

# APPROVAL SHEET

## 样品承認書

Zylux Part Number : 1029-0000201

Part Description : ANT-RF,BLACK,BT 2.4G BT天线 L=330MM

Manufacturer Part No. : IA.0457.LA.2FI

Firmware version : NA

Approved date :

Approval Condition			
Conditional Approval 限量承認		Formal Approval 正式承認	✓

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V)

All components of the material must comply with the hazardous material requirements (comply please tick V)

HALOGEN FREE(無鹵)	RoHS2.0	REACH	PRO65	CARB2
	✓	✓		
詳細的有害物質管控限制 Detailed Hazardous substances Restriction				
Zylux QMI-P40-01	✓	Samsung 0QA-2049	Sony SS-00259	

抗靜電電壓  
Antistatic Voltage

器件耐熱等級  
Device Heat Resistance Level

-40~80度

SUPPLIER(供應商)		
REPORTED 製作 陸進添	CHECKED 核對 彭文欽	APPROVED 批准 理霞

ZYLUX(朝陽)		
REPORTED 製作	QC CHECKED 核對	APPROVED 批准

### Supplier Contact point

Company Address : (地址)	深圳市福田区泰然六路苍松大厦北座601-602
TEL : (電話)	0755- 33353180



# IA.0457.LA.2FI

## Antenna Specification

### 1. Application:

This application shall apply for antenna unit which shall be used such as automotive, conventional communications, smart home, etc..

### 1. Electrical Specification:

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

#### 2-1. Frequency Band:

Frequency Band	MHz
BT 2.4G	2400-2500

#### 2-2. Impedance

50 ohm nominal


#### 2-3. VSWR

##### 2-3-1.Measurement frequency points and VSWR value

Frequency Band(MHz)	2400	2500
2-3-3. Typical Value:	1.27	1.09

##### 2-3-2. VSWR

Frequency Band(MHz)	2400	2500
2-3-3. Typical Value:	≤2	≤2

UNLESS OTHER SPECIFIED TOLERANCES ON: <b>X=±</b> <b>X.X=±</b> <b>X.XX=±</b> <b>ANGLES=±</b> <b>HOLEDIA=±</b>			<b>KINGRF TECHNOLOGY CO., LTD.</b>
<b>SCALE:</b>	<b>UNIT: mm</b>		
<b>DRAWN BY: LU</b>	<b>CHECKED BY: YS</b>	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	
<b>DESIGNED BY: JINTIAN</b>	<b>APPROVED BY: YS</b>		
<b>TITLE: IA.0457.LA.2FI Antenna Specification</b>			<b>SPEC REV.</b> <b>P0</b>

2-3-4 Measuring Method	<ol style="list-style-type: none"> <li>1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR.</li> <li>2. Keeping this jig away from metal at least 20 cm</li> </ol>
2-3-5 Picture	

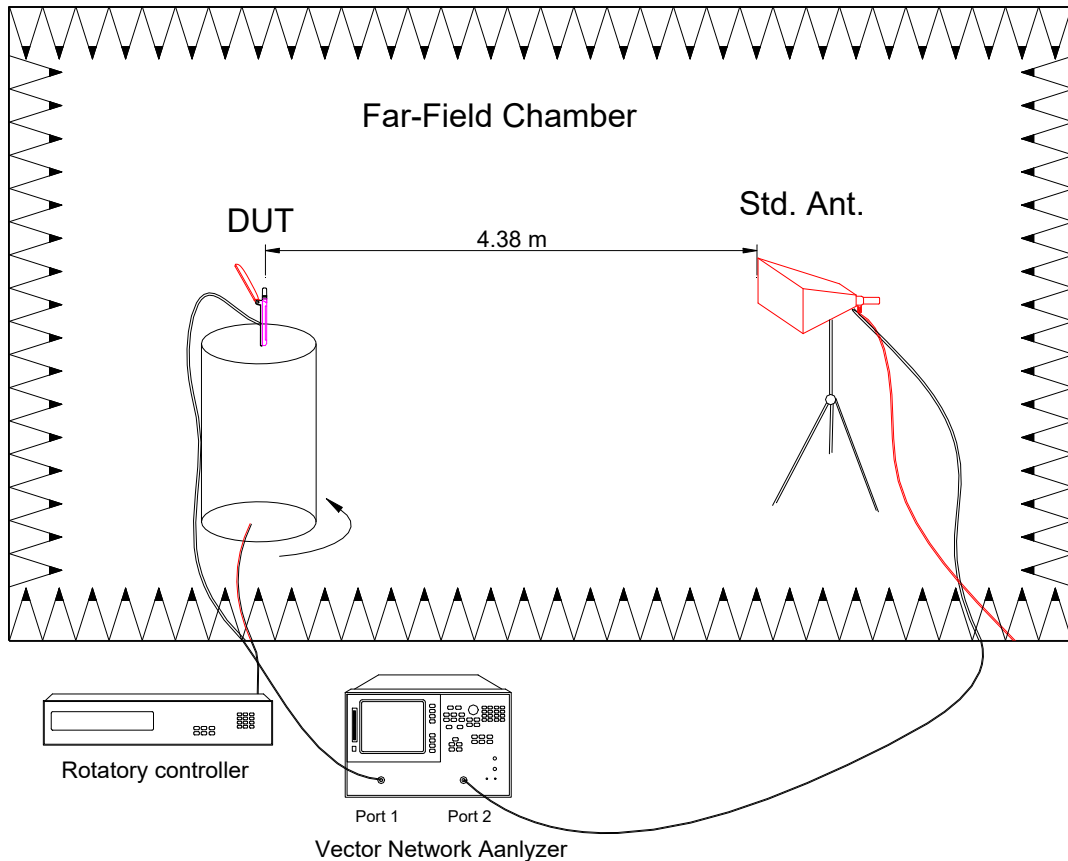
UNLESS OTHER SPECIFIED TOLERANCES ON: <b>X=±</b> <b>X.X=±</b> <b>X.XX=±</b> <b>ANGLES=±</b> <b>HOLEDIA=±</b>			<b>KINGRF TECHNOLOGY CO., LTD.</b>
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## 2-4. Efficiency and Gain

### 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



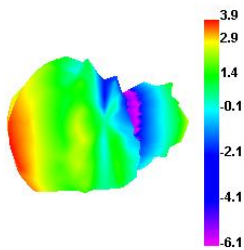
1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

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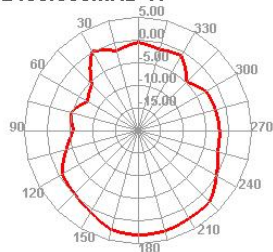
## 2-4-1 Efficiency and Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	84.63	-0.72	3.91
2410	71.42	-1.46	3.07
2420	82.88	-0.56	3.97
2430	79.58	-0.99	4.16
2440	82.14	-0.6	4.47
2450	65.01	-1.87	3.21
2460	77.29	-1.12	4.06
2470	64.72	-1.89	3.18
2480	69.98	-1.55	3.57
2490	67.68	-1.7	3.48
2500	62.13	-2.07	2.97

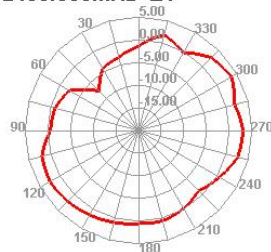
2400.000MHz



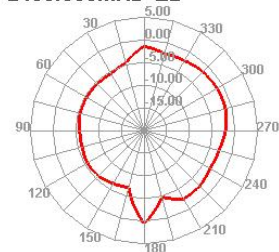
2400.000MHz H



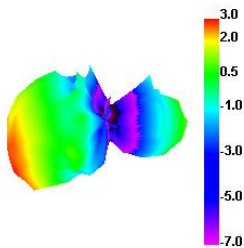
2400.000MHz E1



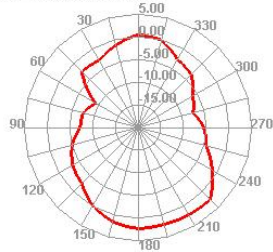
2400.000MHz E2



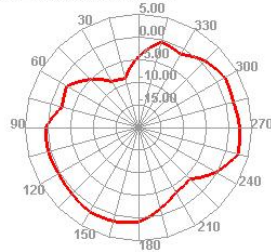
2500.000MHz



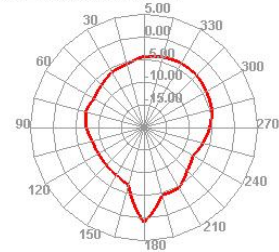
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



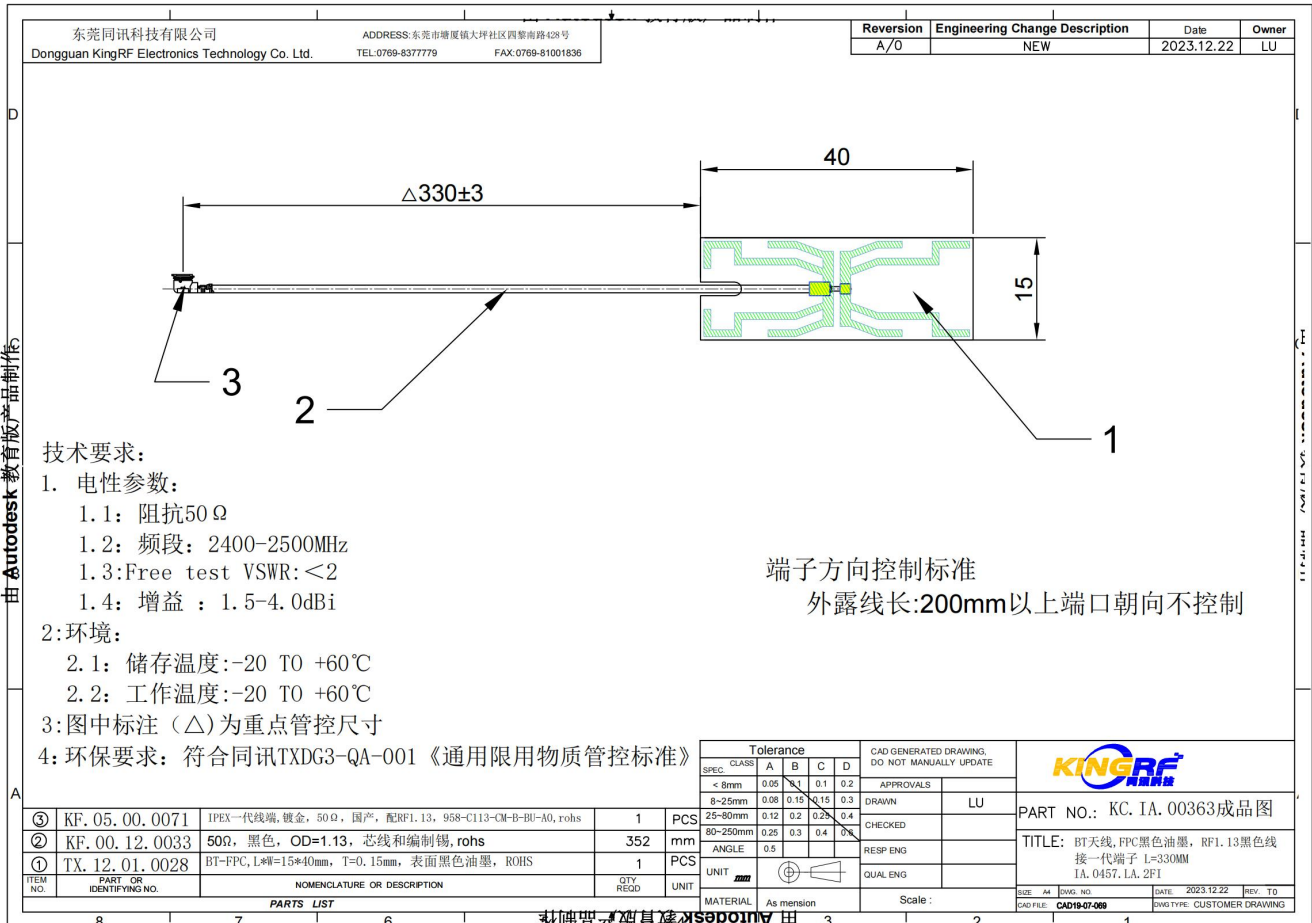
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### 3. Mechanical Specification:

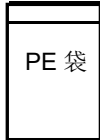
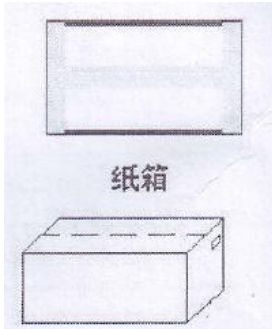
#### 3-1. Mechanical Configuration (Unit: mm)


The appearance of the antenna is according to drawing



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<b>SCALE:</b> DRAWN BY: LU DESIGNED BY: JINTIAN	<b>UNIT: mm</b> CHECKED BY: YS APPROVED BY: YS	
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## 5.包装规格:

产品料号: <b>XXX</b>			
产品型号: <b>XXX</b>			
一、标签要求:			
需方	<b>XXX</b>		
供方	<b>XXXXX</b>		
物料编码	<b>XX</b>		
产品型号	<b>XX</b>		
数量/单	<b>XXX PCS</b>	出厂日期	<b>X 年 X 月 X 日</b>
备注/其他			
二、装箱要求:			
作业说明:			
1. 内包装:			
产品 <b>XXpcs</b> 一袋, 放入小 <b>PE</b> 袋;			
2. 外包装:			
<b>XxPCS</b> 一箱;			
3. 注意事项:			
a. 是否要增设隔板、珍珠棉;			
b. 标签的帖附, 如 <b>ROHS</b> 等;			

UNLESS OTHER SPECIFIED TOLERANCES ON: $X = \pm$ $X.X = \pm$ $X.XX = \pm$ ANGLES = $\pm$ HOLEDIA = $\pm$			<b>KINGRF TECHNOLOGY CO., LTD.</b>
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东莞同讯科技有限公司  
盐水喷雾腐蚀试验报告

测试日期:202312/21

客户/代码 Customer/Code	/	测试员 Tester	孙永嬉	工程确认 Supervisor	陆进添
样品名称 Product/Part No.	KF.05.00.0071	生产线别 Line No.		样品数量 Quantity	15pcs
生产批号 Lot No.		测试仪器 Test Instrument	盐水喷雾腐蚀试验机 Salt Spray Corrosion Tester		
试验条件 Test Conditions		<input checked="" type="checkbox"/> GB/T10125		<input type="checkbox"/> 其它(other)::	
盐水浓度 Salt Concentration	5.0±0.1%				
喷雾量 Fallout Rate	1-2ml/80cm <sup>2</sup> /h				
溶液PH值 Salt Solution PH	6.5-7.2				
压缩空气压力 Air Pressure	1.2±0.5Kg/cm <sup>2</sup>				
试验室相对湿度(%) Test Chamber Relative Humidity(%)	≤70%RH				
压力桶温度 (°C) Pressure Tub Temperature (°C)	47±2°C				
试验箱温度 (°C) Salt Solution Reservoir Temperature (°C)	35±2°C				
试验累计计时(从喷雾时起计时) Accumulated Hours(since salt spray)	从(From): 12月21日 8:30, 至(To) 12月23日 8:30。 累计(Total): <input type="checkbox"/> 8h <input type="checkbox"/> 12h <input type="checkbox"/> 16h <input type="checkbox"/> 24h <input checked="" type="checkbox"/> 48h <input type="checkbox"/> __h				
判定 Test Result	判定依据 According as	依GB/T6461-2002 标准判定 Standard GB/T6461-2002		依以下标准判定: Below standard:	
	测试样品粘贴 Affixing Samples				
	试验结果描述 Test Result Description	结论: 经过48小时盐雾试验后,产品镀金表面无腐蚀现象, 经判定盐雾合格			
	结果判定 Result Decision	<input checked="" type="checkbox"/> 合格 <input type="checkbox"/> 不合格 <input type="checkbox"/> 仅供参考 Acceptable    Reject    Only for reference			

# 东莞同讯科技有限公司

## 高低温试验测试报告

High and low temperature test report

报告编号: XBHQA2023122601

日期: 2023-12-26

产品名称 Product name	BT-FPC	送检部门 Inspection department	工程	料号 Serial No	1029-0000201	试样数量Qty	3PCS
试验日期 Date	12月21日	试验时间 tTest time	48H	开始START	当日12:00	客户Customer	佳德
				结束OVER	12月23日12:00	供应商Supplier	同讯
测试仪器 instrumer	可程式恒温恒湿试验机			仪器编号 NO.	XBH-PG-HS001-051		
试验条件 Condition	高温80+/-2°C			低温-40+/-2°C			
试验时间 Tset time	48H			48H			
测试方法 Test method	将产品放置在温度为80+/-2°C的高温环境内存放48H, 再在温度-40+/-2°C的低温环境存放48H, 试验完成后再常温环境下放置2H以上后进行外观检验						
判定标准 Judging standard	部件无裂痕、明显变形、脱落、FPC起翘、电性能测试通过合格						
试验结果 Experiment a result	部件无裂痕、明显变形、脱落、FPC起翘						
判定结果 judge	OK						
说明: 1. 高低温实验作业标准依照中华人名共和国国家标准 GB/T2424.5-2005执行。 2. 试件外观判定标准依照中华人名共和国国标准 GB/T6461-02标准执行。	Explain: 1.High and low temperature experiment operation standards in accordance with the people's Republic of China national standard GB/T2424.5-2005 implementation. 2. Judge standard according to pelople's Republic of China national stanrd GB/T6461-02 standard a peeformance.						
审核Examine	试验员Tester						
陆进添	孙永嬉						



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	BT天线	料號/Part NO.	1029-0000201	*第 / 次試模/T__	*模號/Mold NO.	/	*生產設備/Machine			
規格/Description	ANT-RF, BLACK, BT 2. 4G BT天线 L=330MM IA. 0457. LA. 2FI						溫/濕度/Temperature/Humidity	-20 TO +60° C		
廠商 Vendor	佳德无线	*模具廠商 Mold Maker		檢驗日期 Check Date	2023. 11. 25	*模穴號 Cav. NO.	重量 Weight	1.28	生產產地 Produce place	东莞
檢查項目/Ins. Item	外露线长	FPC板长	FPC板宽				单重/g			
規格/Specification	352	40	15				1.28			
公差/Tolerance	±3	±0.2	±0.2				±5%			
測定值 Data	1	351	40	15			1.29			
	2	352	40	15			1.28			
	3	351	40	15			1.28			
	4	352	40	15			1.29			
	5	351	40	15			1.28			
	6	352	40	15			1.29			
	7	351	40	15			1.28			
	8	352	40	15			1.29			
	9	351	40	15			1.28			
	10	351	40	15			1.29			
判定欄/Judgement	OK	OK	OK				OK			
外觀記錄/Appearance Record	OK			<input checked="" type="checkbox"/> 合格/OK <input type="checkbox"/> 不合格/NG			主管/Approval		Yassel	檢驗者/Inspector
裝配記錄/Assembly Record	OK			備註 Remark						

\*\_\_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)