

樣品承認書 APPROVAL SHEET

料號 Zylux Part Number	1029-0000129
品名/規格 Part Name	WIFI T型天線IA.0119.LB.3FI
承認日期 Approval Date	

承認狀況(Zylux Approval Condition)

限量承認 Conditional Approval		正式承認 Formal Approval	
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料件之所有組成物質，必須遵守有害物質要求(如符合請勾選✓)
All components of the material must comply with the hazardous material requirements (comply please tick ✓)

RoHS2.0	✓	REACH	✓
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備註:以上零部件必須符合的基本法規,必須勾選
Note: Compliance with the above regulations is fundamental and mandatory, please must tick

TSCA		PFAS		PRO65		CARB2	
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備註:以上是銷往美國產品必須符合的基本法規,其中Pro65只針對消費者在使用時,可以接觸到零部件,如塑膠外殼、遙控器,外部線材等; CARB2只針對木製品,依據材料種類和使用情況進行勾選
Note: Compliance with the above regulations is mandatory for products import to United States. Please select in accordance with material type and usage. For Pro 65 regulation, only applicable for the parts accessible by end users, such as the enclosure, remote control and external cable..., etc.; CARB2 only applicable for wooden parts

無鹵(HALOGEN FREE)		Zylux QMI-P40-01	✓	Samsung OQA-2049	
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備註:ZYLUX QMI-P40-01是ZYLUX有害物質管控標準,必須勾選; Samsung OQA-2049是三星客戶產品有害物質管控標準,如是三星產品,必須勾選; 無鹵要求,根據客戶要求勾選
Note: "Zylux QMI-P40-01" denotes Zylux Standard for restricted substance control, compliance with Zylux Standard is mandatory; "Samsung OQA-2049" denotes Samsung Standard for restricted substance control, compliance with Samsung Standard is mandatory for parts supplied for Samsung products; "Halogen free" is subject to the request by customers

供應商(SUPPLIER)

製作 REPORTER	核對 CHECK	批准 APPROVAL
陸進添	彭銀領	理霞馬

朝陽(ZYLUX)

製作 REPORTER	核對 QC CHECK	批准 APPROVAL
ZYLUX RD/EE 劉建章	ZYLUX QC/CHECK 李秀林	ZYLUX RD/EE Ivan Ng

供應商信息(Supplier Information)

供應商全稱 Full name	佳德无线科技(深圳)有限公司
地址 Address	深圳市福田区泰然六路苍松大厦北座601-065
電話 TEL	0755-33353180

變更履歷表

Change the resume

料号(Part Number): 1029-0000129

品名 (Name): WIFI T 型天線

[illegible]

IA-0119- LB-3FI WiFi antenna Specification

1. Explanation of part number :

IA - 0119 - LB - 3 - FI
(1) (2) (3) (4) (5)

(1) Product Type : Wireless Antenna

(2) Suffix: 0119

(3) Frequency :2.4G& 5.8GHZ

(4) Coaxial Cable Type: 3

(5) Details: FPC+IPEX

2. Storage Condition:

Temperature -40 to +85°C
Humidity 65±20 % RH

3. Operating Condition:

Temperature -40 to +85°C
Humidity 65±20 % RH

4. Electrical Specification :

Those specifications were specially defined for customer's model, and all characteristics were measured under the model's handset testing jig .

4-1. Frequency Band:

Frequency Band	MHz
WIFI	2400-2500&5100-5900

UNLESS OTHER SPECIFIED TOLERANCES ON : X=± X.X=± X.XX=± ANGLES=± HOLEDIA=±		 东莞市同讯电子科技有限公司	
SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KINGRF TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY : LIXIN	CHECKED BY : ZHOULUCHAO		
DESIGNED BY: YANG	APPROVED BY : JIM		
TITLE : IA-0119- LB-3FI WiFi antenna Specification		DOCUMENT NO.	PAGE REV.

4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

4-4. VSWR

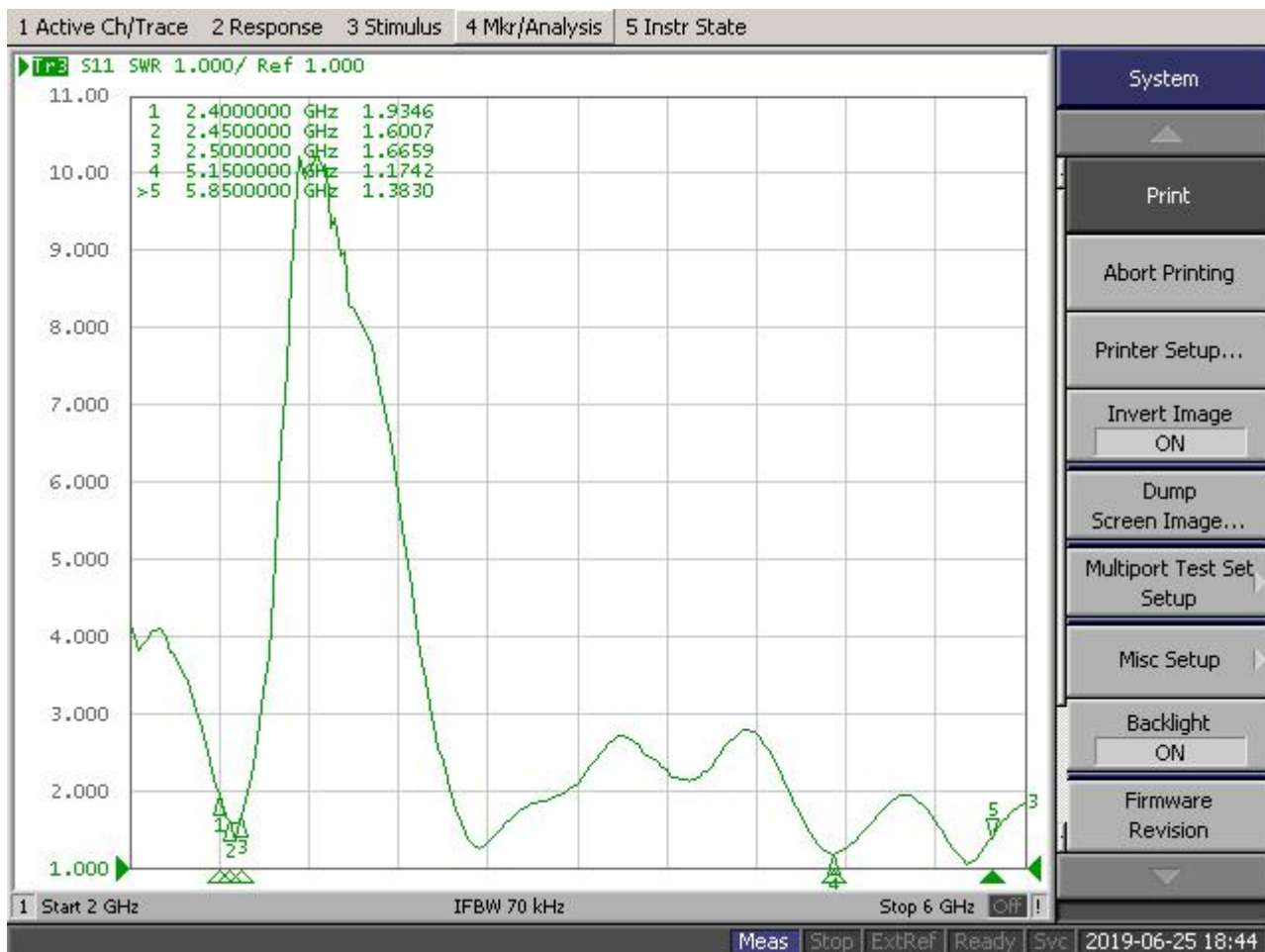
4-4.1 Measuring Method

1.A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR

2.Keeping this jig away from metal at least 20cm

4-4.2 Measurement frequency points and VSWR value

Frequency (Unit MHz)	2400	2450	2500	5100	5900
VSWR	1.93	1.60	1.66	1.17	1.38



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY : LIXIN CHECKED BY : ZHOULUCHAO

DESIGNED BY: YANG APPROVED BY : JIM

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东莞市同讯电子科技有限公司

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DOCUMENT
NO.

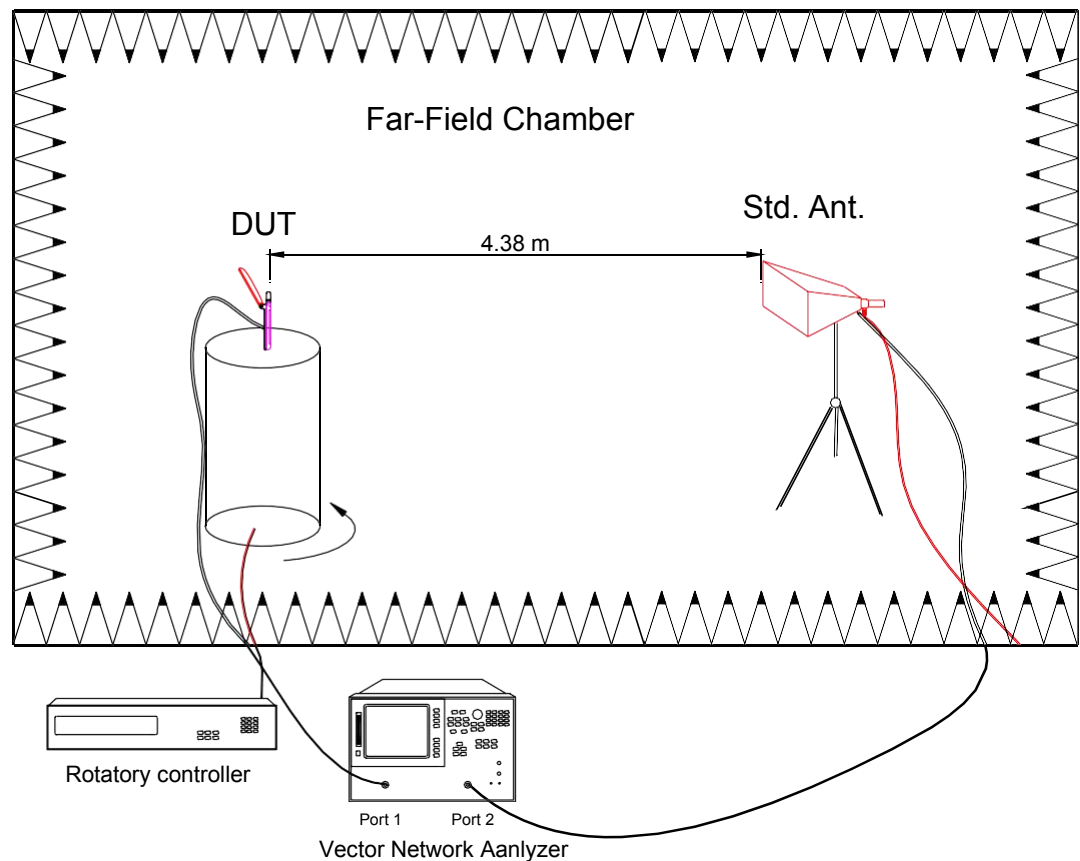
PAGE REV.
P0

4-5. Efficiency and Gain

4-5.1 Measure method

- 1. Using a low loss coaxial cable to link a standard handset jig
- 2. Fixed this handset jig on chamber's rotator plane
- 3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
- 4. Using another standard gain horn antenna to calibrated those data

4-5.2 Chamber definition



- 1. An anechoic chamber (5mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
- 2. The quite room region is 40cmx40cmx40cm at the center of rotator
- 3. The distance between DUT and standard antenna is 4.38 m
- 4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

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4-5.3 Efficiency and Gain

Antenna gain is marked (dBi) and is based on STANDARD HORN antenna.

The data shows Peak Gain and Average Gain.

Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)
2400	50.37	-3.15	1.73
2410	49.5	-3.52	1.07
2420	55.93	-2.52	2.26
2430	60.3	-2.2	2.63
2440	66.14	-1.8	3.31
2450	54.49	-2.64	2.65
2460	64.05	-1.93	3.32
2470	59.47	-2.26	3.28
2480	69.4	-1.59	3.92
2490	64.88	-1.88	3.85
2500	67.65	-1.7	4.3

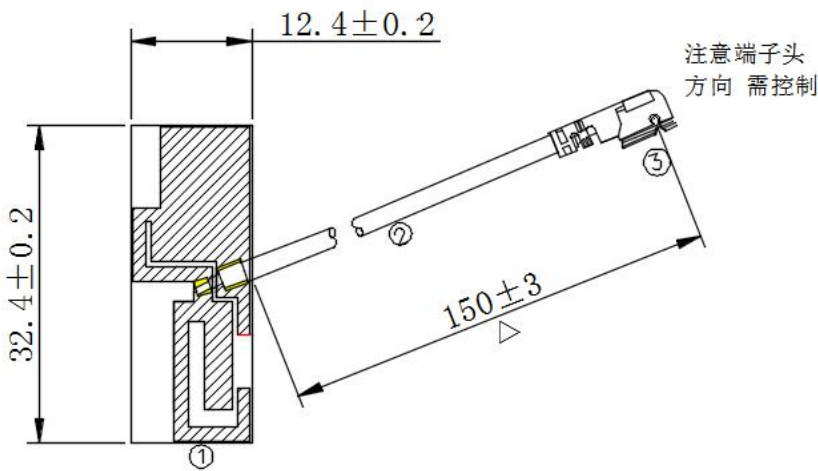
Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)
5150	63.26	-1.35	5.87
5200	52.23	-2.06	4.94
5250	55.45	-1.84	5.41
5300	55.42	-1.84	5.15
5350	58.72	-1.63	5.45
5400	64.47	-1.91	5.03
5450	62.22	-1.41	5.91
5500	60.07	-1.54	5.65
5550	63.51	-1.97	5.31
5600	51.86	-2.09	5.3
5650	66.24	-1.18	6.29
5700	68.98	-1.02	6.6
5750	59.51	-1.58	6.08
5800	66.24	-1.18	6.73
5850	65.78	-1.2	6.84

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5. Mechanical Specification:

5-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing



2

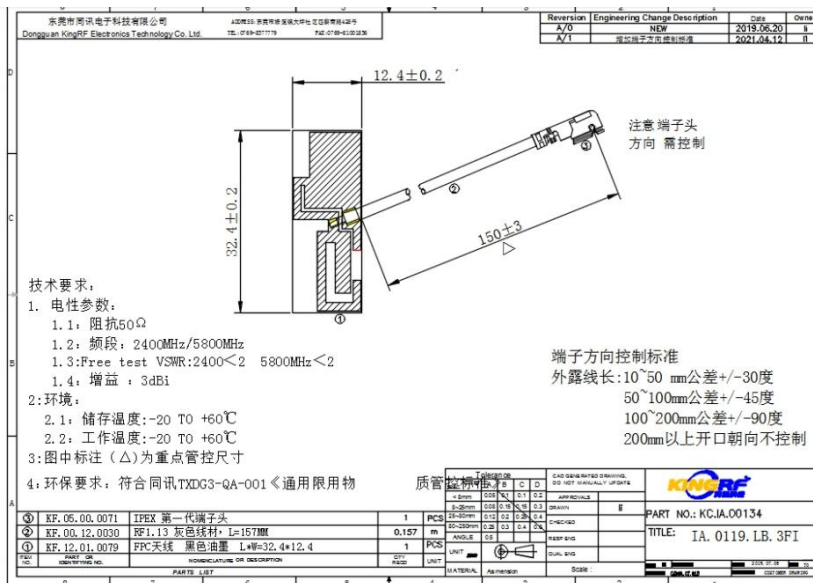
Product Picture:



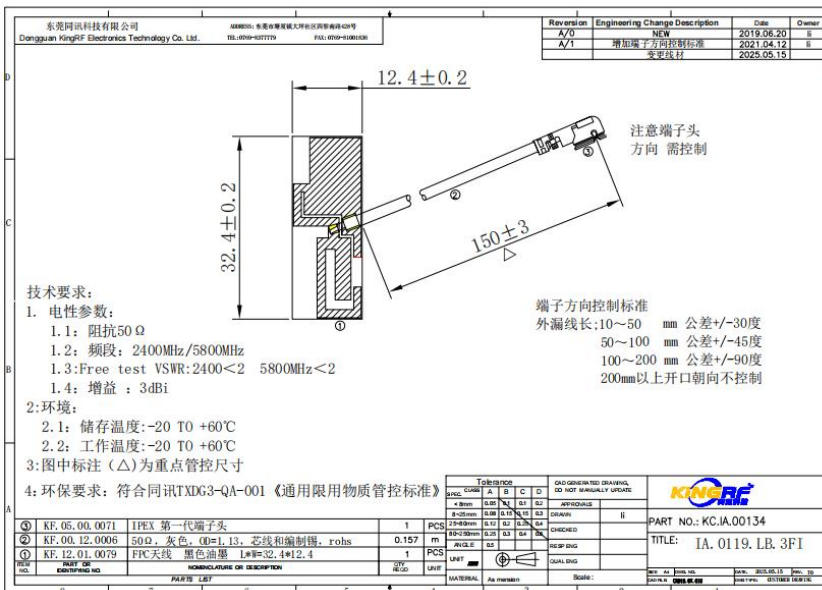
UNLESS OTHER SPECIFIED TOLERANCES ON : X=± X.X=± X.XX=± ANGLES=± HOLEDIA=±		 东莞市同讯电子科技有限公司	
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TITLE : IA-0119- LB-3FI WiFi antenna Specification		DOCUMENT NO.	PAGE REV. P0

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing



变更前





东莞同讯科技有限公司

4 M 变更申请单 (ECR)

ECR 编号: 2025040201

申请部门: 业务部	
料号: IA.0119.LB.3FI (KC.IA.00134)	申请日期: 2025/4/2
客户: 佳德无限科技(深圳)有限公司	
申请人: 杨小兵	主管审核: 王超
变更前填写下列变更计划	
变更内容	RF1.13 浅灰色线更新为 RF1.13 灰色线
变更理由	☐ 设计变更 ☐ 质量改善 ☐ 效率改善 ☐ 客户要求 ☐ 法令 ☒ 其他
变更类型	☐ 制造方法和条件 ☐ 零件变更 ☐ 机器设备 ☐ 制造厂地 ☐ 包装规格 ☒ BOM 变更 ☐ 成品图变更 ☐ 更 ☐ 裁线图变更 ☐ 样品变更 ☐ 其他变更
变更项目分类	☐ 自我管理变更 ☐ 客户通知的变更 ☒ 向客户申请的变更
化学物质变更确认	☒ 无变更
变更资料: ☐ 有 ☐ 无	

变更内容希望实施时期: 2025 年 4 月 11 日起

变更内容细节:
变更前: RF1.13
变更后: RF1.13变更资料: ☐ 有 ☐ 无添附样品: ☒ 有 ☐ 无

技术部填写栏:

验证结果

合格 ☒ 不合格

品质部填写栏:

验证结果

合格 ☒ 不合格

验证结果

合格 ☒ 不合格

验证结果

合格 ☒ 不合格

验证结果

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验证结果

合格 ☒ 不合格

验证结果

合格 ☒ 不合格

验证结果

合格 ☒ 不合格

PMC 填写栏:

同意, 杨彬. 4.2

经办人:



KINGRF TECHNOLOGY CO., LTD.

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

SCALE:

UNIT: mm

DRAWN BY: LI

CHECKED BY: YS

DESIGNED BY: De wen

APPROVED BY: YS

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TITLE: IA.0119.LB.3FI Antenna Specification

SPEC REV.

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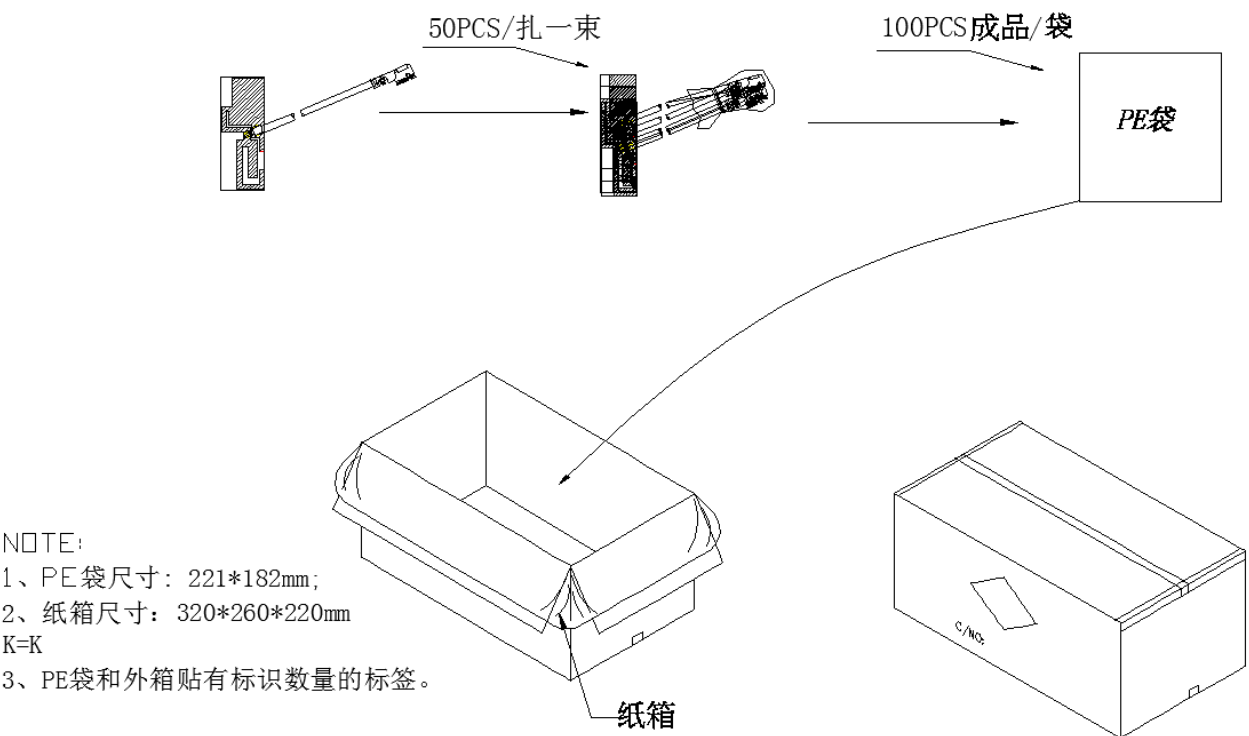
3-3.Product Image:



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SCALE:	UNIT: mm		
DRAWN BY: LI	CHECKED BY: YS	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KINGRF TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DESIGNED BY: De wen	APPROVED BY: YS		
TITLE: IA.0119.LB.3FI Antenna Specification			SPEC REV.
			P0

1029-0000129 包装规格:

- 1. 将产品 50pcs 扎为一束，珍珠泡棉包裹线材;
- 2. 将箱内放入一张隔板，再将扎好的两束天线放入一个 PE 袋，装入后将 PE 袋内的空气压出合上封口。
- 3. 将 60 袋天线按如下图顺序放入一包装内箱，共 60x100=6000pcs，放上填充物及天地盖包好;
- 4. PE 袋和外箱贴有表示数量的标签。



UNLESS OTHER SPECIFIED TOLERANCES ON: X= X.X= X.XX= ANGLES=± HOLEDIA=±			
SCALE:	UNIT: mm		
DRAWN BY:	CHECKED BY:		
DESIGNED BY:	APPROVED BY:		
TITLE: 包装规格		DOCUMENT NO.	SPEC REV. A0

朝陽電子(深圳)有限公司/Zhaoyang Elec.(Shen Zhen)Co.,Ltd.

原材(物)料檢驗表/Material Inspect Sheet

品名/Part Name		IA. 0119. LB. 3FI		料號/Part NO.		1029-0000129		*第 / 次試模/T__		*模號/Mold NO.		/		*生產設備/Machine		/					
規格/Description		FPC+1.13灰色线+IPEX,L=150mm										溫/濕度/Temperature/Humidity			零下20℃~60℃						
廠商 Vendor				*模貝廠商 Mold Maker		/		檢驗日期 Check Date		2019.08.01		*模穴號 Cav.NO.		/		重量 Weight		生產產地 Produce place		东莞	
檢查項目/Ins.Item		A	B	C									单重/g								
規格/Specification		150	32.4	12. 4									0.68								
公差/Tolerance		±3.0	±0.2	±0.2									±5%								
測定值 Data	1	150.5	32.35	12.4									0.68								
	2	150.4	32.35	12.4									0.68								
	3	150.4	32.38	12.5									0.68								
	4	150.7	32.4	12.5									0.68								
	5	150.3	32.36	12.5									0.68								
	6	150.6	32.35	12.4									0.68								
	7	150.5	32.35	12.6									0.68								
	8	150.4	32.34	12.5									0.68								
	9	150.4	32.36	12.5									0.68								
	10	15.05	32.35	12.4									0.68								
判定欄/Judgement		OK	OK	OK									OK								
外觀記錄/Appearance Record		OK							☒ 合格/OK ☐ 不合格/NG					主管/Approval		檢驗者/Inspector					
									備注 Remark												
裝配記錄/Assembly Record		OK																			

*__僅對屬於本廠模具或有指定時方填寫/*__Only for Zylux'mold need

(QMR-P14-09.B)

试验 . 实验报告书

编号: E16071390002

开始日期: 2019年8月1日16时30分
结束日期: 2019年8月2日16时30分

重要度
B

标 题:耐盐雾试验
件号(机种名): WIFI天线

核 准	审 核	测试者
李德文	李欣	钟爱浓

试验品区分	研试.\量试. 量产. 定期. 问题. 外注制. 其它	制造日, Lot No
-------	-----------------------------	-------------

目的
产品经试验后是否出现生锈、服饰等现象.

试验标准及技术依据
依GB/T 2423.17要求。

试验地点 / 环境条件
地点:同讯实验室 温度: 35℃ 湿度: 85%

本次测试所使用标准器具		
设备名称	型号 / 规格	设备编号
盐雾试验机	MHY-60	SCT-XZ383

样品状况
样品数量:5PCS. (1#~5#) 试验前样品性能正常, 外观良好。

试验方法
样品放于35℃+/-2℃, 5%浓度的盐雾试验箱中, 连续喷雾24H。试验结束后将样品用清水冲洗干净, 立即用吹风机吹干进行外观检测和RF性能测试。

通过准则	天线外露金属无氧化现象, 电性能测试合格。
------	-----------------------

试验结果

产品经试验后外观无腐蚀，性能正常

编号		1#	2#	3#	4#	5#
项目/规格						
高压绝缘测试	DC 300V AC 200V 50MΩ	PASS	PASS	PASS	PASS	PASS
VSWR	<2 @2.4GHZ	ok	ok	ok	ok	ok

结论	判 定	PASS
产品经试验符合要求.		

备注:
此结果只与受检定的项目有关.

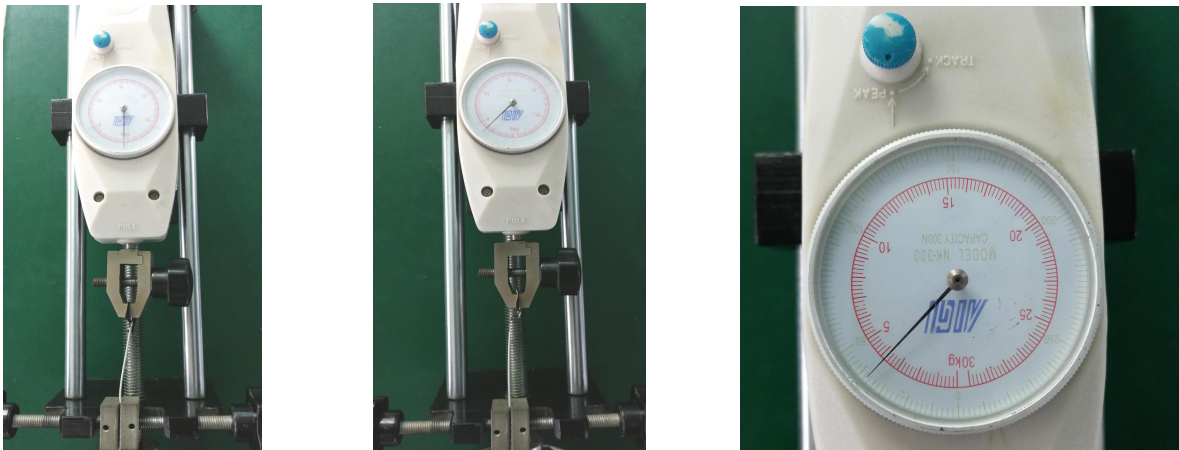
机械性能:

项目	标准	设备与方法	测试结果
PAD 与同轴线	>1.0kg	分别用拉力计的夹住 PAD 与同轴线，外观完好，电气性能 OK	3.8Kg
IPEX 与同轴线	>1.5kg	分别用拉力计的夹住 IPEX 与电缆线，外观完好，电气性能 OK	2Kg

1. IPEX 拉力测试:



2. PAD 拉力测试:





朝陽電子(深圳) 有限公司

成份清單

一 供應商基本信息										
供應商名稱	东莞市同讯电子科技有限公司				填寫部門	ME				
填寫人員	潘火煥				填寫日期	2019/7/24				
公司電話	+86 769 81001626				公司傳真					
E-MALL	yuping_li@kingrf.com									
二 料件成份信息表										
料號	物料名稱	產品重量(g)	Material Name	material	MAKER	Wt(%)	務注			
1029-0000129	Antenna	0.68g	FPC	基材	蔡伦格蒂	16				
				背胶	TESA	6				
				阻焊油墨	优立	10				
				OSP	衡杰	6				
			CABLE	FEP	DAIKIN	9				
				色母	colorant chroma	6				
				镀锡铜线	正导	16				
				镀银铜线	恒丰	17				
			CONNECTOR	PLASTICPOLY	PLASTICS	8				
				C5210R	SEIKO	3				
				C5191R	SEIKO	2				
				Plating	SEIKO	1				
			三 聲明							
			我公司保证上述数据真实有效，如果发生变更会将变更后数据及时通知贵公司。 I guarantees that the information provided is true and accurate. If the data will be changed, We will inform Huaqin for the Huaqin's							
供应商 (法人或授权人) 签字、盖章、签署时间Supplier (the legal representative or authorized officer) :										
Signed by :			Seal :			Date : 2019-7-17				

CERTIFICATE OF COMPLIANCE

Certificate Number 20161123-E349435
Report Reference E349435-20161118
Issue Date 2016-NOVEMBER-23

Issued to: JIANGYIN KAIBO COMMUNICATION
TECHNOLOGY CO LTD
391 MEIYUAN ST
CHENGJIANG TOWN
JIANGYIN JIANGSU 214400 CHINA

**This is to certify that
representative samples of** COMPONENT - APPLIANCE WIRING MATERIAL
SINGLE-CONDUCTOR THERMOSETTING-INSULATED
WIRE: 3302,3385,3386,3619

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 758, for Appliance Wiring Material.

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog
number, model number or other product designation as specified under "Marking" for the particular
Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products
that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark:
, may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is
required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual
recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance
capabilities and are intended for use as components of complete equipment submitted for investigation rather
than for direct separate installation in the field. The final acceptance of the component is dependent upon its
installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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AVLV2.E349435 Appliance Wiring Material - Component

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Appliance Wiring Material - Component

[See General Information for Appliance Wiring Material - Component](#)**JIANGYIN KAIBO COMMUNICATION TECHNOLOGY CO LTD**

E349435

391 Meiyuan St

Chengjiang Town

Jiangyin, Jiangsu 214400 CHINA

Table of Recognized Styles							
Single-conductor, thermoplastic insulation.							
<u>1007</u>	<u>1061</u>	<u>1569</u>	<u>10064</u>	<u>10368</u>	<u>11149</u>		
<u>1015</u>	<u>1354</u>	<u>1571</u>	<u>10248</u>	<u>10369</u>			
Single-conductor, thermoset insulation.							
<u>3302</u>	<u>3385</u>	<u>3386</u>	<u>3619</u>				

Marking: Company name, voltage rating, temperature rating, conductor size, conductor material if other than copper, and use.

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Component - Plastics

E86034

NILIT PLASTICS EUROPE GMBH & CO KG

NIEDERMATT 11, UTZENFELD 79694 DE

A63 V0GV(c)

Polyamide 66 (PA66), "FRIANYL", furnished as granular material

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.75	V-0	0	0	130	90	130
	1.5	V-0	0	0	130	90	130
	3.0	V-0	0	0	130	90	130

Comparative Tracking Index (CTI): 0

Inclined Plane Tracking (IPT): -

Dielectric Strength (kV/mm): -

Volume Resistivity (10^x ohm-cm) : -

High-Voltage Arc Tracking Rate
(HVTR): -

High Volt, Low Current Arc Resis (D495): -

Dimensional Stability (%): -

(c) - Represents a number 21 through 24 inclusive.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 2004-05-24

Last Revised: 2006-04-13

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.75	V-0 (ALL)
			1.5	V-0 (ALL)
			3.0	V-0 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	0.75	960
			1.5	960
			3.0	960
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	0.75	775
			1.5	800
			3.0	800
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m ²	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m ²	-	-

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