



深圳市鹿兴科技有限公司

Shenzhen Luxing Technology Co., LTD

零件规格书

Part specifications

客户名称 Customer name:	东莞市实优特电子有限公司
产品机型 Product Model:	0657
客户料号 Risuntek P/N:	307-07033-0070
版本 Version:	A0
零件名称 Prodcut Name:	FPC天线
产品描述 Description:	19.59*11.31*0.12mm FPC天线, 一对半电解铜 3M9471 R
日期 Date:	2023/3/15

客户签署
(Customer Signatures)

项目 (PM)	结构 (ME)	品质 (QE)

我司签署
(Inner Signatures)

品质 (QE)	结构 (ME)	射频 (RF)

地址: 深圳市龙华新区民治大道与工业西路交汇展滔科技大厦A座1308

Address: 1308, Block A, Zhantao Technology Building, intersection of Minzhi Avenue and Gongye West Road, Longhua New District, Shenzhen

电话 telephone: 0755-21031946

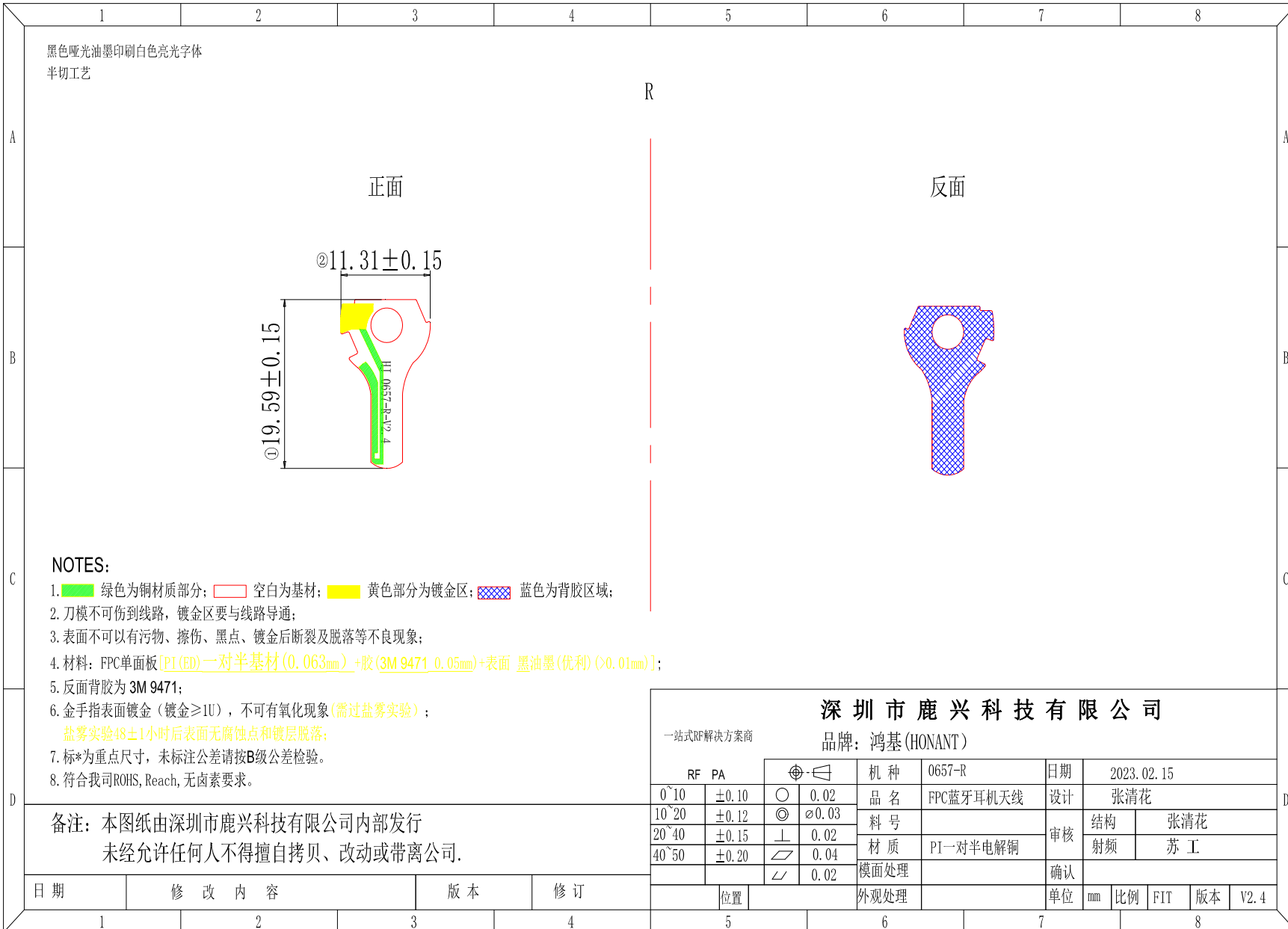
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一、制/修订变更履历表

版本	修订页面	变更时间	变更人	变更原因及内容	备注
A0	—	2023/3/15	张清花	初版天线形式	
A1					
A2					
A3					
A4					
A5					
A6					

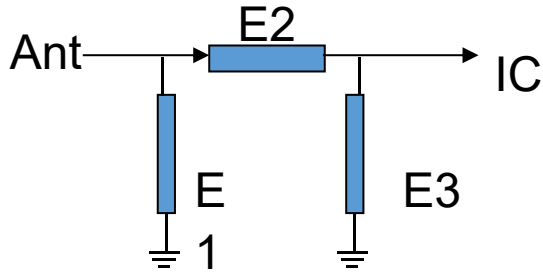
二、产品图纸



RF PA		⊕		机种	0657-R	日期	2023.02.15				
0~10	±0.10	○	0.02	品名	FPC蓝牙耳机天线	设计	张清花				
10~20	±0.12	◎	∅0.03	料号		审核	结构	张清花			
20~40	±0.15	⊥	0.02	材质	PI一对半电解铜		射频	苏工			
40~50	±0.20	∠	0.04	模面处理		确认					
				外观处理		单位	mm	比例	FIT	版本	V2.4

三、电气、机械性能说明

1、匹配电路图



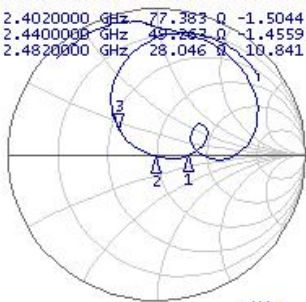
Element	Value
E1	N/A
E2	0欧姆
E3	N/A



2、S11参数

Tr1 S11 Smith (R+jX) Scale 1.000U [F1]

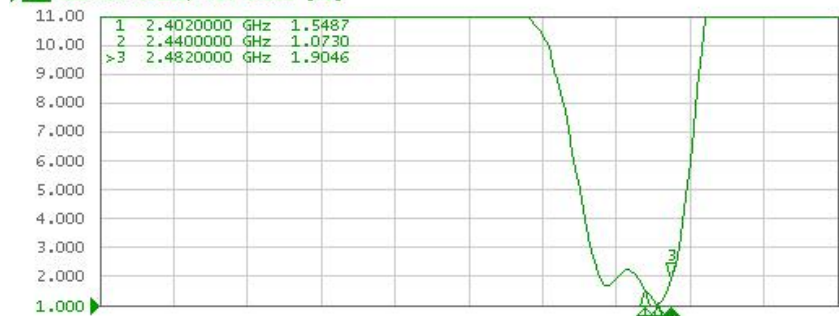
1	2.4020000 GHz	77.383 Ω	-1.5044 Ω	4+
2	2.4400000 GHz	49.262 Ω	-1.4559 Ω	4+
>3	2.4820000 GHz	28.046 Ω	-10.841 Ω	6S



Tr2 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]



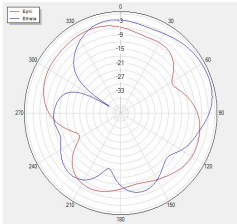
Tr3 S11 SWR 1.000/ Ref 1.000 [F1]



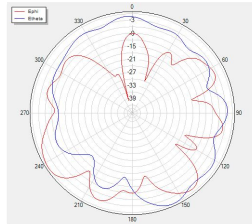
3、无源效率

Freq[MHz]	Gain(dBi)	Efficiency
	自由空间	自由空间
2400	-0.27	28.21
2410	0.11	29.56
2420	0.39	30.58
2430	0.53	31.94
2440	0.53	32.87
2450	0.53	33.29
2460	0.49	33.1
2470	0.39	32.02
2480	0.22	31.86
2490	-0.03	31.1
2500	-0.39	30.12

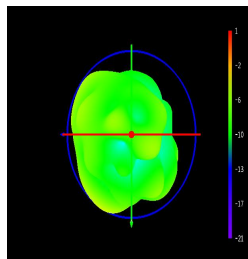
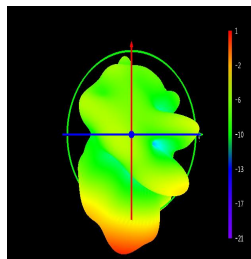
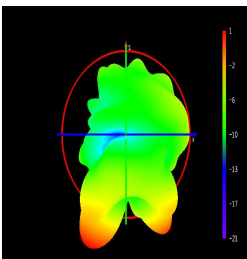
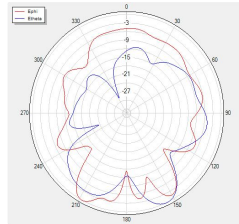
Theta=90 freq=2400MHz



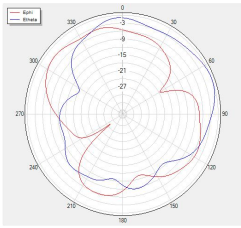
Phi=90 freq=2400MHz



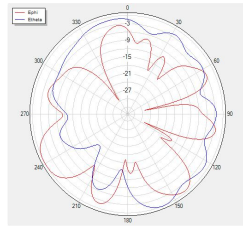
Phi=0 freq=2400MHz



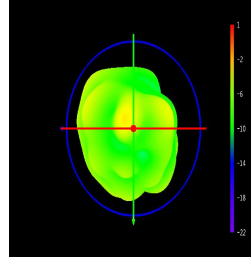
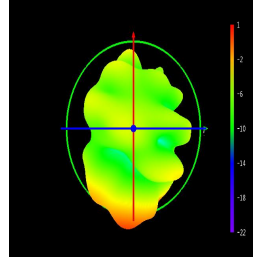
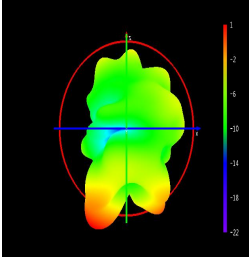
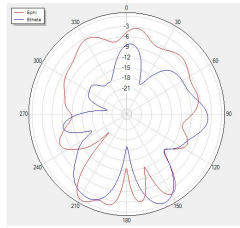
Theta=90 freq=2450MHz



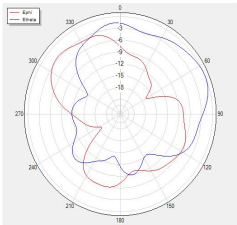
Phi=90 freq=2450MHz



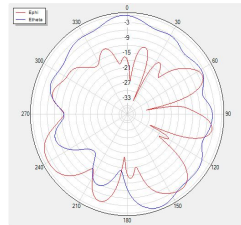
Phi=0 freq=2450MHz



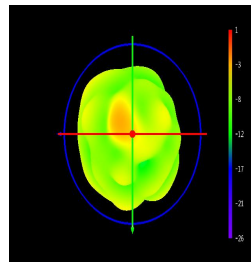
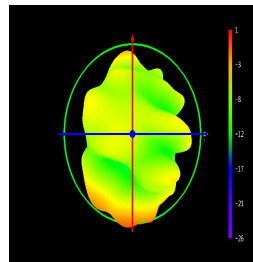
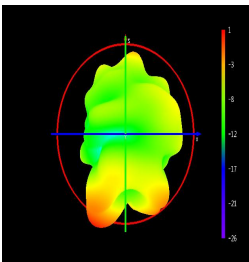
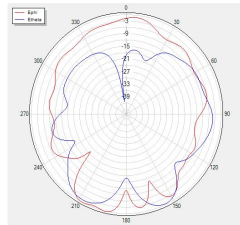
Theta=90 freq=2480MHz



Phi=90 freq=2480MHz



Phi=0 freq=2480MHz



4、有源OTA数据

R	信道	TRP (dbm)	TRP (dBm)
自由空间	0	4.83	-87.05
	39	3.56	-87.15
	78	3.02	-87.87
R	信道	TRP (dbm)	TIS (dbm)
二代头模	0	-5.13	-78.75
	39	-6.03	-78.69
	78	-6.52	-77.29

5、实测效果

测试手机	三星S6
距离	11米
测试场地	华为人行道
测试员	苏工