承 认 书

SPECIFICATION FOR APPROVAL

供应商名称/SUPPLIER: 深圳市亿圣邦科技有限公司

物料名称/PRODUCT NO.: 2.4G+5G 双频 WIFI 天线

供应商型号/SUPPLIER NO.: SLK-DS-BB-260I-G

汇智/鼎盛物料代码/ Huizhi/Ateko NO.:

汇智/鼎盛承认栏			供应商承认栏			
Hui	Huizhi/Ateko APPROVAL			SUPPLIER APPROVAL		
质量部	工程部	安规	核准	检验	承办	
QUALITY	R&D	SAFTY	APPROVED	CHECKED	DRAWING	
			职位:总经理	职位:工程经理	职位:工程师	
			姓名: 林美财	姓名: 黄震	姓名: 刘才亮	

公司: 惠州市汇智科技有限公司

CUSTOMER: Huizhou Huizhi Technology Co.,Ltd

地址: 惠州大亚湾泰宏工业园 C1 栋三楼

ADD: Third floor, building C1, Taihong

Industrial, Daya Bay, Huizhou

电话/TEL: 0755-26740460

公司: 深圳市鼎盛光电有限公司

CUSTOMER: Shenzhen Ateko Photoelectricity Co.,Ltd

... 深圳市宝安区沙井街道黄埔社区镇头路黄埔润和

工业园 F 栋

地址:

Building F, Huangpu Runhe Industrial

Park,Zhentou Road,Huangpu

Community, Shajing Sub-district, Bao'an

District,Shenzhen

电话/TEL: 0755-81446315 公司: 深圳市亿圣邦科技有限公司

CUSTOMER: Shenzhen Yishengbang Technology Co., Ltd

地址: 深圳市宝安区深圳硬科技产业园 C 栋 101

101, Building C, Shenzhen Hard

ADD: Technology Industrial Park, Bao'an

District, Shenzhen

电话/TEL: 18025305599

Shenzhen Yishengbang Technology Co., Ltd SPECIFICATION FOR APPROVAL

Customer	Name:	Shenzhen At	<u>eko Photoeled</u>	<u>ctricity Co., l</u>	<u>_td</u>	
Material	code:	A	755PEX2402L			
Material	Name:	2. 4G+5G dual band WIFI antenna IPEX wifi dual copper tube antenna				ntenna
Recognit	ion da	te:	2023. 7. 31			
Supplier	Name:	Shenzhen	Yishengbang	Technology	Co.,	Ltd
Supplier	part	number:	SLK-DS-BB-2	601-G		

Recognition signature							
Supplier Recognition				Shenzhen Ateko Photoelectricity Co., Ltd.			
Engineer	Auditing		Ratify	Engineer	Audit	ting	Ratify
Liucailiang	Huangzhen		Linmeicai				
Stamped a	nd			Stamped a	and		
signed				signed			
Date		2023. 7. 31		Date			
Instructions:		□accept	□Cond	ition	nal acceptance		
Notes:							

Supplier Name: Shenzhen Yishengbang Technology Co., Ltd

Supplier address: 101, Building C, Shenzhen Hard Technology Industrial

Park, Bao'an District, Shenzhen

Phone: 18025305599 Phone: 18666299104

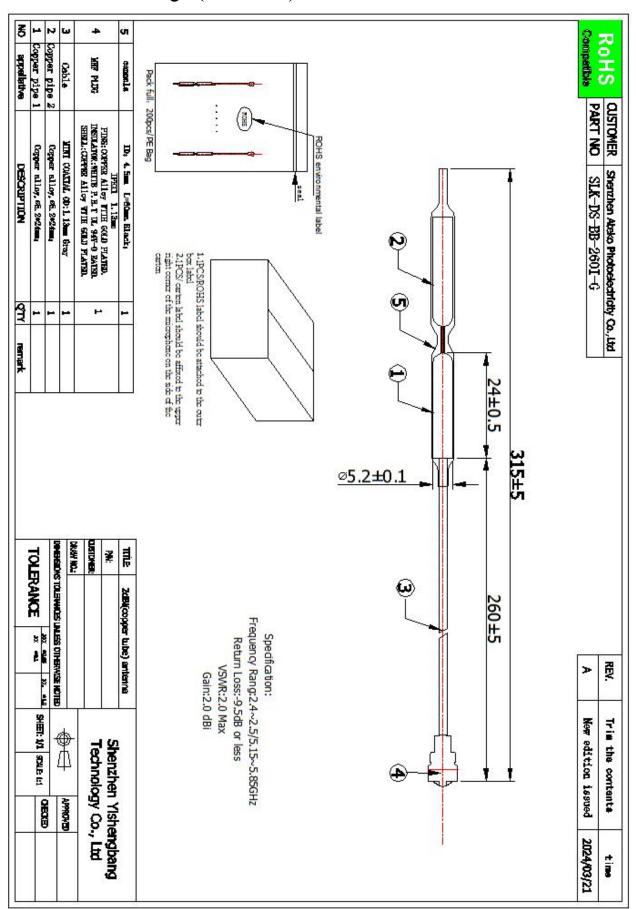
List

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Revision History

REVISION	DESCRIPTION	DATE
A0	First formulation	2023.7.31

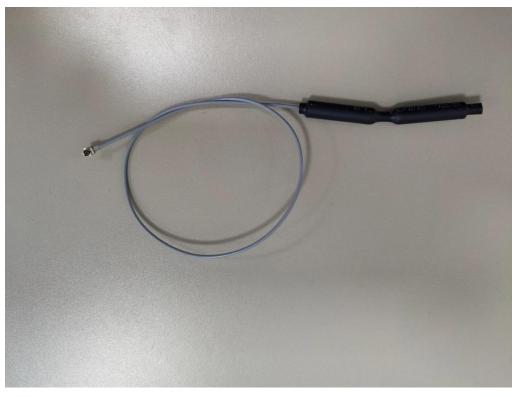
5. Product drawings (unit: mm)



6. Physical pictures

SLK-DS-BB-260I-G

1 2 3 4



Product Code:

(1) Customer:

 $DS\mbox{:}\mbox{Shenzhen}$ Ateko Photoelectricity Co.,Ltd.

(2) Antenna Name:

BB: Brass(5.2*24*1.1)

(3) Cable Length:

260I: 260*1.13MM

(4)Cable Color G:Grey

7. Bill of Materials

Material code	SLK-DS-BB-260I-G		Product Name	WIFI Antenna
Serial Number	Material Name	Specifications model	Qualified supplier	Notes
1	RF cable	1.13 Black/Grey	Weibotong/Xigenuo	
2	Terminals	First generation terminals	Caimei/Qifukang	
3	Copper wire	Copper wire	Zhaohui	
4	Copper tube	Copper tube	Zhaohui	
5	Heat shrink tubing	Heat shrink tubing	Woer/Sanlian	

8. Material certification

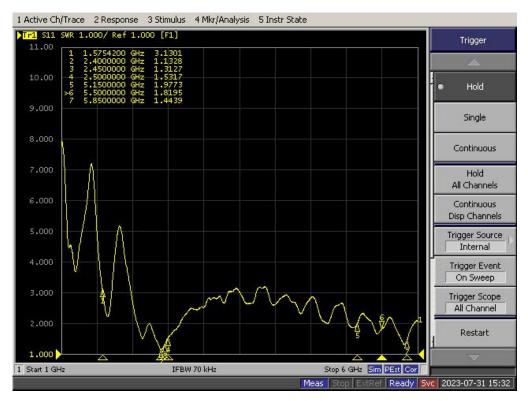
No.	Material name	Describe	Testing organizatio n	Authentication code	Report test date	State
1	Copper tube	Copper tube	SGS	CANEC2300481702	2023/01/18	Effective
2	Heat shrink tubing	Heat shrink tubing	SGS	CANEC2226951412	2022/12/20	Effective
3	Tin wire	Tin wire	SGS	CANEC23005192206	2023/07/03	Effective
4	RF cable	RF cable	SGS	CANEC2301851703	2023/2/22	Effective
	DE1	Nickel coating	СТІ	A2220404860101002C	2022/09/17	Effective
5	RF1 generation terminal) Gold plating (thickness ≥ 1um)	СТІ	A2220404860101001C	2022/09/17	Effective

9. Test report

9-1

Main technical specifications				
Frequency Range (MHZ)	2400-2500+5150-5850			
$\operatorname{Impedance}(\Omega)$	50			
Gain(dBi)	2±0.5			
VSWR	≦2			
Polarization	Linear			
Radiation	Omni-directional			
Connector Type	First generation terminals			
Physi	ical Properties			
Antenna cover	Copper			
Operating Temp	-20°C~+70°C			
Storage Temp	-20°C∼+70°C			

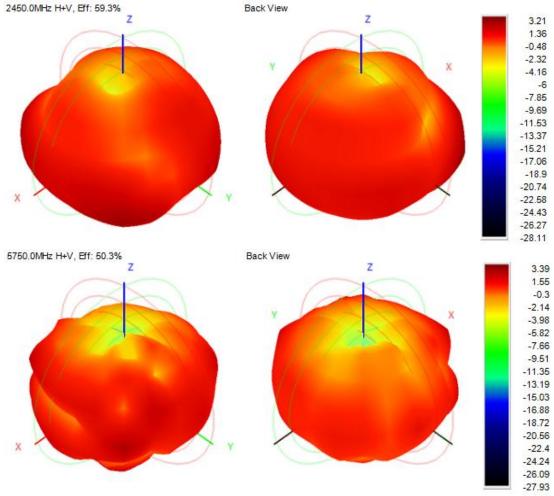
9-2.VSWR/S11





9-3.WIFI Antenna Gain/Efficiency/Radiation Pattern of 3D

Frequency	Efficiency	Gain	Efficiency
(MHz)	(dBi)	(dBi)	(%)
2400.0	-2.01	3.86	62.98
2410.0	-1.88	3.89	64.91
2420.0	-1.86	3.87	65.23
2430.0	-1.86	3.44	65.17
2440.0	-2.22	3.34	60.01
2450.0	-2.27	3.21	59.29
2460.0	-2.12	3.41	61.35
2470.0	-2.36	3.04	58.13
2480.0	-2.28	2.84	59.22
2490.0	-2.33	2.43	58.48
2500.0	-2.49	1.72	56.39
5150.0	-3.46	0.90	45.05
5300.0	-3.51	0.65	44.61
5500.0	-3.42	1.12	45.46
5750.0	-2.98	3.39	50.30
5850.0	-2.88	3.36	51.48



10. Inspection report

10-1 Sample key size inspection

Date: 2023-07-27

Customer Name	Shenzhen Ateko Photoelectricity Co.,Ltd.				
Supplier part number		SLK-DS-BB-260I-G			
No.	Exterior	Exterior Size			
		VSWR	Copper tube length	Total length of antenna	Exposed length of RF cable
1	OK	<2	24.03	316	261
2	OK	<2	24.02	315	261
3	OK	<2	24.02	316	261
4	OK	<2	24.01	316	260
5	OK	<2	24.02	315	260

Note: The standing wave ratio of the antenna is less than 2, and the dimensional tolerance is in accordance with the drawing specifications.

10-2 Salt spray test

Test items	Salt spray test					
Supplier part number	SLK-DS-BB-260I-G	Inspection quantity: 5PCS				
detection time: 2023-07-27 TIME2023-07-28						
Testing/Inspection Equip 1. HY-60D salt spray tes 2. HP-8753ES network a	ster					
Test/inspection condition	ns:					
1. The temperature insid 22-30 °C	e the salt spray box is 35 \pm	2 °C; Laboratory temperature				
U 1	salt spray is 1-2ML/h per 80 chloride is 50 \pm 10g/L, an	cm area after 24h spray. The nd the PH value For 6.5/7.2				
Judgment criteria:						
	ets the standard requirement	s: the voltage standing wave ratio test				
is qualified; The metal surface coa	ting has no defects such as o	ovidation neeling cracking				
separation, etc; Non met	allic parts have no discolora	tion, deformation, delamination,				
cracking or other defects	3					
No.	Evaluation level	Bad description				
1	qualified	nothing				
2	qualified	nothing				
3	qualified	nothing				
4	qualified	nothing				
5						
Test/Inspection Judgment: □ qualified □ Unqualified □ Not making judgments						
Tested by Wang Guoxin	g Reviewed by Guo Liang					

10-3 Constant temperature and humidity test

Test items	Constant temperature and humi	dity				
Supplier part number	SLK-DS-BB-260I-G	Inspection quantity: 5PCS				
detection time: 2023-0	TIME2023-07-28					
Testing/Inspection Equi 1. Programmable consta 2. HP-8753ES network	nt temperature and humidity test	chamber				
Test/inspection conditio						
1. Test in an environmen	nt with room temperature of 25 °C	C and humidity of 65%				
2.+80 ± 2 °C 85-90% hours	% RH/-30 \pm 2 °C 0% RH for 2	hours, one cycle time of 24				
Judgment criteria:						
is qualified; 2. The metal surface coa	 The electrical test meets the standard requirements: the voltage standing wave ratio test is qualified; The metal surface coating has no defects such as oxidation, peeling, cracking, 					
separation, etc; Non met cracking or other defects	tallic parts have no discoloration,	deformation, delamination,				
No.	Evaluation level	Bad description				
1	qualified	nothing				
2	qualified	nothing				
3	qualified	nothing				
4	qualified nothing					
5	5 qualified nothing					
Test/Inspection Judgmen ☐ Not making judgmen	•	☐ Unqualified				
Tested by Wang Guoxir	ng Reviewed by Guo Liang					

10-4 Pull test

Te	st items		pull test						
Su	Supplier part number SI		SLK-DS-BB-260I-G			Inspection quantity: 5PCS			
det	tection time:	,	ГІМЕ2023-07-27						
Testing/Inspection Equipment: 1. Tensile testing meter									
Test/inspection conditions:									
1. Temperature: 18-25 °C 2. Humidity ≤ 70% RH									
Test result: Qualified									
		Maintenance force between terminals and RF cables≥1kgf							
	Test frequency	1	2	3	4	5			
	Test result	1.27	1.25	1.23	1.27	1.26			
Te	st/Inspection J	ludgme	nt: □qualifi	ed		Inqualified			
□ Not making judgments									
Tested by Wang Guoxing Reviewed by Guo Liang									

11. Packaging method

Packaging Operation Instructions (Example)

Customer:	Product: 2.4G WIFI antenna IPEX WIFI single	Color: Gray
	copper tube antenna	
Customer part number:	Part number: SLK-DS-B-245I-G	Date: 2023.7.31



1.50PCS per bundle



2.200PCS per bag。



4. Sealing the box $_{\circ}$



 $3. Packing {\scriptstyle \, \circ \,}$

Note: Inner packaging: 200PCS per pack

Outer packaging: cardboard box size 380X380X180MM, 2400PCS per box.

According to the actual order quantity, there may be differences in the size of the cardboard boxes.

Create different inner and outer packaging labels according to different customers.

Engineering Department: Liu Cailiang Quality Department: Guo Liang Approval: Huang Zhen