



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.,

CUSTOMER NAME:

ltd

客户料号

CUSTOMER P/N:

产品料号

PRODUCT

P/N:

HJ-TW305-L-A2

产品名称

PRODUCT

NAME:

FPC antenna

规格描述:

Description

BT2400-FPCB Built-in Bluetooth headset antenna (HJ-TW305-L-A2)

版本

REV:

A0

出厂签章

SIGN	核准 APPROVED BY	审核 CHECKED BY	制作 DRAMN

客户签章

SIGN	品质 QE	开发 R&D	工程 PE



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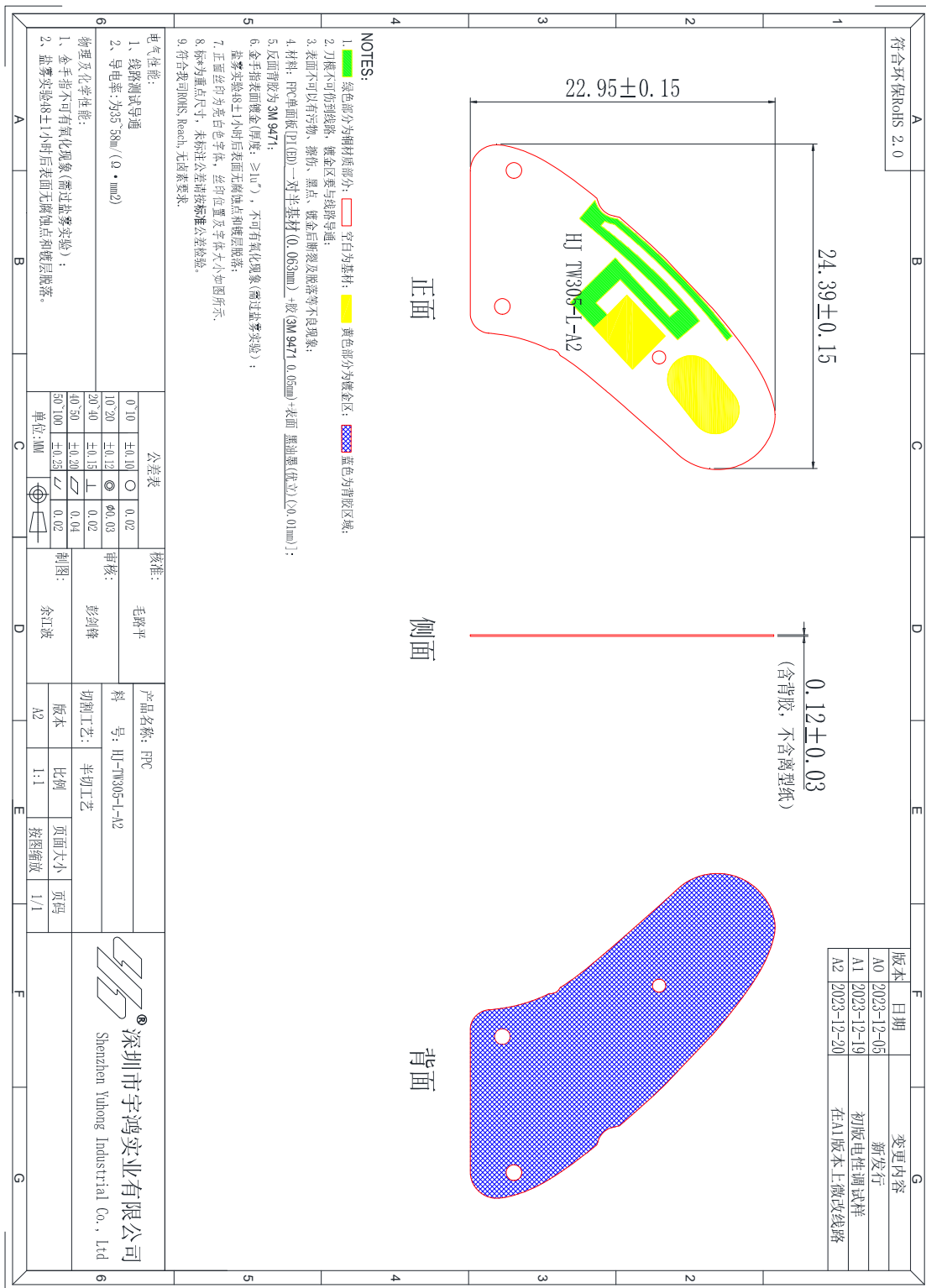
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一、规格表 (Specification Table) :

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( $\Omega$ )	50	Impedance( $\Omega$ )	50
输出电压 驻波比	$\leq 2.0$	VSWR	$\leq 2.0$
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 $^{\circ}$ C~+70 $^{\circ}$ C	Operating Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C
保存温度	-20 $^{\circ}$ C~+60 $^{\circ}$ C	Storage Temp	-20 $^{\circ}$ C~+60 $^{\circ}$ C



### 二、成品图 (Product drawing) :





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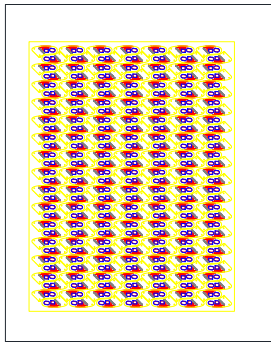
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### 三、包装规范 (Packaging specifications) :

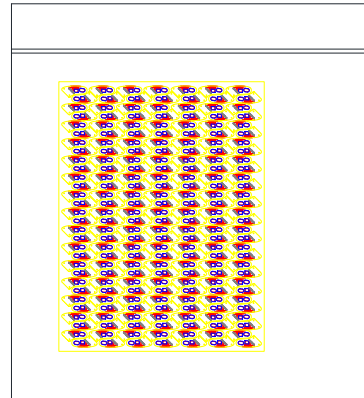
material code:		product name:	FPC antenna
Product specification:	HJ-TW305-L-A2	FPC antenna	Sealing bags and cartons
Number of packages	5000PCS/bag	manner of packing:	5000pcs/ bag, a box of 1-16 packs.
Packing	80000PCS		

quantity:

#### 4.1 pouch pack:

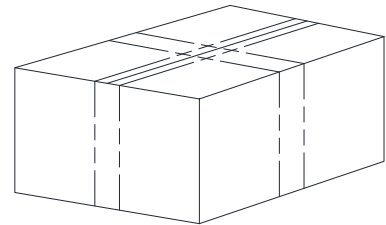
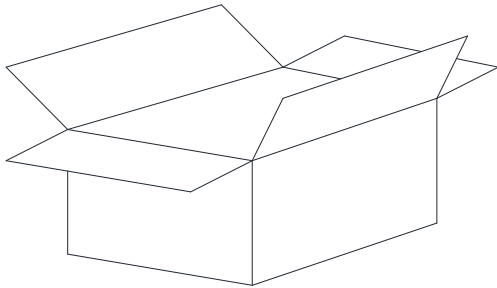


FPC antenna (full plate half cut shipment): 250\*328



PE bag 5000PCS antenna

#### 4.2 Large package:



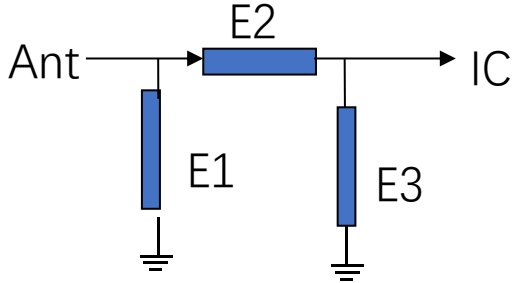
One box of 1-16 bags (5000-80000pcs antenna)

#### 4.3 备注:



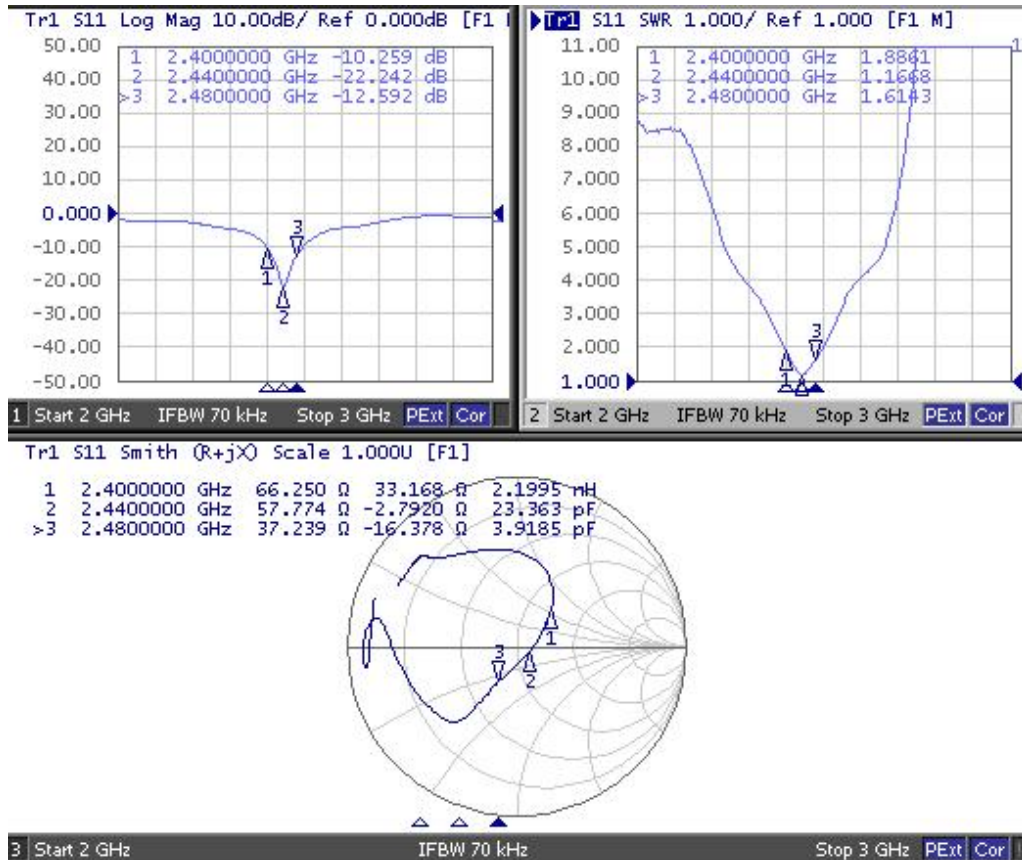
四、测试报告 (Test report) :

4.1 Matching circuit diagram :



Element	Value
E1	2.7PF
E2	OR
E3	N/A

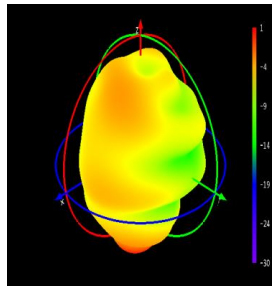
4.2 Network analyzer test report:



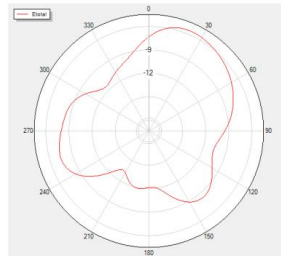


4.3 darkroom 2D、3DRaditation Pattern & gain:

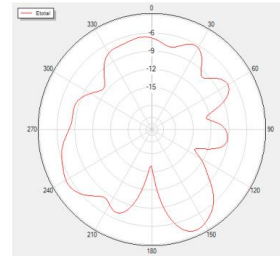
Freq[MHz]	Gain(dBi)	Efficiency(%)
2400	-1.2	25.6
2410	-1.5	26.4
2420	-1.1	27.6
2430	-1.6	26.1
2440	-0.9	25.2
2450	-0.7	26.2
2460	-1.2	26.6
2470	-1.3	25.4
2480	-1.1	24.4



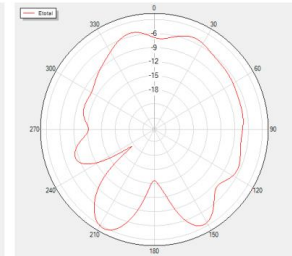
Theta=90 Freq=2440MHz



Phi=90 Freq=2440MHz



Phi=0 Freq=2440MHz



5.4 OTA data

L	channel	TRP (dbm)	TIS (dbm)
free space	0	0.68	-84.62
	39	0.55	-86.07
	78	1.20	-86.59
L	channel	TRP (dbm)	TIS (dbm)
Second generation head mold	0	-5.15	-79.45
	39	-4.85	-82.89
	78	-4.48	-81.52



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五、天线实物图 (Antenna diagram)

