



深圳市宇鸿实业有限公司

Shenzhen Yuhong Industrial Co., Ltd

承 认 书

SPECIFICATION FOR APPROVAL

客 户 名 称

Dongguan yuanfenglun electronics co., ltd

CUSTOMER NAME:

客 户 料 号

CUSTOMER P/N:

产 品 料 号

PRODUCT

P/N:

HJ-TW305-R-A2

产 品 名 称

PRODUCT

NAME:

FPC antenna

规格描述:

BT2400-FPCB has built-in Bluetooth headset antenna
(HJ-TW305-R-A2).

Description

版本

REV:

A0

出厂签章

S I G N	核 准 APPROVED BY	审 核 CHECKED BY	制 作 DRAMN

客户签章

S I G N	品 质 QE	开 发 R&D	工 程 PE

Address: Room 1308, Block A, Zhantao Technology Building
, Minzhi Avenue, Longhua New District, Shenzhen
Tel: +86-755-2103194621011595



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一、 版本履历表（Revision History）：

版本号 Reversion	修订页面 Revision page	变更日期 Change date	修订人 Revised by	修订原因及内容 Reason and content for revision	备注 Remarks
A0	—	2024/1/4			



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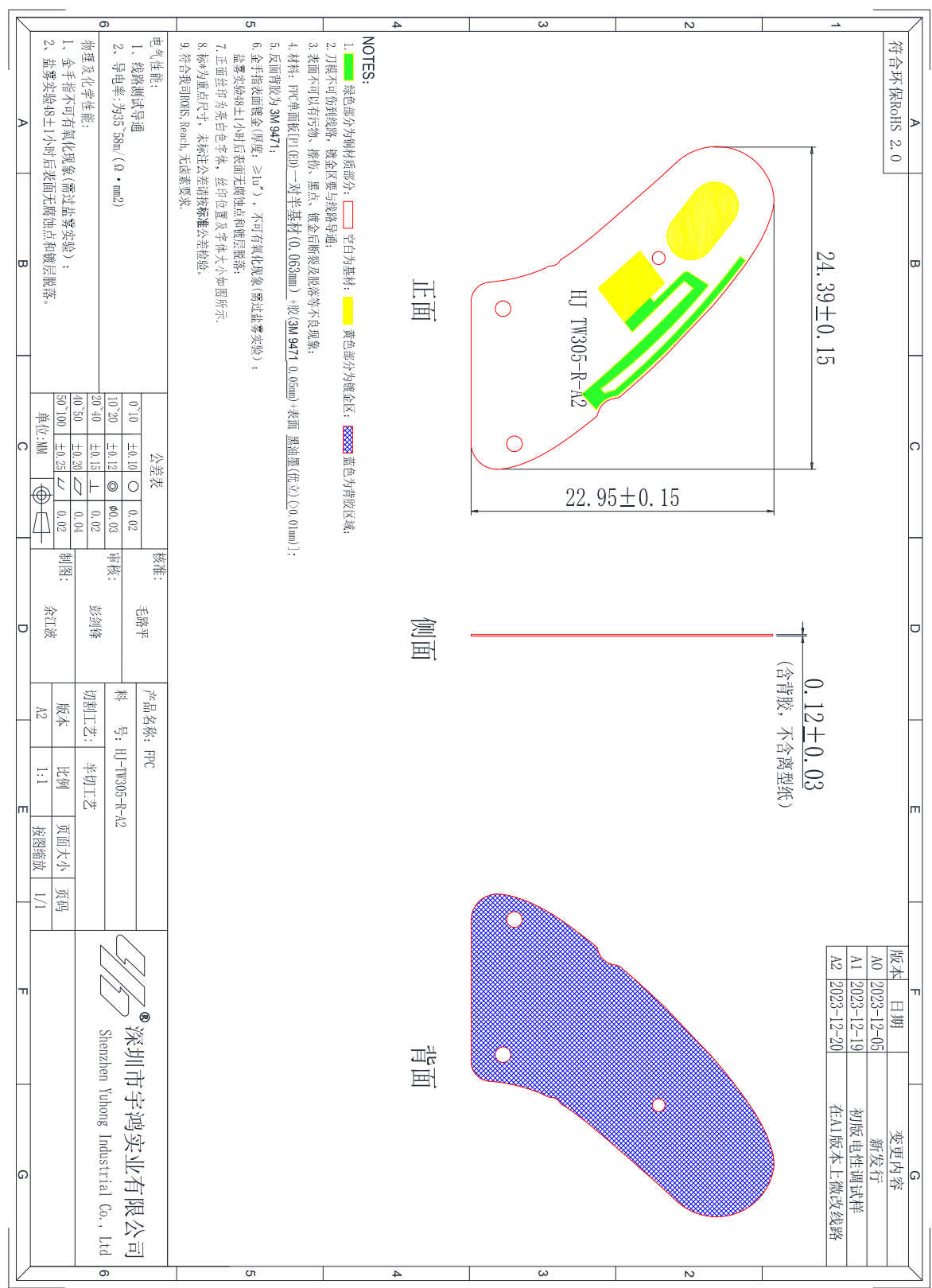
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二、 规格表 (Specification Table) :

主要技术指标		Main technical specifications	
频率范围 (MHZ)	2400~2480	Frequency Range (MHZ)	2400~2480
特性阻抗(Ω)	50	Impedance(Ω)	50
输出电压 驻波比	≤ 2.0	VSWR	≤ 2.0
极化方式	线极化	Polarization	Linear polarization
方向性	全向性	Radiation	Omni-directional
连接方式	顶针/弹片	Connector Type	Thimble/shrapnel
物理性能		Physical Properties	
天线本体材料	FPCB	Antenna cover	FPCB
工作温度	-20℃~+70℃	Operating Temp	-20℃~+70℃
保存温度	-20℃~+60℃	Storage Temp	-20℃~+60℃



三、成品图（Product drawing）：





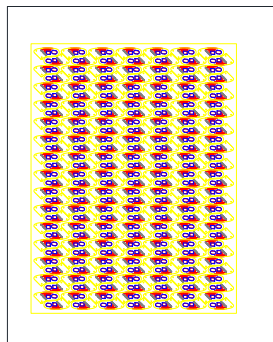
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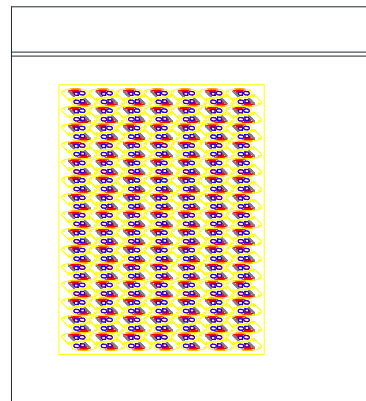
四、包装规范（Packaging specifications）：

material code:		product name:	FPC antenna
Product specification	HJ-TW305-R-A2FPC antenna	packaging material	Sealing bags and cartons
Number of packages:	5000PCS/ bag	manner of packing:	5000pcs/ pack, a box of 1-16 packs
Packing quantity:	80000PCS		

4.1 pouch pack:

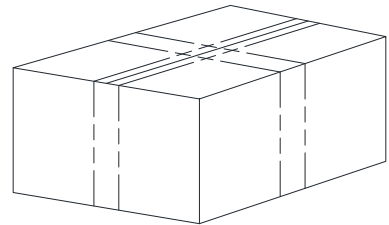
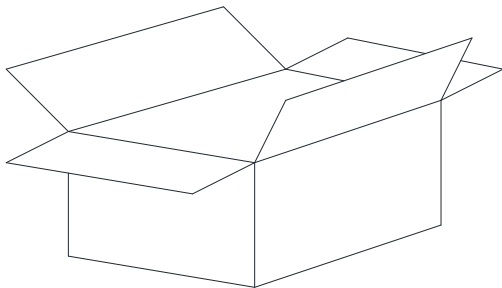


FPC antenna (full plate half cut shipment): 250*328



PE bag 5000PCS antenna

4.2 Large package:



One box of 1-16 bags (5000-80000pcs antenna)

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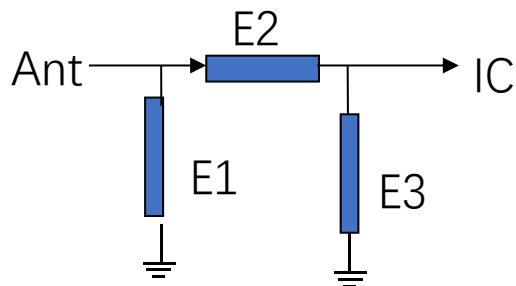


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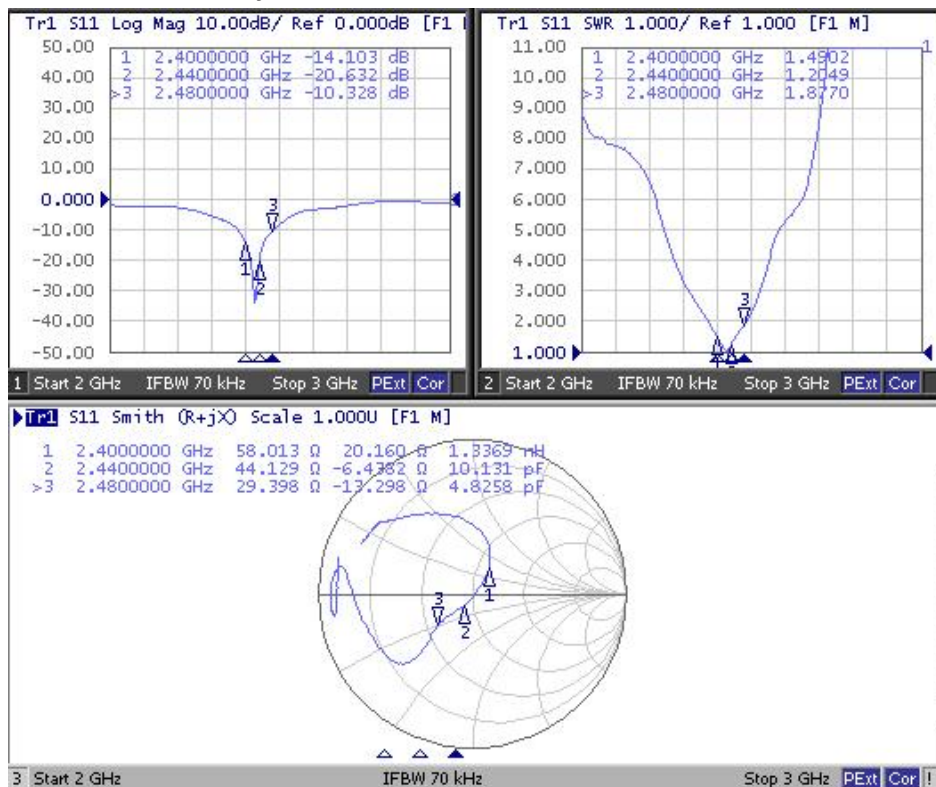
五、测试报告 (Test report) :

5.1 Matching circuit diagram:



Element	Value
E1	2.7PF
E2	OR
E3	N/A

5.2 Network analyzer test report:



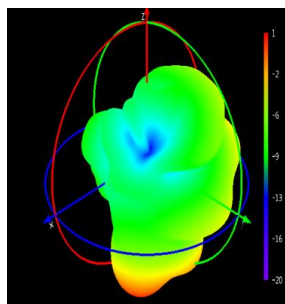


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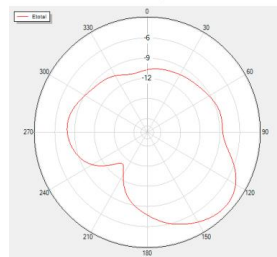
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5.3 dark room 2D、3DRaditation Pattern & gain:

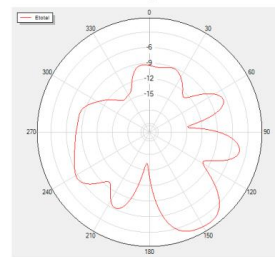
Freq[MHz]	Gain(dBi)	Efficiency(%)
2400	-1.8	25.7
2410	-1.3	26.9
2420	-0.7	27.1
2430	-0.2	27.3
2440	-0.3	26.6
2450	-0.5	25.6
2460	-0.3	25.1
2470	0.0	25.0
2480	-1.7	25.4



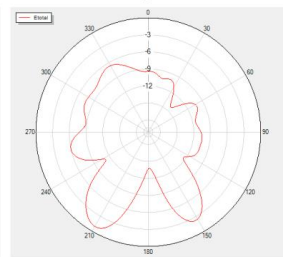
Theta=90 Freq=2440MHz



Phi=90 Freq=2440MHz



Phi=0 Freq=2440MHz



5.4 OTA data:

R	channel	TRP (dbm)	TIS (dbm)
free space	0	0.62	-85.54
	39	0.95	-87.16
	78	1.18	-86.55
R	channel	TRP (dbm)	TIS (dbm)
Second generation head mold	0	-5.62	-80.51
	39	-4.59	-82.52
	78	-4.14	-81.17



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八、天线实物图 (Antenna diagram)

