



深圳市宇鸿实业有限公司

Shenzhen Yuhong Industrial Co., LTD

零件规格书

Specification of parts

客户名称/Customer name:	东莞市元烽伦电子有限公司
产品机型/Product Model:	TW303
客户料号/Risuntek P/N:	/
版本/Version:	A0
零件名称/Prodcut Name:	FPC天线/FPC antenna
产品描述/Description:	BT2400-FPCB内置蓝牙耳机天线
日期/Date:	2023/11/24

客户签署
(Customer Signatures)

项目 (PM)	结构 (ME)	品质 (QE)

我司签署
(Our signature)

品质 (QE)	结构 (ME)	射频 (RF)
杨进	张清花	毛路平

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目 录

catalogue

一、制/修订变更履历表
Prepare/revise the resume

二、产品图纸
Product drawing

三、电气、机械性能说明
Electrical and mechanical properties

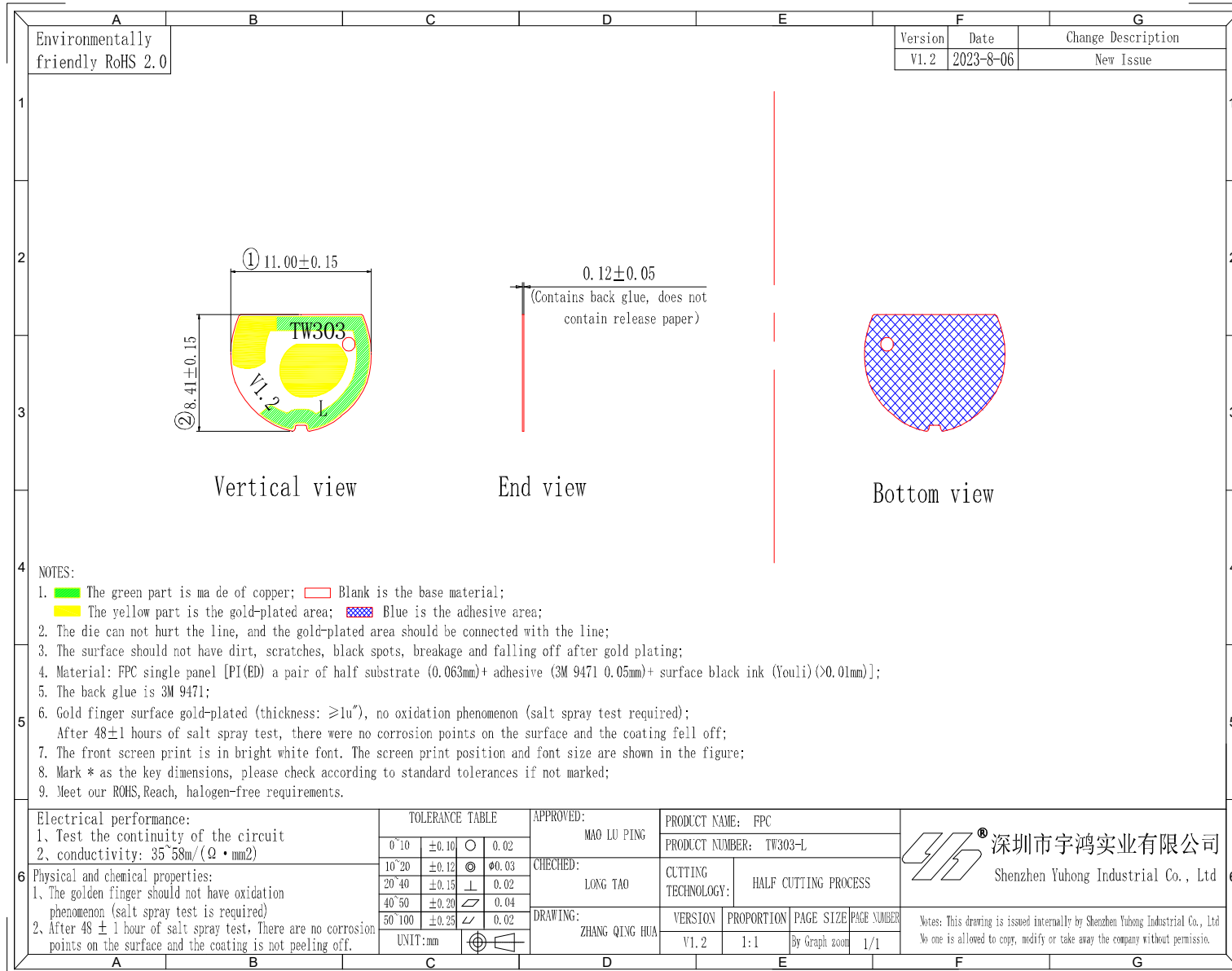
一、制/修订变更履历表

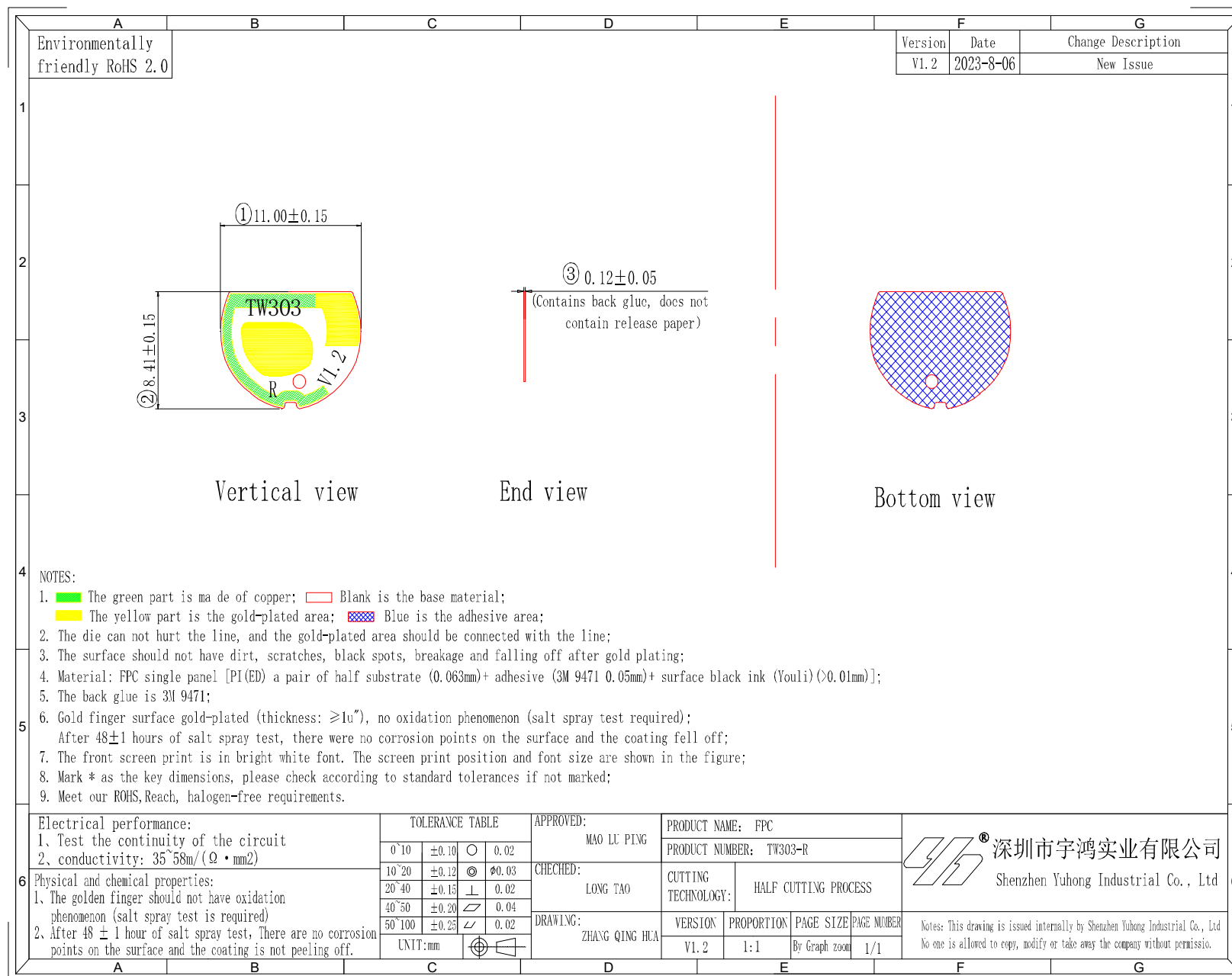
Prepare/revise the resume

版本 edition	修订页面 Revision page	变更时间 Change time	变更人 Alteration party	变更原因及内容 Reason and content of change	备注 remark
A0	—	2023/11/24	Cindy	初版天线形式 First version of the antenna form	
A1					
A2					
A3					
A4					
A5					
A6					
A7					
A8					
A9					

二、产品图纸

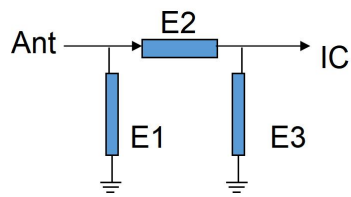
Product drawing



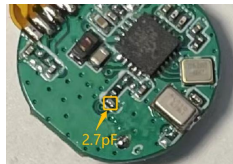
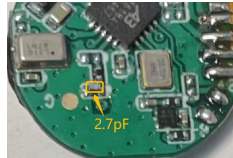


三、电气、机械性能说明 Electrical and mechanical properties

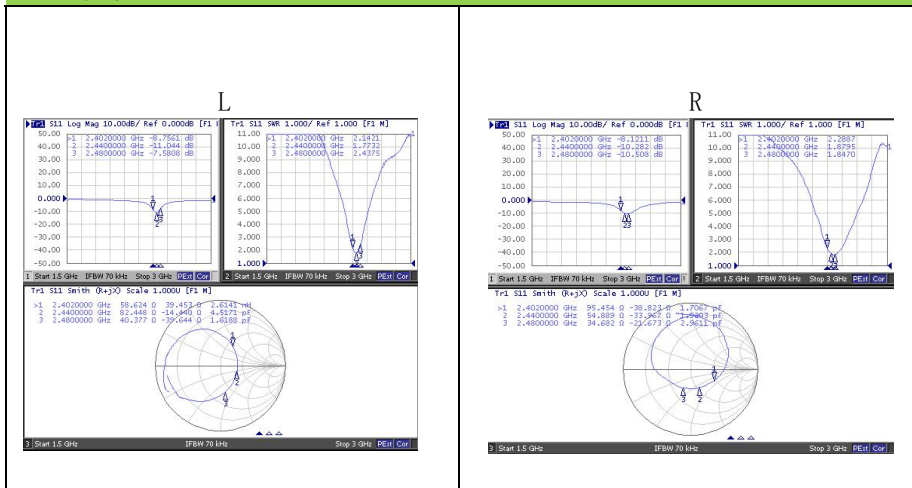
1、匹配电路图/Match the circuit diagram



Element	Value
E1	ESD
E2	0Ω
E3	2.7PF

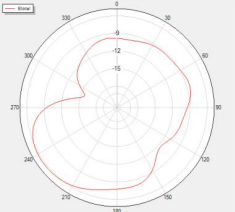
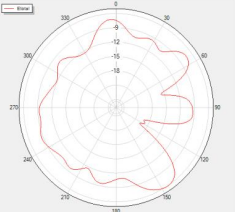
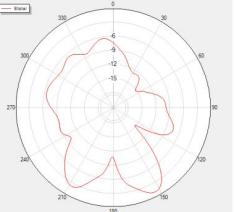


2、S11参数/S11 Parameters

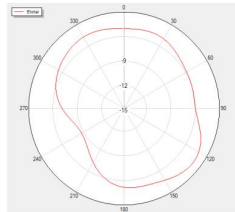
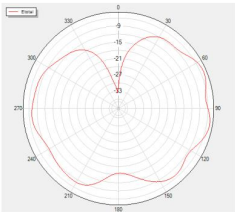
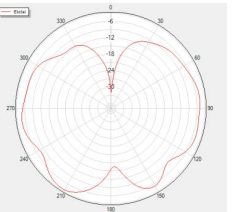


3、无源效率/Passive efficiency

L				
频点MHz	增益(dBi)自由	效率(%)自由	增益(dBi)头模	效率(%)头模
	Gain (dBi) freedom	Efficiency (%) Freedom	Gain (dBi) head die	Efficiency (%) head mold
2400	-2.48	24.59	-7.77	5.88
2410	-2.14	25.61	-7.67	5.49
2420	-2.05	25.87	-7.78	5.79
2430	-1.92	26.63	-6.79	5.44
2440	-1.79	26.47	-6.88	5.67
2450	-1.56	25.13	-6.59	5.12
2460	-1.78	25.44	-6.7	5.32
2470	-2.24	24.6	-7.61	5.33
2480	-2.59	24.7	-7.73	5.87
2490	-2.52	23.64	-7.69	4.85
2500	-2.59	23.89	-7.49	4.47
平均值/AVG	-2.15	25.14	-7.34	5.38

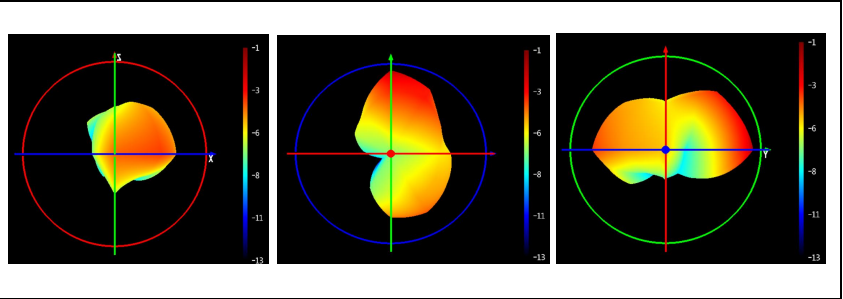
Theta=90 Freq=2440MHz	Phi=90 Freq=2440MHz	Phi=0 Freq=2440MHz
		

R				
频点MHz	增益(dBi)自由	效率(%)自由	增益(dBi)头模	效率(%)头模
	Gain (dBi) freedom	Efficiency (%) Freedom	Gain (dBi) head die	Efficiency (%) head mold
2400	-2.49	25.54	-8.05	5.91
2410	-2.37	26.38	-7.04	5.96
2420	-2.42	26.47	-7.58	5.14
2430	-2.59	25.49	-7.94	5.68
2440	-2.37	27.08	-7.04	5.38
2450	-2.78	26.12	-7.88	5.30
2460	-2.89	25.53	-7.69	6.09
2470	-2.37	26.1	-7.55	5.49
2480	-2.55	25.6	-7.54	5.08
2490	-2.69	23.58	-7.56	4.96
2500	-3.15	23.05	-7.48	5.01
平均值/AVG	-2.61	25.54	-7.58	5.45

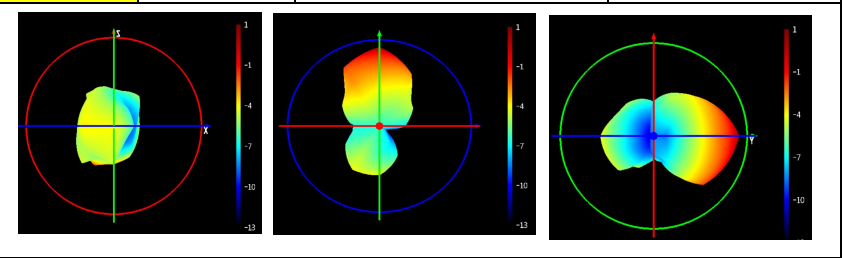
Theta=90 Freq=2440MHz	Phi=90 Freq=2440MHz	Phi=0 Freq=2440MHz
		

4、有源OTA数据/Active OTA data

L	信道/channel	TRP (dbm)	TRP (dBm)
自由空间 Free space	0	0.3	-80.6
	39	0.5	-81.8
	78	0.4	-81.5
L	信道/channel	TRP (dbm)	TIS (dbm)
二代头模 Second generation head die	0	-6.9	-75.8
	39	-6.5	-75.9
	78	-6.3	-75.4



R	信道/channel	TRP (dbm)	TRP (dBm)
自由空间 Free space	0	1	-81.1
	39	1.3	-82.6
	78	1.8	-83.4
R	信道/channel	TRP (dbm)	TIS (dbm)
二代头模 Second generation head die	0	-6.2	-76.5
	39	-5.5	-76.3
	78	-5.8	-76.1



5、 测试环境/Test environment

