

SPECIFICATION FOR APPROVAL

CUSTOMER	深圳市智影创展科技有限公司		
CS P/N			
PART NAME	FPC Antenna L32.2*W11.7mm 2.4~2.5GHz&5.15~5.85GHz white 1.13 line long150MM IPEX ROHS		
FREQUENCY	2.4~2.5GHz&5.15~5.85GHz		
Model No.	ANT-F2400X-15001		
RTANT NO.	K220-10025-A		
DATE	2019.08.08		
	出样签章 (The sample shall be signed)		
	APPROVED BY 核准	CHECKED BY 确认	DRAWED BY 制作
	黄龙保	宋逸锋	刘云海
Remark (备注):			
客户承认签章 (The customer acknowledges the signature)			
	APPROVED BY 核准	CHECKED BY 确认	TESTED BY 检测
Sign: _____			

深圳市欧飞信科技有限公司

电话: 0755-23191990

Http://www.ofeixin.com

地址: 深圳市光明区马田街道新庄社区别墅路1号世峰大厦1505

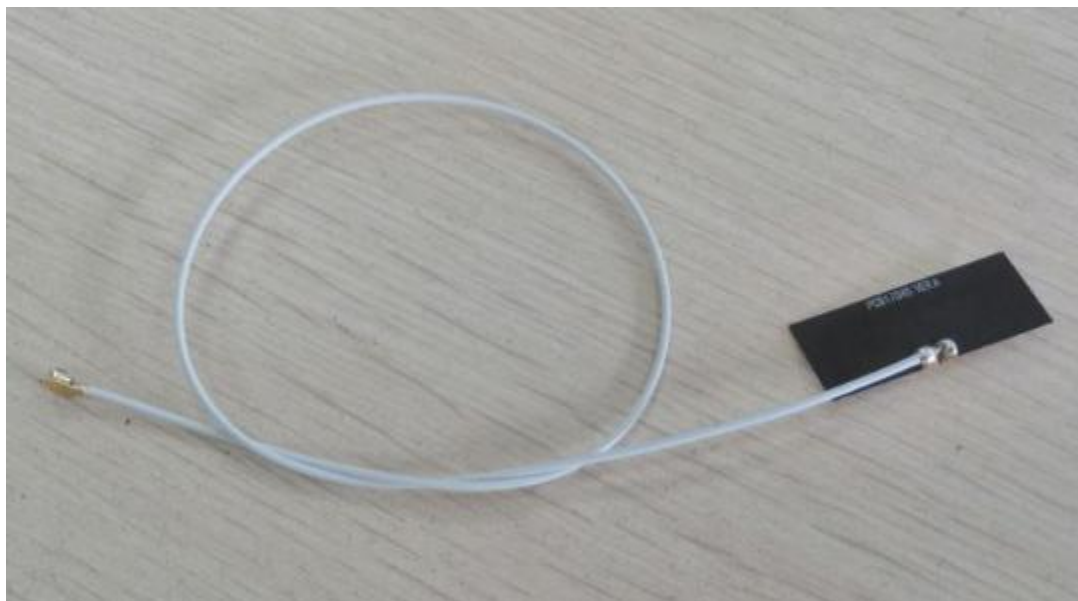
1. Contents 项目表

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The attachment	2D product drawing, packaging specification	The attachment

2. Revision history 变更履历

Revision	Date	Change the content
X0	19.08.08	New version

3. 产品实物图片Product picture



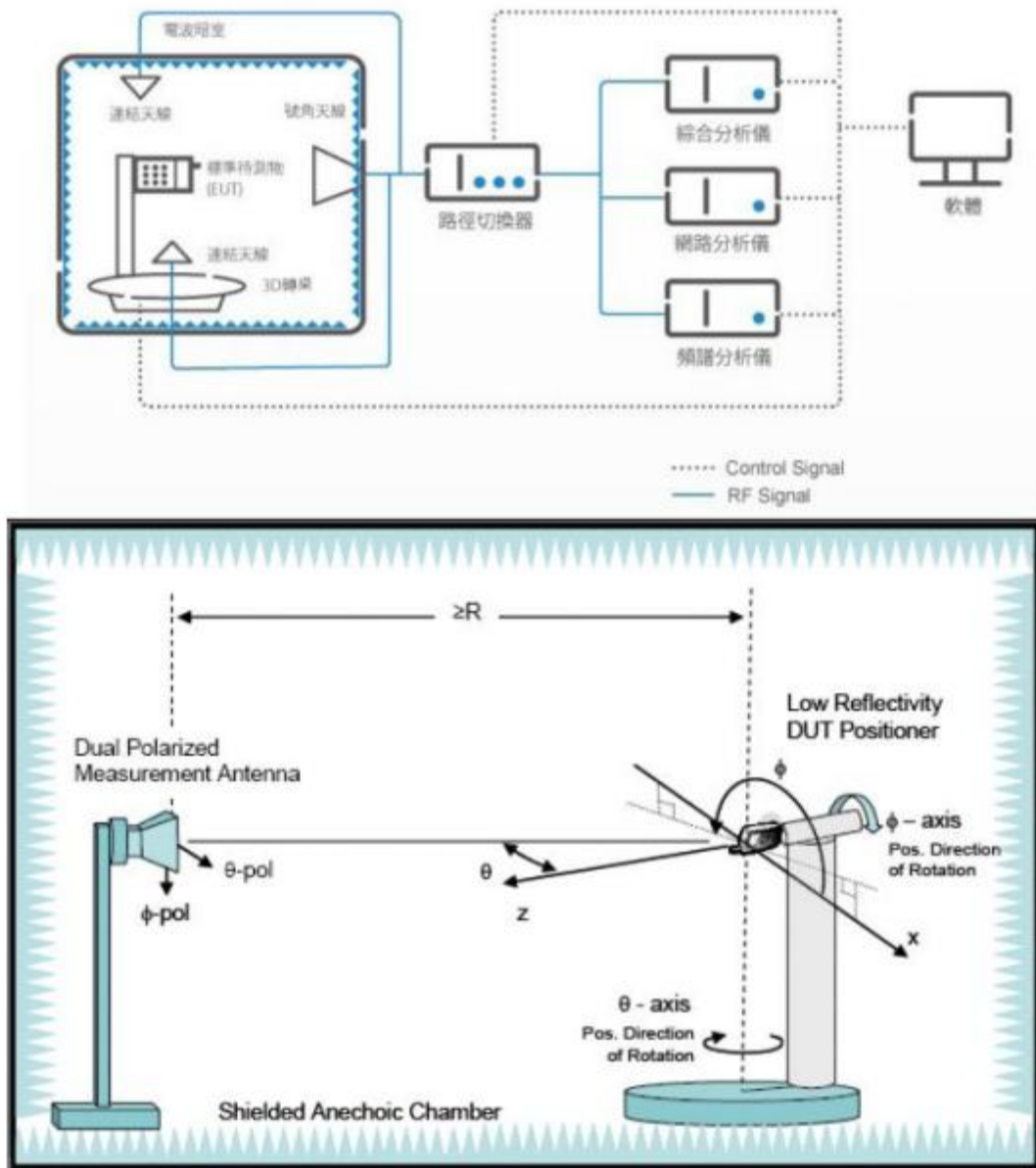
4. 规格表Specification

A. Electrical Properties	
Frequency Rang频段范围	2.4-2.5GHz&5.15-5.85GHz
Impedance特性阻抗	50 Ω Nominal
VSWR电压驻波比	2.0Max. (带机壳)
Gain(peak)增益(峰值)	2.0dBi
Efficiency效率	>40%
Out of roundness不圆度	3.0 dBi (Max.)
Radiation辐射方式	Omni-Directional/全向
Polarization极化方式	Linear Vertical/垂直
B. Physical Properties	
Connector Type连接方式	一代IPEX
Cable线材	Φ 1.13mm
Antenna Radiator天线振子体	FPC
C. Environmental	
Storage Temp存储环境范围	-10°C~+60°C
Operating Temp工作环境	-40°C~+65°C
Storage humidity存储湿度	95%
Working humidity工作湿度	5%~95%

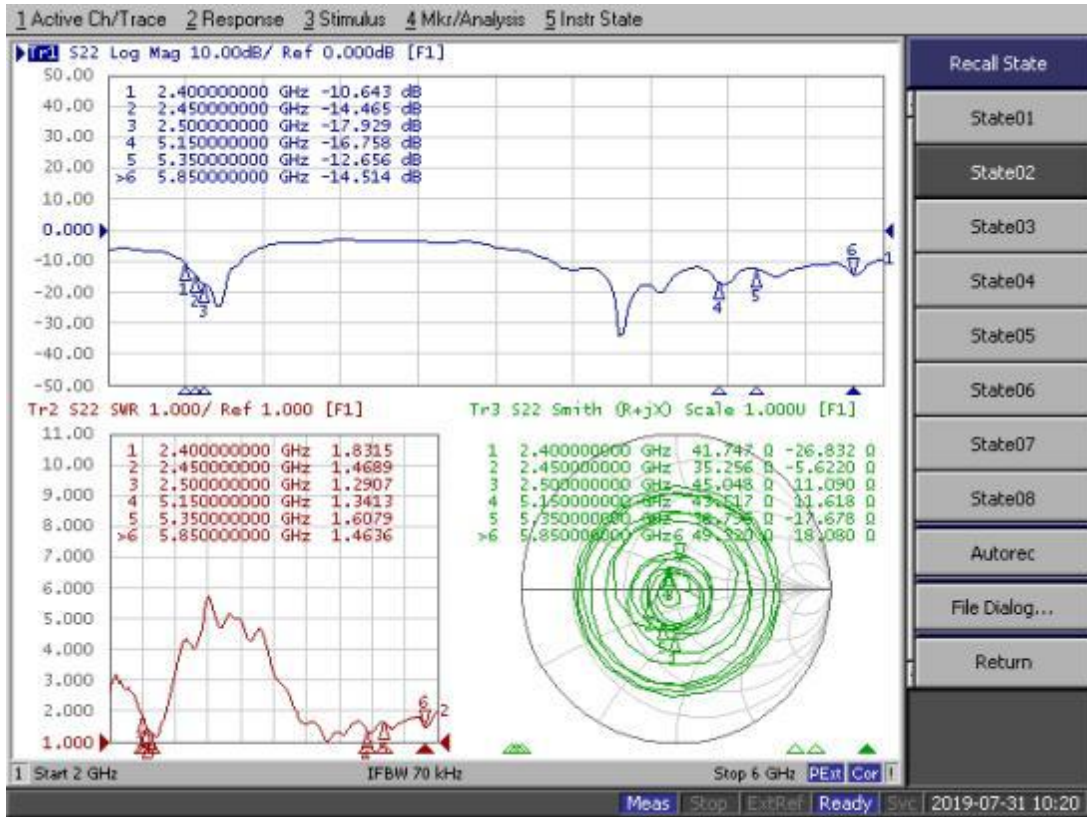
5. 电性测试报告Electrical Test Report

5.1 Test equipment

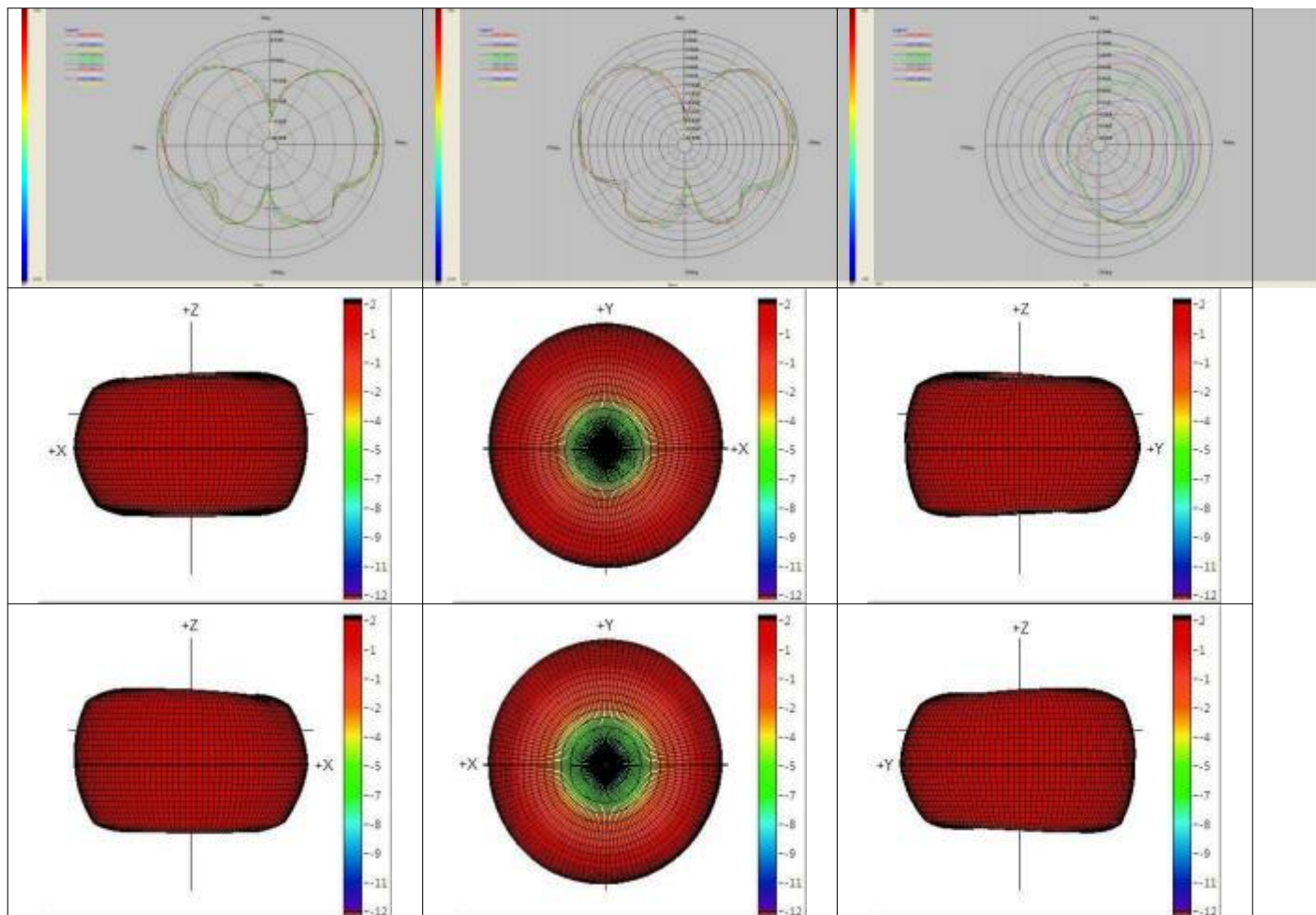
OTA 系統架構圖



5.2 网络分析仪测试报 Network Analyzer Test Report



5.3 暗室2D、3DRaditation Pattern



5.4 暗室无源测试数据 Darkroom passive test data

频率(Mhz)	2400	2410	2420	2430	2440	2450	2460	2470	2480
效率 (%)	70.54	75.31	74.92	72.6	68.52	67.09	67.62	64.99	59.18
增益 (dBi)	1.78	1.93	2.06	1.93	1.64	1.28	1.12	0.83	0.32

频率(Mhz)	5100	5200	5300	5400	5500	5600	5700	5800	5900
效率 (%)	43.57	40.18	46.56	48.55	49.81	46.99	43.95	41.88	36.64
增益 (dBi)	0.94	2.49	3.19	1.34	2.55	4.27	2.57	1.6	2.63

6. 样品检验报告 Sample inspection report

日期: 2019.08.08

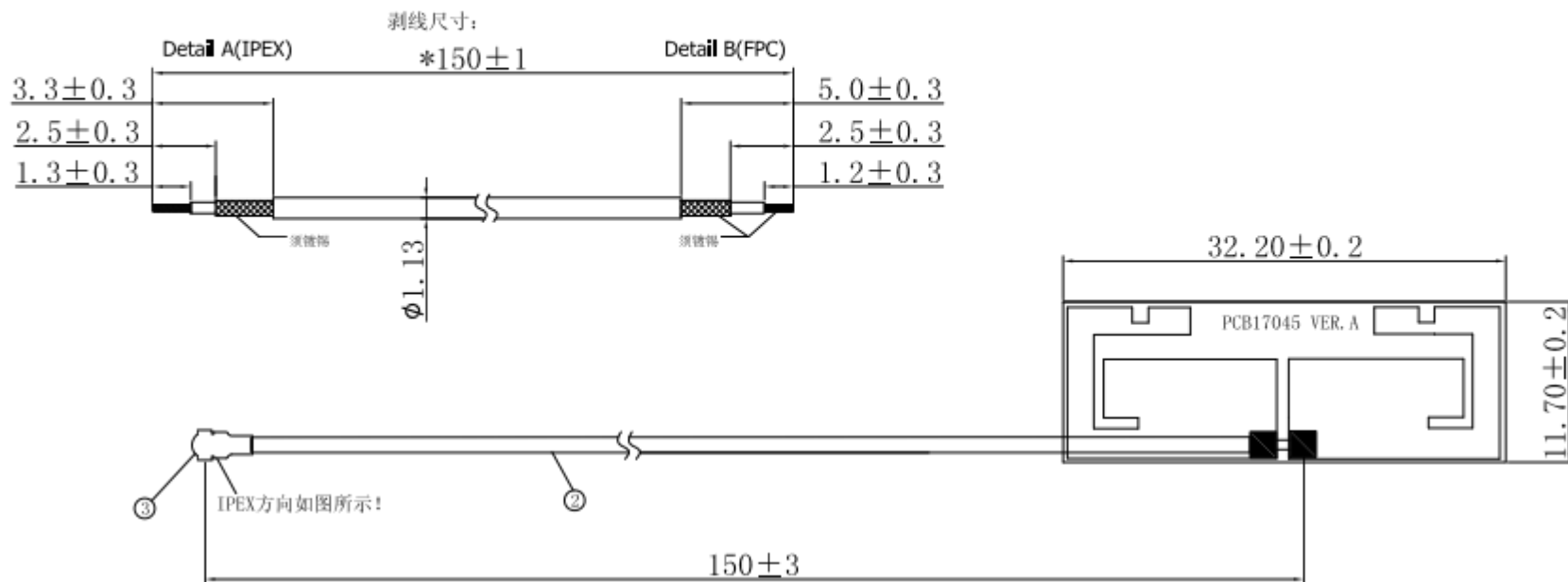
送检数量		5PCS	合格数量		5PCS			判定
检验项目		检验标准及说明	检验结果					
			No.1	No.2	No.3	No.4	No.5	
外观	线材	Φ1.13mm; 对比无色差、无脏污、无破损, 无刮伤	pass	pass	pass	pass	pass	■OK □NG
	接头	对比无色差、无脏污、无破损, 无刮伤	pass	pass	pass	pass	pass	■OK □NG
	PCB/FPC	对比无色差、无脏污、无破损, 无刮伤	pass	pass	pass	pass	pass	■OK □NG
	焊接	焊接后不能冷焊、假焊、锡尖、锡珠、漏焊	pass	pass	pass	pass	pass	■OK □NG
	浸锡	浸锡后不能有锡尖, 凸锡球, 无浸锡、变形						□OK □NG
	其他							□OK □NG
主要尺寸	1	150±5mm	150	150	150	150	150	■OK □NG
电气及功能测试	Frequency Rang	2.4-2.5GHz 5.15-5.85GHz						
	VSWR	对比	pass	pass	pass	pass	pass	■OK □NG
机械性能	Cable与IPEX组装拉力	>1.0kg	1.73	1.63	1.80	1.77	1.58	■OK □NG
备注								
最终判定	<input checked="" type="checkbox"/> 合格 <input type="checkbox"/> 不合格 <input type="checkbox"/> 条件认可							

审核: 张超超

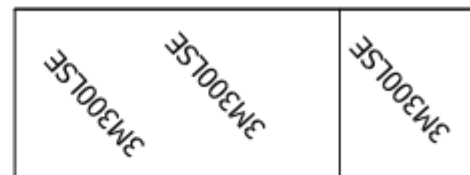
检验: 雷娟兰

RoHS

SIGN	DATE	DESCRIPTION	APPROVER
X0	19.08.01	New drawing	JOHN.LIU



NOTE:
 1. 带"*"为重点管制尺寸;
 2. 电测:
 Frequency Rang: 2.4-2.5GHz
 5.15-5.85GHz
 VSWR: 2.0MAX (带机壳)
 Gain(Peak): 2.0dBi
 3. 工作环境: -40℃~+85℃;
 4. 环保要求: RoHS 2.0;
 5. IPEX方向管制:
 100mm ± 90度;
 200mm ± 135度;
 200mm以上不管管;



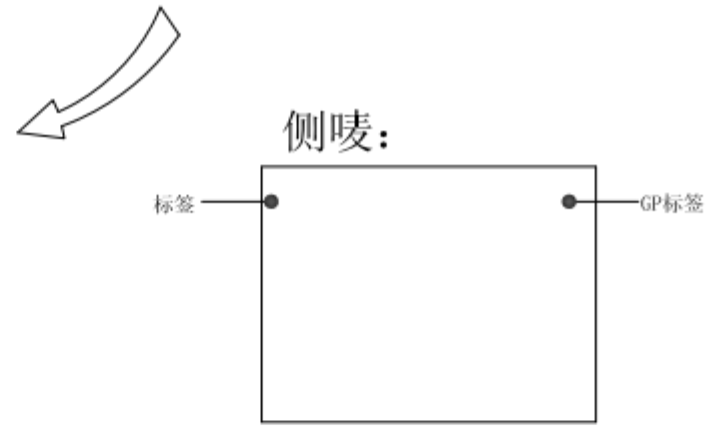
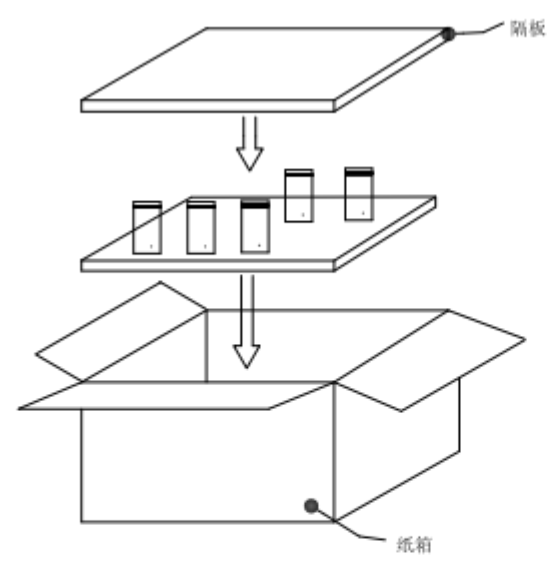
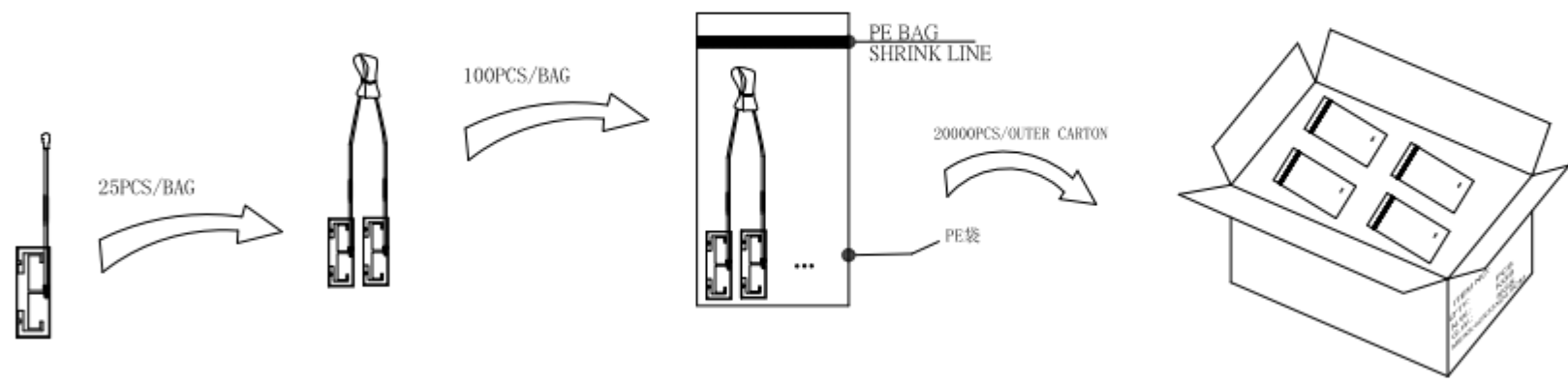
手撕位(离型纸预断)

3	Q20-160003-A	IPEX CONN#	铜	镀金	1
2	—	Φ1.13mm CABLE	镀锡铜	50欧姆 白色	1
1	Q70-020003-A	FPC	电解铜	OSP 黑色 PCB17045	1
No.	Part Number	Name	Material	Describe	Q'ty

TITLE:	内置FPC天线														
P/N:	智影创展														
CUSTOMER:															
DRAW NO.:	K220-10025-A														
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED				APPROVED											
<table border="1"> <thead> <tr> <th>一般公差</th> <th>XX</th> <th>XX</th> </tr> </thead> <tbody> <tr> <td>TOLERANCE</td> <td>±0.1</td> <td>±0.15</td> </tr> <tr> <td></td> <td>±0.2</td> <td>±0.3</td> </tr> <tr> <td></td> <td>±0.3</td> <td>±0.4</td> </tr> </tbody> </table>				一般公差	XX	XX	TOLERANCE	±0.1	±0.15		±0.2	±0.3		±0.3	±0.4
一般公差	XX	XX													
TOLERANCE	±0.1	±0.15													
	±0.2	±0.3													
	±0.3	±0.4													
SHEET: 1/1			SCALE: NONE	DRAWN											
UNIT: mm			REV: X0	JOHN 19.08.01											

RoHS

SIGN		DATE	DESCRIPTION	APPROVER
X0		19.08.01	New drawing	JOHN.LIU



TITLE:	内置FPC天线																		
P/N:	智影创展																		
CUSTOMER:																			
DRAW NO.:	K220-10025-A																		
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED				APPROVED															
<table border="1"> <tr> <td>200</td> <td>+0.1</td> <td>300</td> <td>±0.5</td> </tr> <tr> <td>20</td> <td>+0.05</td> <td></td> <td></td> </tr> <tr> <td>∅</td> <td>+0.03</td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>+0.0</td> <td></td> <td></td> </tr> </table>				200	+0.1	300	±0.5	20	+0.05			∅	+0.03			X	+0.0		
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一般公差 TOLERANCE			SHEET: 1/1	SCALE: NONE															
			UNIT: mm	REV: X0															
			DRAWN	JOHN 19.08.01															