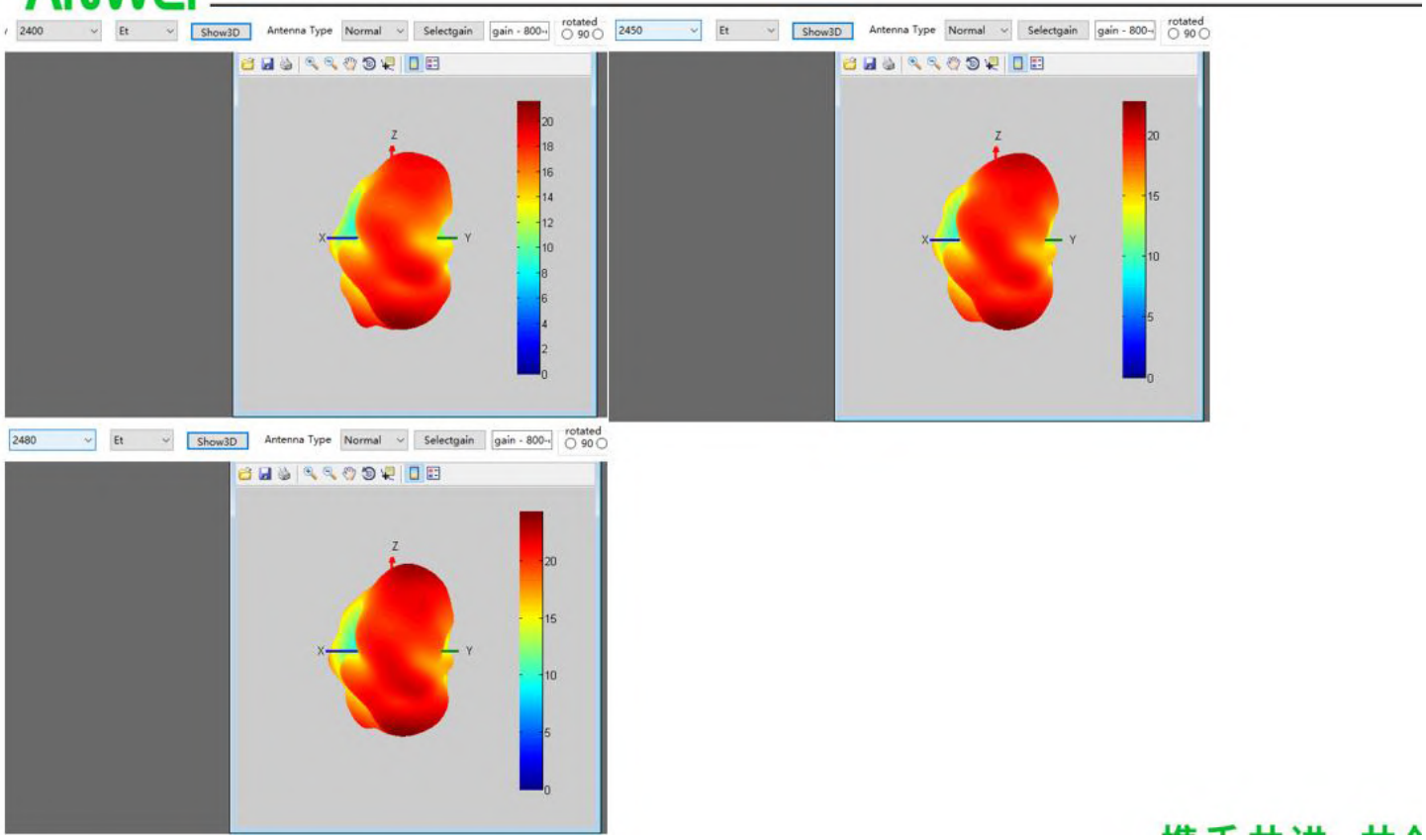
3D



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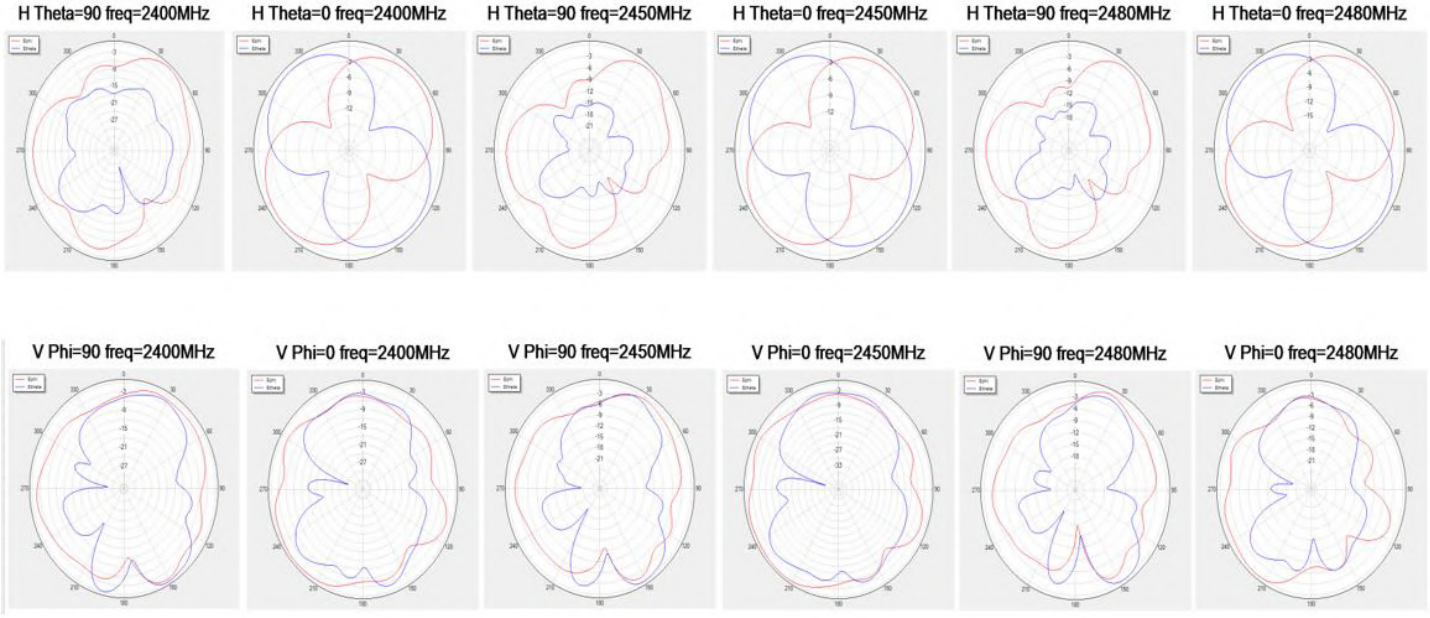
2D

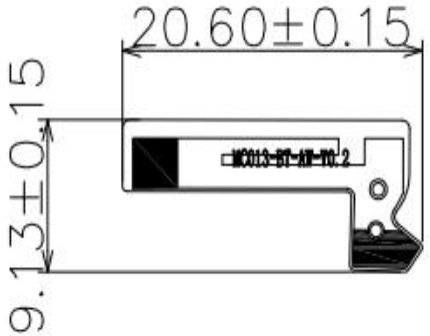


五、Recommendations andconclusions

This report is measured based on the performance ofthe antenma electrical equipment provided bv the customer, and your company is requested to reviewit carefuh

六、 Structure drawings

丝印白色亮光字码



半切模整版出货

技术要求： 1对半材料

1、绿色为外形轮廓，白色填充部位为电气走线覆铜；
2、基材材质为聚酰亚胺或聚酯薄膜；
3、图示为正面，反面背胶，此FPC背胶3M300LSE(9471LE)；
4、打*为必测尺寸及重点尺寸，铜箔线路所有尺寸公差不超过±0.05，
模具冲出外型尺寸公差不超过±0.1，未注尺寸以图形为准；
5、基材25μm，铜泊18μm，镀镍1.5~5.0um；镀金0.025~0.075μm；
走线面除焊盘外其它区域表面亚光黑色；
6、可靠性测试：盐水喷雾试验48H\橡皮摩擦测试（100个循环）\附脚性测试（50个循环）\
恒温恒湿试验\冷热冲击试验（12个循环）\附着力测试\金手指引脚处挠折性测试；
7、出现下列问题均视为不合格：起泡分层\露铜\折皱、折痕\边缘毛边\字符不清；
8、包装应防潮、防潮、表面干净，完好无破损。

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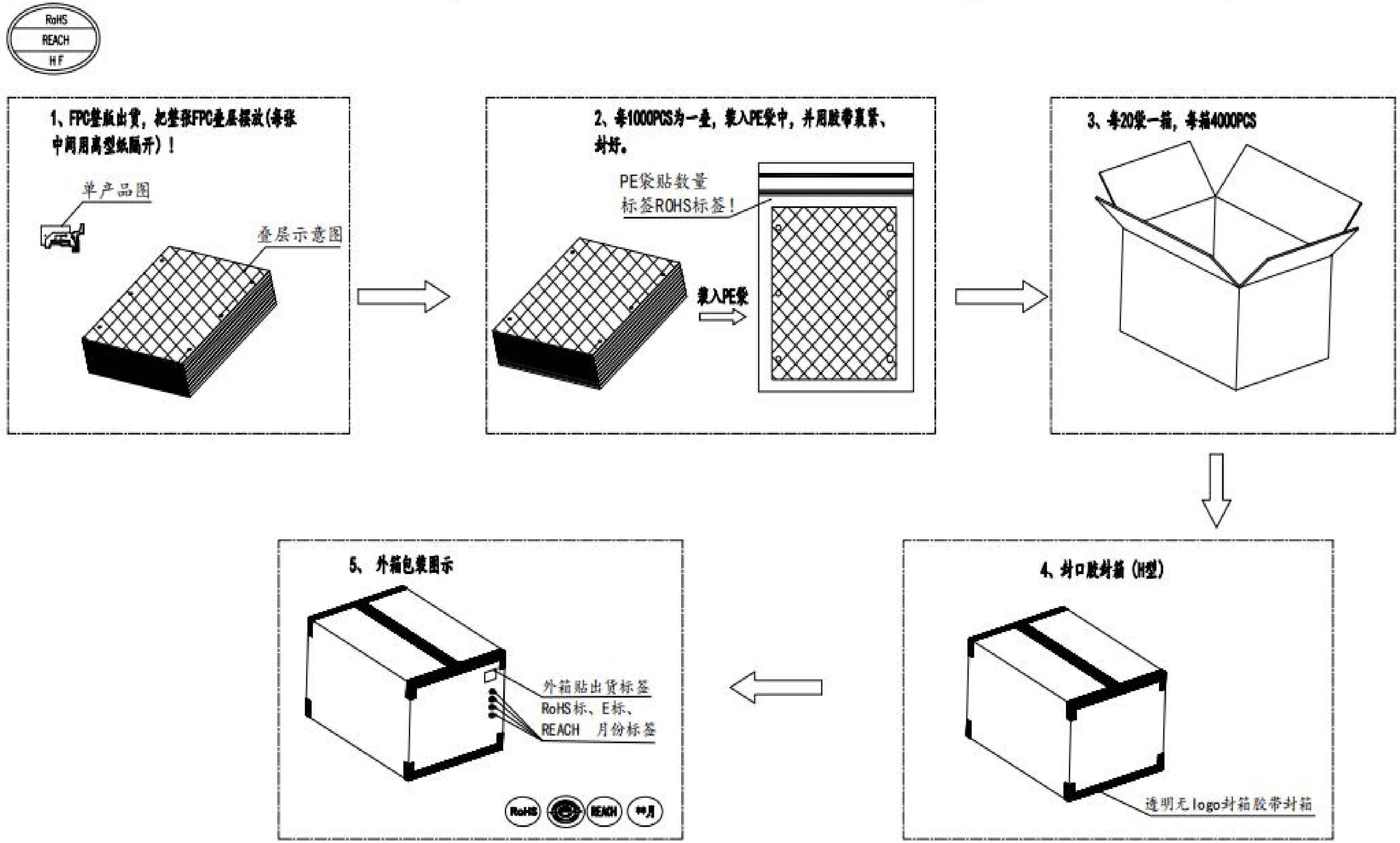
第三视角				项目名称	MC013	日　期	2025-01-06
0~10	±0.05	⌖	0.03			设　计	
10~30	±0.10	○	0.03	产品名称	BT天线	审　核	MD QYL
30~50	±0.15	◎	⌀0.02				RF SBW
50~80	±0.20	⊥	0.02	产品料号	AW006-MC013-021-A0	批　准	
角度	±1°	▱	0.05	材　质	FPC	单位 mm	比例 FIT　版本 A1
第1页，共1页							



注意事项：

1. 包装时产品轻拿轻放，避免产品刮伤。
2. 整版包装好后，检查是否有漏装，产品的放置方向是否正确。
3. 若有未装满之零数箱，须以缓冲材料塞满。
4. 整箱封装好后，检查标签是否贴好，字迹是否工整，清晰，标签内容是否正确，完善。
5. 箱内需要附出货检验报告。

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第三视角				项目名称		日期	
0~5	±0.05	⌖	0.03			设计	
5~30	±0.08	○	0.03	产品名称	FPC天线组件包装	审核	MD
30~50	±0.10	◎	0.02				RF
50~80	±0.12	⊥	0.02	产品料号		批准	
角度	±1°	⏥	0.05				
第 1 页，共 1 页				材料		单位 mm	比例 FIT / 版本 A1

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