

# acknowledgement

Product Description:

Manufacturer: Shenzhen Yusheng Communication Equipment Co., LTD

Material name: Bluetooth RF antenna

Material code: 3.01. IDW13F1001

Version No. :

R:a

Attachment:

Instructions for electrical and mechanic  manufacturing flowchart

CPK report

full size survey report

Raw Materials List /RoHS report /HF/REACH

Project Model:

IDW13 Custom /FPC  
Bluetooth RF antenna /YS

Spec/Color: White

Date of signature: 2022-12-08

Remarks : (This cover needs to be stamped with supplier's seal)

Lay down QC engineer  sample

Reliability test report  packing method

Supplier sign

Proposed:

Review:

(All of the above require a hand signature, printing is not allowed)

Approved:

(Everything that needs to be provided needs to be filled in color)

The above is to be filled out by the vendor and the following by Aidu

	Department	Confirm content				Comments	Comments	results	person/date
Technical confirmation field	Supplier quality	<input type="checkbox"/> RoHS materials <input type="checkbox"/> Non-Rohs materials	<input type="checkbox"/> Meet the REACH requirements	<input type="checkbox"/> It meets the halogen free requirements	<input type="checkbox"/> Other environmental protection requirements				
	ID of Design Department:	<input type="checkbox"/> ID required by customer	<input type="checkbox"/> Color confirmation	<input type="checkbox"/> Surface workmanship is confirmed	<input type="checkbox"/> Shell, hardware, key material				
	Structural Engineer	<input type="checkbox"/> 2D drawing file size confirmation <input type="checkbox"/> Specifications technical	<input type="checkbox"/> Focus on size marking <input type="checkbox"/> Electrical performance	<input type="checkbox"/> Adaptation verification <input type="checkbox"/> Functions	<input type="checkbox"/> Shell, hardware, key material <input type="checkbox"/> Effect				
	Hardware Engineer	<input type="checkbox"/> 2D drawing file size confirmation <input type="checkbox"/> Specifications technical	<input type="checkbox"/> Focus on size marking <input type="checkbox"/> Electrical performance	<input type="checkbox"/> Adaptation verification <input type="checkbox"/> Functions	<input type="checkbox"/> Shell, hardware, key material <input type="checkbox"/> Effect				
	Research and development quality:	<input type="checkbox"/> Test standards confirmed <input type="checkbox"/> Appearance	<input type="checkbox"/> Specification of dimensions (key dimensions)	<input type="checkbox"/> Reliability verification <input type="checkbox"/> Adaptation Verification	<input type="checkbox"/> Function <input type="checkbox"/> Effect				

Final confirmation Project Manager:  Acknowledge the  Specifications a  Electrical per  Function  effect

Conditions of recognition:  Formal recognition

Limited recognition

Denial of recognition

Distribution dep:  IQC  Suppliers  Customers  After sales  SQE/ Document Control

Others \_\_\_\_\_

# Catalogue

1. Cover
- 2, Contents
- 3, Electrical, mechanical properties description (sp)
4. Bill of materials.RoHS.REACH.HF report
5. Full scale measurement report
6. Cpk report
- 7, CPK Reliability test report
8. QC engineering drawing
9. Packaging Information
10. Material list MSDS(required to meet REACH, no halogen and other environmental requirements provided)
11. Environmental substance questionnaire (provided when the requirements meet REACH, halogen free and other environmental requirements)

## 1. Overview

### 1.1 Scope of application

This requirement specifies the antenna technical requirements and material requirements specification for IDW13 products. This requirement applies to antenna selection, testing and acceptance of IDW13 products.

### 1.2 Basic information of the

Antenna name:	IDW13
Antenna band:	BT: 2400-2500MHz
Antenna material:	Electrolytic copper +PI gold plating
Antenna version:	V3

## 2. Technical specification:

### 2.1 Introduction of test item

List	Test items	Equipment
S11 parameters	Standing wave ratio, return loss	Network analyzer
Active testing	TRP,TIS	General tester, microwave darkroom
Passive testing	Gain, efficiency	Network analyzer

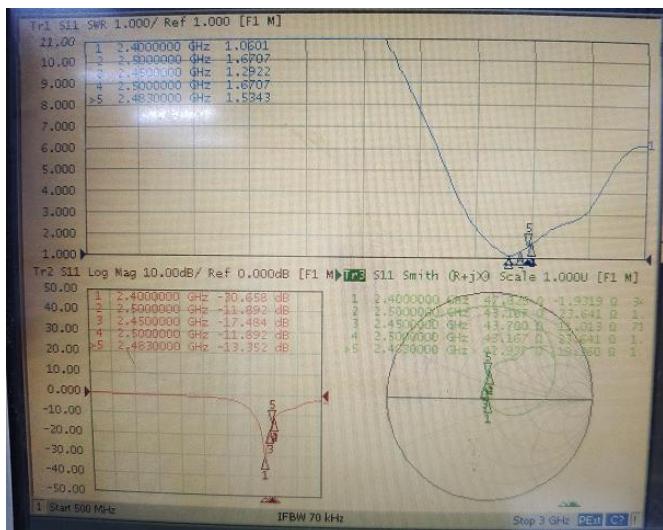
### 2.2.1 Test instructions

Test tools: Agilent8960 integrometer, R&SCMW500, all-wave far-field ETS darkroom, high precision positioning system and its controller and computer with automatic test program

Test environment: temperature  $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , humidity  $50\% \pm 15\%$

Test method: The DUT is fixed on the center position of the turntable with the H plane, and the center position of the horn antenna is on the same horizontal line. The positioning system makes the DUT rotate on the whole sphere to meet the high precision three-dimensional positioning. Each RF instrument, turntable controller and PC with automatic test software communicate through the GPIB interface

### 2.2.2 Antenna passive param



### 2.2.3 Antenna Passive Param

Test	Free-space								
	1	2	3	4	5	6	7	8	9
Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480
Efficiency (%)	24.6	25.7	26.1	26.4	27.2	26.4	26.1	25.5	24.8
效率(dB)	-6.1	-5.9	-5.8	-5.8	-5.6	-5.8	-5.8	-5.9	-6.1
增益(dBi)	-1.82	-1.57	-1.34	-1.19	-1.02	-1.36	-1.47	-1.74	-1.86

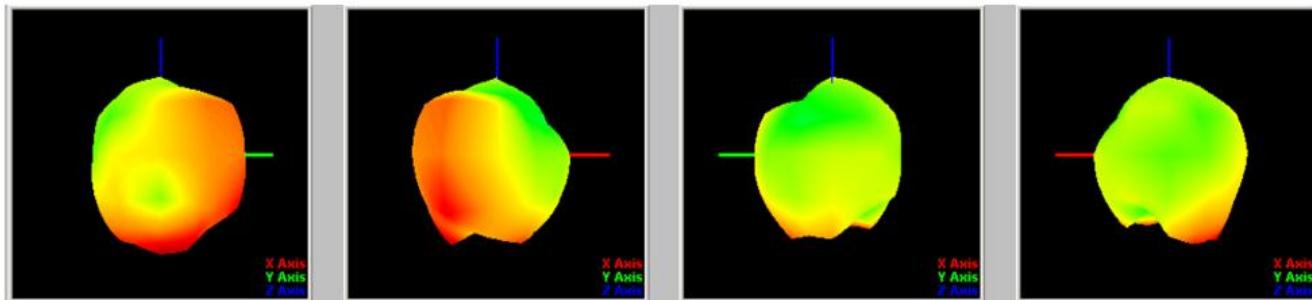
  

Test	ARM								
	1	2	3	4	5	6	7	8	9
Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480
Efficiency (%)	9.6	10.2	10.4	10.7	11.3	11.0	10.6	10.3	9.7
效率(dB)	-10.1	-9.9	-9.8	-9.7	-9.5	-9.5	-9.7	-9.8	-10.1
增益(dBi)	-5.56	-4.67	-4.36	-4.26	-3.87	-4.25	-4.56	-4.84	-5.39

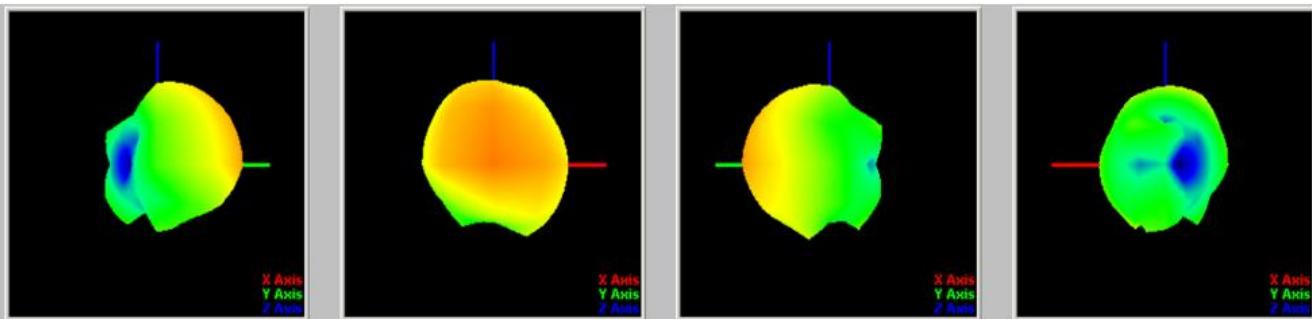
### 2.2.4 Antenna direction

Diagram -BT

FS



ARM



### 2.3 Motherboard Conductio

Test	BT		
Result	0	39	78
TRP (dBm)	8.27	8.55	8.34
TIS (dBm)	-93	-93	-93

### 2.4 Active antenna parameters

Test	天线OTA-FS		
Channel	0	19	38
TRP(dBm)	2.57	2.71	2.65
TIS(dBm)	-87.52	-87.19	-87.33

Test	天线OTA-Hand		
Channel	0	19	38
TRP(dBm)	-2.41	-2.13	-2.32
TIS(dBm)	-82.14	-82.26	-82.41

## 2.5 Antenna test environment



### 3. 2D diagram file

<p style="text-align: center;"><b>由 Autodesk 教育版产品制作</b></p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>skills requirement:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">1. FPC substrate specifications:</td> <td>PI substrate: Electrolytic copper (half to half)</td> </tr> <tr> <td>Electrolytic copper: 0.5oz (ED)</td> <td>Double-sided tape: TESA 68532</td> </tr> <tr> <td>2. Electroplating specifications:</td> <td>Nickel plated: 3~8um; Gilded: 0.025um</td> </tr> <tr> <td>3. Surface ink requirements:</td> <td>Surface ink color: White</td> </tr> <tr> <td>Printing font color: Cool Gray</td> <td>Printing font height: According to drawings</td> </tr> </table> </div> <div style="width: 45%;"> </div> </div> <p><b>1. Reliability test: salt spray test\rubber friction test\alcohol resistance test\100 grid test.</b></p> <p><b>2. The front ink, the surface of the ink is required to be folded in half without cracking, scratching, etc.</b></p> <p><b>4. Reliability requirements:</b></p> <ol style="list-style-type: none"> <li>1. Shape tolerance <math>\pm 0.10</math>;</li> <li>2. Copper foil circuit tolerance <math>\pm 0.05</math>;</li> <li>3. The position of the copper foil to the shape is <math>\pm 0.15</math>;</li> <li>4. Hole-to-hole position tolerance <math>\pm 0.10</math>; hole-to-shape position tolerance <math>\pm 0.15</math>;</li> <li>5. The size tolerance of gold finger is <math>\pm 0.20</math>.</li> <li>6. For other unmarked dimensions, refer to 2D drawings.</li> </ol> <p><b>5. Tolerance requirements:</b></p> <p><b>6. Key control size:</b> The dimensions marked with numbers are regarded as important dimensions, and the others refer to 2D drawings</p> <p><b>7. Environmental requirements:</b> Parts meet ROHS2.0/HF/Reach/GP environmental protection requirements</p> <p><b>8. Packaging requirements:</b> Packed in PE bags, the quantity of each bag is 100PCS, there is a mark on the outside of the bag</p>	1. FPC substrate specifications:	PI substrate: Electrolytic copper (half to half)	Electrolytic copper: 0.5oz (ED)	Double-sided tape: TESA 68532	2. Electroplating specifications:	Nickel plated: 3~8um; Gilded: 0.025um	3. Surface ink requirements:	Surface ink color: White	Printing font color: Cool Gray	Printing font height: According to drawings	<p style="text-align: center;"><b>ShenZhen Yu Sheng Communication Equipment Co., Ltd.</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">0 10</td> <td style="width: 15%;">± 0.10</td> <td style="width: 15%; text-align: center;"><input type="radio"/> 0.02</td> <td style="width: 15%; text-align: center;"><input type="radio"/> 0.03</td> <td style="width: 15%;">Model</td> <td style="width: 15%;">IDW13</td> <td style="width: 15%;">DATE</td> <td style="width: 15%;">20230516</td> </tr> <tr> <td>10 20</td> <td>± 0.12</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/> 0.03</td> <td>Name</td> <td>BT antenna</td> <td>Design</td> <td>JFB</td> </tr> <tr> <td>20 40</td> <td>± 0.15</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/> 0.02</td> <td>Part NO</td> <td>063007-IA</td> <td>Review</td> <td>MD JFB</td> </tr> <tr> <td>40 50</td> <td>± 0.20</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/> 0.04</td> <td>Material quality</td> <td>Electrolytic copper (half to half)</td> <td>RF</td> <td>CKH</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/> 0.02</td> <td>Mold surface treatment</td> <td>confirm</td> <td></td> <td></td> </tr> <tr> <td>DATE</td> <td>Modify the content</td> <td>Version</td> <td>Revise</td> <td>Appearance treatment</td> <td>UNIT</td> <td>mm proportion</td> <td>FIT</td> <td>Revise</td> <td>R: A</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td></td> <td></td> </tr> </table>	0 10	± 0.10	<input type="radio"/> 0.02	<input type="radio"/> 0.03	Model	IDW13	DATE	20230516	10 20	± 0.12	<input type="radio"/>	<input checked="" type="radio"/> 0.03	Name	BT antenna	Design	JFB	20 40	± 0.15	<input type="radio"/>	<input checked="" type="radio"/> 0.02	Part NO	063007-IA	Review	MD JFB	40 50	± 0.20	<input type="radio"/>	<input checked="" type="radio"/> 0.04	Material quality	Electrolytic copper (half to half)	RF	CKH			<input type="radio"/>	<input checked="" type="radio"/> 0.02	Mold surface treatment	confirm			DATE	Modify the content	Version	Revise	Appearance treatment	UNIT	mm proportion	FIT	Revise	R: A	1	2	3	4	5	6	7	8		
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### 3.1. BOM list

YUSHENG COMMUNICATION TECHNOLOGY CO.,LTD.

063007(IDW13) -BOM

File number

Edition: R:A Customer :063 Model: Date: 2022-12-01

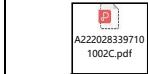
Item	Material number	Item name	Type	Version	Specifications	Material	Finish	Color	Units	Quantity	Craft
1	063007-IA	BT-FPC	Z	R:A	13.30 * 7.26 * 0.12 MM	Electrolytic Copper half and half /TESA 68532	Gilding	White	PCS	1	Pressing film
1.1	063007-IA-01	BT-FPC	Z	R:A	13.30 * 7.26 * 0.12 MM	Electrolytic Copper half and half /TESA 68532	Gilding	White	PCS	1	Pressing film

parts meet the environmental protection requirements of ROHS2.0/HF/Reach/GP, and comply with the company's harmful substances limit standard and m

Type: W. outsourcing B. Semi-finished products Z. Finished products C. Customer supply

Confirmation: Audit: Production: Feng Jiwu

# Bill of Materials /RoHS report

Material name:											
Material No. :											
Product Composition information											
Material number	Material name	Raw material specifications	Material supplier	RoHS/REACH/HF			Test facility	Report No.	Date of report	Notes	
1	PI-CCL electrolytic flexible copper-clad plate	Halogen-free epoxy resin adhesives Halogen - free epoxy resin adhesives	CAI Lungerti	Compliance with RoHS	Whether it complies with REACH	Whether it complies with HF	Test Lab	SHAEC23001049106 SHAEC23001049108	2023-02-15 2023-02-15	 电解 ROHS 卤素(3).pdf	 电解SVHC(3).pdf  MSDS 无卤聚酰亚胺铜箔基板.pdf
		copper foil		is	is	is					
		PI membrane PI membrane									
4	TESA 68532 Back glue	Polyester film	TESA	is	is	is	SGS	REACH:SHAEC221756903	REACH:2023-01-04	 SHAEC221756903 3M背胶 REACH	 SHAEC2217569207 3M背胶 卤素 2  SHAEC2217569205 3M背胶 ROHS  MSDS 3M背胶 9471.pdf
		Acrylic Adhesive						卤素: SHAEC2217569207	卤素: 2023-01-04		
		Aliphatic Hydrocarbon Resin						ROHS:SHAEC2217569205	ROHS:2023-01-04		
		Paper laminated with Polyethylene									
5	Nickel Gold Plating	Ni nickel	Dried saint	is	is	is	NTEK North Test	ROHS:A2220283397101001C HF:A2220283397101002C REACH:A2220448917101001C	2022/07/06 2022/07/06 2022/10/10	 乾圣MSDS中文版 2019070210070  A2220283397101001C.pdf	 A2220283397101002C.pdf  A2220448917101001C(1).pdf
6		gold Gold									
7		Brightener									
8	White covering film	Epoxy resin	Fubon	is	is	is	CTI	REACH: A2230108006102001E ROHS: A2230108006101003E	2023/3/25 2023/3/21	 2023富邦REACH 检测报告A223010	 富邦 白膜 ROHS+卤素.pdf  富邦覆盖膜MSDS (2023中英互译版)
9		Flame retardants									
10		Rubber									
11		Curing agent									
Notes	All materials must be filled in and stated "RoHS report /REACH/HF meets requirements, confirm OK"										

At report One paper file report is required for each material.

Note: The third party report should be inserted into the form or sent together with the acknowledgement package (named by material name + report number + report date). The report must be valid within one year;

Shenzhen Yusheng Communication Equipment Co., LTD

IDW13-FPC full-scale test report

Customer name	Aidu	Product name	IDW13		Ingredient number	063007
Mold hole number		The 1st inspection			Date	2022.1209

Inspection of appearance

Serial number	Standard values	Measured value						Decision		Notes
		1	2	3	4	5	6	OK	NG	
1	13.30	+0.15 -0.15	13.35	13.4	13.36	13.37	13.38	13.36	OK	
2	7.26	+0.15 -0.15	7.29	7.29	7.28	7.32	7.31	7.31	OK	
3	2.10	+0.30 -0.30	2.23	2.3	2.04	2.06	2.19	2.29	OK	
4	1.05	+0.30 -0.30	1.05	1.06	1.04	1.09	1.06	1.08	OK	
5	9.59	+0.15 -0.15	9.65	9.63	9.65	9.68	9.67	9.68	OK	
6	1.85	+0.15 -0.15	1.88	1.80	1.89	1.87	1.86	1.89	OK	
7	1.10	+0.10 -0.10	1.09	1.08	1.09	1.12	1.12	1.12	OK	
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										

Judgment result: Qualified

Surveyor: Chung Qiu-hung

Confirmed: Feng Jiwu

# Process Capability Calculation Worksheet

Part Number: BT  
 Part Description: IDW13  
 Part Revision: FPC

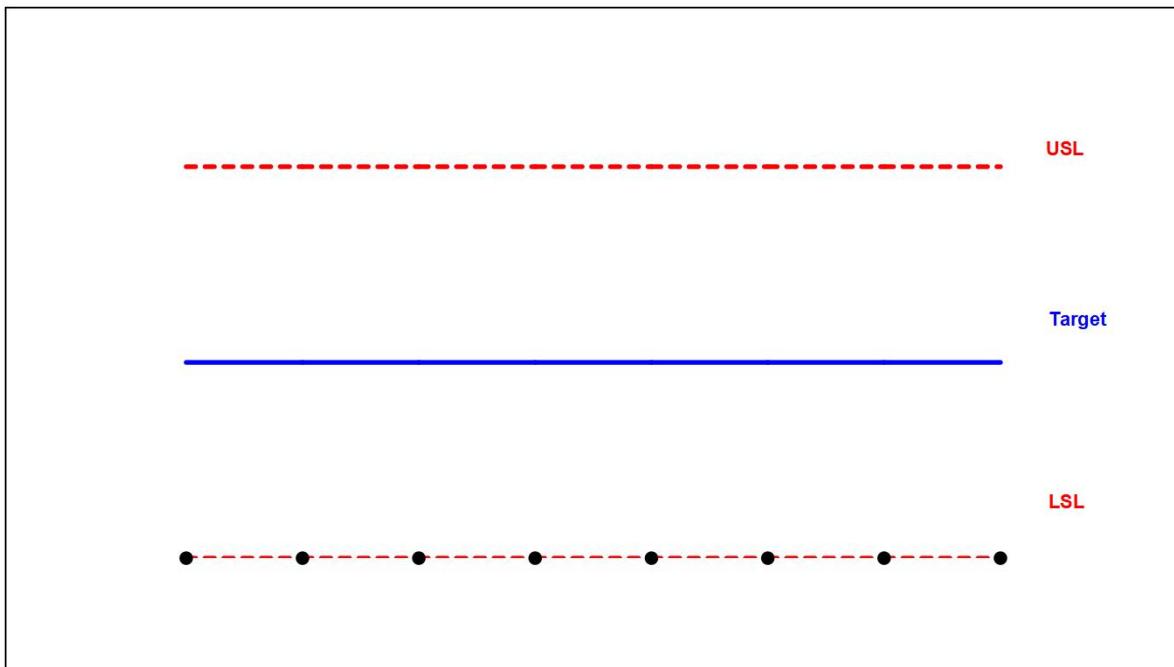
Supplier :   
 Submission Date: 09-12-2022

Cavity / Tool # : #REF!  
 Inspector:

## Cpk Data

	DRAWING SPECIFICATIONS							
	Cpk1 - #	Cpk2 - #	Cpk3 - #	Cpk4 - #	Cpk5 - #	Cpk6 - #	Cpk7 - #	Cpk8 - #
Nominal	7.260	13.300	2.100	1.050				
Upper Tol.	0.150	0.150	0.300	0.300				
Lower Tol.	0.150	0.150	0.300	0.300				
USL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LSL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Total Tol	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Xbar	0.000	0.000	0.000	0.000				
Stdv	0.000	0.000	0.000	0.000				
Zu	0.000	0.000	0.000	0.000				
ZI	0.000	0.000	0.000	0.000				
Cp	0.000	0.000	0.000	0.000				
Cpk	0.000	0.000	1.419	1.349				
Max	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



**DIMENSIONAL DATA**

Sample								
1	7.26	13.27	2.20	1.050				
2	7.24	13.29	2.32	1.105				
3	7.16	13.28	2.07	0.960				
4	7.25	13.29	2.05	0.980				
5	7.27	13.31	2.06	1.020				
6	7.28	13.32	2.06	1.050				
7	7.22	13.32	2.06	1.060				
8	7.26	13.32	2.05	1.019				
9	7.28	13.34	2.32	1.150				
10	7.24	13.36	2.11	1.160				
11	7.25	13.35	2.13	1.160				
12	7.22	13.33	2.15	1.150				
13	7.26	13.33	2.13	1.050				
14	7.28	13.32	2.05	1.060				
15	7.27	13.27	2.09	0.960				
16	7.19	13.29	2.07	0.980				
17	7.26	13.28	2.05	1.020				
18	7.26	13.29	2.06	1.050				
19	7.26	13.31	2.06	1.060				
20	7.27	13.32	2.06	1.019				
21	7.27	13.32	2.05	1.150				
22	7.26	13.32	2.04	1.160				
23	7.27	13.34	2.11	1.160				
24	7.26	13.36	2.13	1.160				
25	7.29	13.35	2.15	1.020				
26	7.25	13.33	2.13	1.050				
27	7.23	13.33	2.12	1.060				
28	7.21	13.32	2.13	1.019				
29	7.26	13.31	2.12	1.150				
30	7.23	13.31	2.12	1.160				
31	7.23	13.31	2.13	1.140				
32	7.25	13.30	2.13	1.140				

# Reliability test report

## Cold and heat shock test report

Customer	Aidu		Date	2022-12-05		In-plant number	THOT-063007-001							
Ingredient number	IDW13		Quantity	5PCS each		Testing time	48H							
Material specification	Single side half and half electrolytic copper		Suppliers	Yu Sheng		Reference standard	MIL-SDT-202Method017IEC60749-25 JEDEC JESD22-A104-B IEC68-2-1MIL-STD-2168-85							
Test purpose: To test the reliability of the product and the binding force of the coating, the oxidation resistance and corrosion resistance of the coating.														
Name of equipment: high and low temperature test box														
Laboratory environment														
Temperature	22 to 26 °C		Relative humidity	65-75%		Atmospheric pressure	1MPA							
Test parameters														
Temperature	High temperature		80 °C	Low temperature	-40C		Temperature tolerance	2 °C						
Time	Constant temperature	High temperature	0.30 H.	High temperature warming	10min		Notes	2. Low temperature cooling refers to falling from the set high temperature to the set low temperature						
		Low temperature	0.30 H.	Low temperature cooling	10min									
Number of cycles	32 cycles		Other	Relative humidity	95%									
Inspection of appearance	Layering	ACC	Oxidation	ACC	Blistering	ACC	Peeling ink	ACC						
Testing	Peel resistance	Acuity 0.8 KGF/cm2	Spot welding	ACC	Hundred-cell test	ACC	Wear resistance	ACC						
Test record:														
Product No.		Product test results					Decision							
		After the end of the experiment, the product has no warping, no rubber overflow.					ACC							
Chung Producer: Qiu-hung					Confirmed: Feng Jiwu									

Shenzhen Yusheng Communication Equipment Co., LTD

Salt spray test report

Client:	Aidu	Model number: IDW13
Sample condition	Number of samples: 5PCS	
	Material: single side half and half electrolytic copper	Coating: Gold plating

The start time of the experiment: a total of 48 hours from 09/25 on December 05, 2022 to 09/25 on December 07, 2022

Types of experiments	<input checked="" type="checkbox"/> NSS <input type="checkbox"/> ASS <input type="checkbox"/> CASS	
Experimental conditions	Salt solution: 5%	PH: 7.0
	Temperature in box 35·C	Relative humidity: 85%°C
	Spray method: <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> intermittent	Compressed air pressure: 1kg/ square meter
	Salt spray settlement rate:	Mist collection: PH7.0anc
	Experiment period: 1-- cycle	Spray time: 48H
		Placement time: 2H
Observe results every 16 hours	The test temperature was: 36°C	The pressure barrel temperature is: 47.5°C
Experimental results	Appearance after experiment: appearance intact and undamaged, no obvious changes	
	Coating: No peeling, no rust	
	Surface spraying, screen printing: no shedding, no bubbles	
Producer:	Chung Qiu-hung	Confirmed: Feng Jiwu

## Packing

Aidu Material Number:		Product Name:	
Product Specifications:		Packing material:	Cardboard boxes/waterproof bags
Number of packages:	Subject to actual conditions	Packing method:	Semi-sticky process shipping
Packing quantity:	Maximum quantity in a box: 10000PCS		

Figure 1: Single package (semi-sticky process full plate shipment)



Figure 2: Packing method (2000/ pack label in small package)

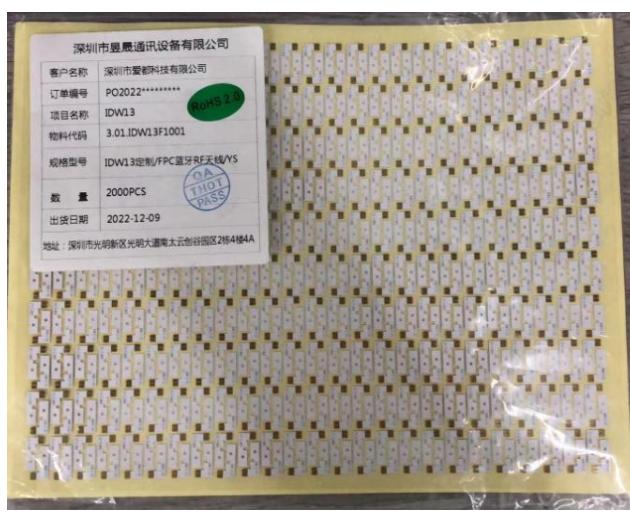


Figure 3: View of packing box (front, side, top)

Figure 4: Outer box label 100\*100mm



深圳市昱晟通讯设备有限公司	
客户名称	深圳市爱都科技有限公司
订单编号	PO2022*****
项目名称	IDW13
物料代码	3.01.IDW13F1001
规格型号	IDW13定制/FPC蓝牙RF天线/YS
数量	2000PCS
出货日期	2022-12-09
地址: 深圳市光明新区光明大道南太云创谷园区2栋4楼4A	

Remarks: (Fill in the name and quantity of materials used in packing in the remarks column)

Materials used: covering mold/waterproof bag/carton

Quantity: The quantity used depends on the order quantity

Zhong QiuHong

Review:

Feng Jiwu

QF-QMP-QA01-01