

SPECIFICATION APPROVAL SHEET

Sample Confirmation Letter

Feitian Chengxin Technology Co., Ltd



Project Name: **F600**

Material Code: **01.02.021.000043**

Supplier: ZhejiangHaitongCommunication
Electronics Co., LTD

Delivery time: **2025.01.09**

Version: **V1.0**

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quality	Material name		antenna		Description		F600/ Structure/Main antenna/No connection cable																				
	P\N		01.02.021.000043		MPN		B.1.01.L.0731																				
	Vendor		ZhejiangHaitongCommunicationElectronics Co., Ltd		Manufacturer		ZhejiangHaitongCommunication Electronics Co., Ltd																				
	Sample QTY		6PCS		Model		F600																				
	Address		Zhejiang Haitong Communication Electronics Co., Ltd																								
	RoHS		☐ FA, ☐ REJ, ☐ N/A,		Information complete		☐ FA, ☐ REJ, ☐ N/A,																				
	Consistency		☐ FA, ☐ REJ, ☐ N/A,																								
	Result: ☐ FA, ☐ Risk Go QTY_____, ☐ REJ. Risk go or reject comment: SQE: Remark: Appearance limit sample is confirmed by SQE and PQE together.																										
PQM	Test report		☐ FA, ☐ REJ, ☐ N/A,		OTR confirm		☐ FA, ☐ REJ, ☐ N/A,																				
	Test report		☐ FA, ☐ REJ, ☐ N/A,		Design Fix		☐ FA, ☐ REJ, ☐ N/A,																				
	Result: ☐ FA, ☐ Risk Go QTY_____, ☐ REJ.																										
	Risk go or reject comment: PQM:																										
R&D	Dimension		☐ FA, ☐ REJ, ☐ N/A,		Specification		☐ FA, ☐ REJ, ☐ N/A,																				
	Function		☐ FA, ☐ REJ, ☐ N/A,		Color		☐ FA, ☐ REJ, ☐ N/A,																				
	Manual content		☐ FA, ☐ REJ, ☐ N/A,		Appearance		☐ FA, ☐ REJ, ☐ N/A,																				
	Packing		☐ FA, ☐ REJ, ☐ N/A,		Safety certificate		☐ FA, ☐ REJ, ☐ N/A,																				
	Result: ☐ FA, ☐ Risk Go QTY_____, ☐ REJ.																										
	Risk go or reject comment:																										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Confirmer</td> <td>ID</td> <td>PCAKING</td> <td>ME</td> <td>HW</td> <td>SW</td> <td>DEVICE</td> <td>Approval</td> <td>Manager</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>									Confirmer	ID	PCAKING	ME	HW	SW	DEVICE	Approval	Manager									
	Confirmer	ID	PCAKING	ME	HW	SW	DEVICE	Approval	Manager																		
	Note: the color, appearance and color limit samples of the structural parts shall be confirmed by ID representative. The contents of the specification shall be confirmed by software and packaging material representative together, and the packaging material representative shall confirm the packaging material. The structure material is confirmed by structure representative, the structure electronic material is confirmed by structure and hardware representative. The electronic material is confirmed by hardware representative. Device expert and software is responsible for the confirmation of corresponding devices, such as battery, camera, screen etc.																										
Important inspection items (R&D comment)							☐ N/A,																				
NO.	Key inspection item			Standard request		Confirmer		remark																			
vendor	Stamp			Quality confirm		RD redact																					
Note: FA means receiving. REJ means rejecting. N/A means not applicable;																											

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PRODUCT BASIC INFORMATION FORM (1-9)

Supplement when appropriate:

1) VENDOR NAME \PRODUCT NAME

Zhejiang Haitong Communication Electronics Co., Ltd\BJ0357-F600-MAIN

2) PRODUCT DESCRIPTION :

BJ0357_MAIN_A

3) P\N :

01.02.021.000043

4) VENDOR P\N :

B.1.01.L.0731

5) MANUFACTURER P\N :

B.1.01.L.0731

6) FIRST UES PHONE MODEL \ VERSION :

F600\A

7) ENVIRONMENTAL CONFORMANCE:

RoHS ☒ **HF** ☒ **REACH** ☒ **OTHER :** _____.

8) PRODUCT SHELF LIFE AND STORAGE CONDITION:

1.Storage conditions: temperature: 17 ° C - 23 ° C, humidity: 55 rh - 65 rh (2) stored in low temperature, low humidity, no corrosive gas environment.Please use it within one week after opening the package.

2.Product shelf life: 12 months

9) ADDRESS OF MANUFACTURING SITE:

Zhejiang Haitong Communication Electronics Co., Ltd

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Sample Confirmation Letter

edition	Acknowledge the change	Alteration party	date
V1.0	First edition	Lin Fang	2025/1/9
V2.0			
V3.0			

Product Dimension Inspection Report																			
Description		BJ0357		Revision		BJ0357_MAIN_FPC / A板				Date				2025.1.9					
Sample status		batch		technology		FPC				temperature and humidity		25C°55%				signature		Zhang Ling	
Testing Summary:		There are 6 key dimensions ≤80% in the drawing, 0 in early warning and 0 in > in 100%.														signature		Sun Wei	
		There are 7 pieces of general size ≤80% on the drawing, 0 pieces of early warning, and 0 pieces of > 100%.														signature		Zhang Baojian	
Drawing specifications					detection result					Detection information							Handling suggestions		Measurem ent
Size number	Size properties	Basic dimensions	Lower tolerance	upper tolerance	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Tolerance range determination				Maximum deviation reference			Suppli er Qualit y Contro	Customer Comment	
										≤50%	≤80%	early warning	>100%	Worst data	Toleran ce percent	Exceed ing the			
1	★	60.52	-0.15	0.15	60.59	60.48	60.52	60.51	60.47	√				60.590	47%				C
2	★	15.65	-0.15	0.15	15.62	15.60	15.62	15.59	15.66	√				15.600	33%				C
3		1.30	-0.10	0.10	1.30	1.30	1.30	1.30	1.30		√			1.300	0%				C
4		0.12	-0.03	0.03	0.12	0.12	0.12	0.12	0.12		√			0.120	0%				C
5		1.10	-0.10	0.10	1.10	1.10	1.10	1.10	1.10		√			1.100	0%				C
6		1.10	-0.10	0.10	1.10	1.10	1.10	1.10	1.10		√			1.100	0%				C
7		1.46	-0.30	0.30	1.47	1.48	1.41	1.34	1.35		√			1.410	17%				C
8		2.62	-0.30	0.30	2.49	2.59	2.51	2.55	2.68		√			1.480	80%				C
notes:																			
4、Instructions for using measuring tool codes: C: 2D ★: keynote																			

CPK Report

Part Number	01. 02. 021. 000043		Vendor	haitong	
Description	BJ0357_MAIN_FPC		Inspected	Zhang Baojian	
Tool Number	/		Inches/MM	mm	
Cavity	/		Material Name	/	
			Material Code	PI	
Revision	A		Date	22025.1.9	
Dim.Designator	FAI 1	FAI 2	FAI 3	FAI4	FAI5
Nominal	60.52	15.65			
+ Tolerance	0.15	0.15			
- Tolerance	-0.15	-0.15			
Upper Limit	60.67	15.80			
Lower Limi	60.37	15.50			
1	60.54	15.61			
2	60.51	15.66			
3	60.49	15.7			
4	60.52	15.64			
5	60.56	15.6			
6	60.5	15.65			
7	60.5	15.65			
8	60.53	15.63			
9	60.46	15.6			
10	60.47	15.61			
11	60.47	15.62			
12	60.47	15.64			
13	60.56	15.68			
14	60.47	15.64			
15	60.48	15.63			
16	60.51	15.6			
17	60.49	15.61			
18	60.52	15.63			
19	60.52	15.61			
20	60.57	15.62			
21	60.47	15.65			
22	60.52	15.61			
23	60.49	15.6			
24	60.49	15.66			
25	60.5	15.67			
26	60.55	15.62			
27	60.46	15.63			
28	60.54	15.71			
29	60.49	15.65			
30	60.53	15.62			
31	60.55	15.69			
32	60.58	15.66			
MAX.	60.58	15.71			
MIN.	60.46	15.60			
AVERAGE	60.51	15.64			
STDEV	0.03	0.03			
CP	1.47	1.67			
Cpk	1.37	1.53			
TOOLING	2D	2D			

Reliability Test Report

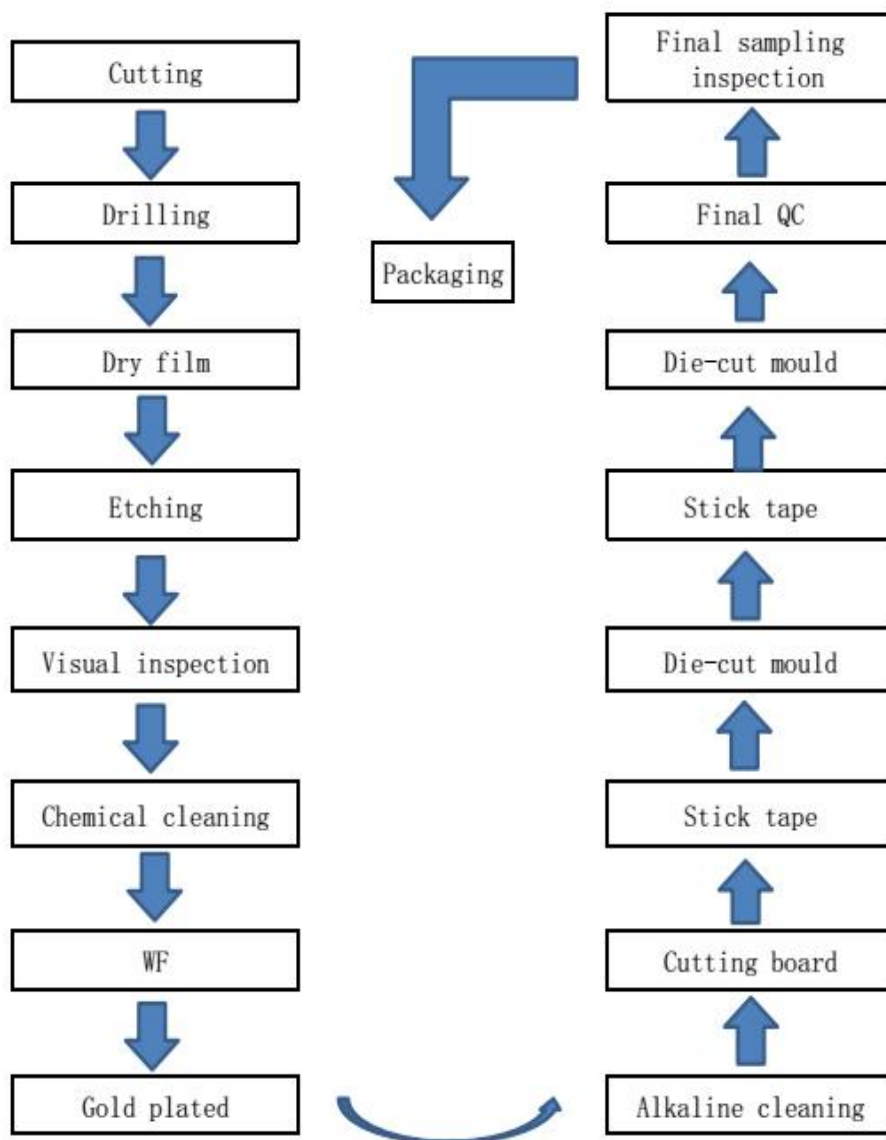
Customer	Feitian Integrity	Written By	Zhang Ling		Date	2025. 1. 9
Part Number	01. 02. 021. 000043	Revised By	Sun Wei		Revised Date	2025. 1. 9
Description	BJ0357_MAIN_FPC	Approved By	Zhang Baojian		Approved Date	2025. 1. 9
Date: 2025/1/6			Experimental code: 20250106002			
Experimental methods: Salt spray test			Experimental Standards: CB/T101251997			
Customer: Feitian Integrity						
sample	Description	BJ0357_MAIN_FPC	Plating Thickness		Ni	Au
	technology	FPC			2-8um	≥0. 03um
	Appearance before experiment	OK	number	7 PCS		
experimental condition	Date: 6日 11时 至8日 11时					
	spray time: 48小时		Moisturizing time: 48 小时			
	Laboratory temperature: 35℃±2℃		Pressure bucket temperature: 46℃±2℃			
	Laboratory relative humidity: 65%—75%		atmos: 101-02KPA			
	nacl concentration: 5%±0. 5%		ph value: 6. 5-7. 2 (中性)			
Experimental Description	Appearance after experiment	Normal appearance, no obvious corrosion phenomenon				
	Appearance after removing corrosion products	Normal appearance				
experimental result	OK					
notes						

ected: Zhang Baojian

Written By: Zhang Ling

process flow diagram

Part Number:	01.02.021.000043	Written By:	Lin fang	Creation Date:	2025.1.9
Revision	BJ0357_MAIN_FPC	Inspected:	Lin Haifeng	Approved Date:	2025.1.9



The above process does not include inspection of each process

Packing

general requirements:

- 1. Please provide the customer name, project name, and model number
- 2. Picture description of the inner and outer boxes, packaging method at the time of shipment.
- 3. Fill in the name and quantity of the materials used for packaging in the remarks column

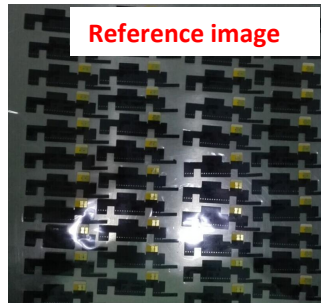


Figure 1: Inspection of OK products on PE film



Figure 2: Each 1000PCS is packed into a large PE bag and labeled with material labels.



Figure 3: After labeling, neatly place the large PE



Figure 4: After being packed into cardboard boxes according to the shipment quantity, the boxes are sealed and labeled with outer box labels such as month and

Product material no:	01.02.021.000043
The product name:	BJ0357_MAIN_FPC
Product version:	A
The packing way:	PE film packaging
each layer	1000PCS/bag
Outer box	1000PCS/bag neatly placed in the cardboard box, confirm the quantity is OK, seal the box, and label the outer box.
1.Storage conditions: temperature: 17 ° C - 23 ° C, humidity: 55 rh - 65 rh (2) stored in low temperature, low humidity, no corrosive gas environment.Please use it within one week after opening the package.	
The pictures are for reference only, subject to actual shipment.	
Usage period: June	



Restricted Substance Composition Survey Form

Supplier (Agent): Zhejiang Haitong Communication Electronics Co., Ltd

Product information provided				
The product name	Product name	Supplier material part number	manufacturer	Green Material Identification
01.02.021.000043	BJ0357_MAIN_FPC	B. 1. 01. L. 0731	Haitong	RoHS+HF

Product composition information														
Material Number	Component Name	Part number	weight/g	Third party testing report		Restricted substance content PPM								notes
				date	number	Pb	Cd	Hg	Cr ⁶⁺	PBB	PBDE	Br	Cl	
1	FPC	Substrate Industry	0.060	2022.06.17	A2220205292201001E	○	○	○	○	○	○	○	87	BJ0357
		Gold plated Yushu		2021.09.10	A2210362801101C	○	○	○	○	○	○	○	177	
		Text by Yuki Kawakami		2021.10.29	ETR21A04957M01	○	○	○	○	○	○	○	625	
		Solder mask Youli		2021.09.06	ETR21805816 ETR21805824	○	○	○	○	○	○	○	434	
		Adhesive backing 3M467		2021.09.04	HAEC2118728901 SHAEC2118728903	○	○	○	○	○	○	○	136	

- Note:

1. Please use ○ and X to indicate whether the content of the six restricted substances is compliant or not; Compliant individuals are represented by ○; Non compliance is represented by X; Not involving NA representation.

2. PPM limit value: Cadmium<100PPM; Lead/mercury/hexavalent chromium/PBB/PBDE<1000PPM.

3. The total amount of lead, hexavalent chromium, mercury, and cadmium in packaging materials shall not exceed 100ppm.

4、Br<900PPM; Cl<900PPM; Br+Cl<1500PPM

4. Please have the supplier fill out this form completely and stamp it; (Provide stamped paper or scanned PDF file)

5. If the limited use substance exceeds the standard but meets the exemption clause, please specify in the remarks.

6. The validity period of the third-party testing report is one year



OQC Report

Document Number : HT-FM-PZ043 VERSION : A/1

					number :		Q20250109002		
custom	Feitian Integrity		Revision	antenna	number	65	Order No	POORD2025010975508	
custom code	01.02.021.000043		Production Batch	N20250109002	shipping date	2025/1/9		VERSION	A
Sampling plan	MIL-STD-105E				Inspection level	II AQL=0.4			
Serial Number	Inspection items	Testing method		standard	Sampling number	Acceptable quantity of defective products	Tested number of defective products	determine OK/NG	
1	structure	Visual inspection		The structure of the product conforms to the requirements of the drawing	13	0	0	OK	
2	appearance	Visual inspection		According to the inspection reference book	13	0	0	OK	
3	package	Visual inspection		Consistent with packaging specifications	Complete inspection	0	0	OK	
4	Size specification(mm)	+deviation	-deviation	Some of the actual measurements					determineOK/NG
5	60.52	0.15	0.15	60.59	60.48	60.52	60.51	60.47	OK
6	15.65	0.15	0.15	15.62	15.60	15.62	15.59	15.66	OK
determine (OK/NG)		OK							
manufacture :	Zhang Xingfeng		verify : Zhang Baojian						

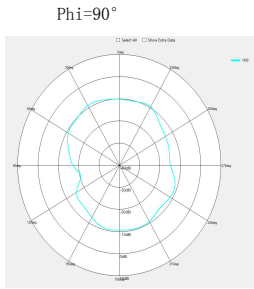
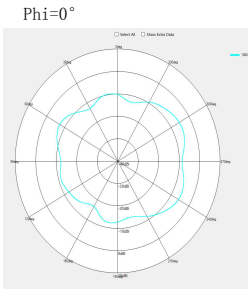
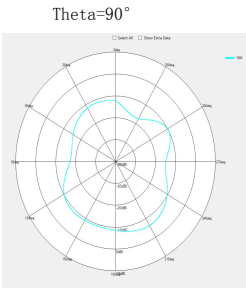
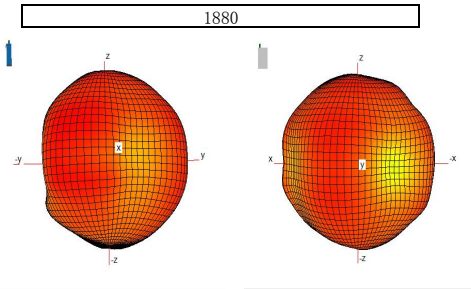
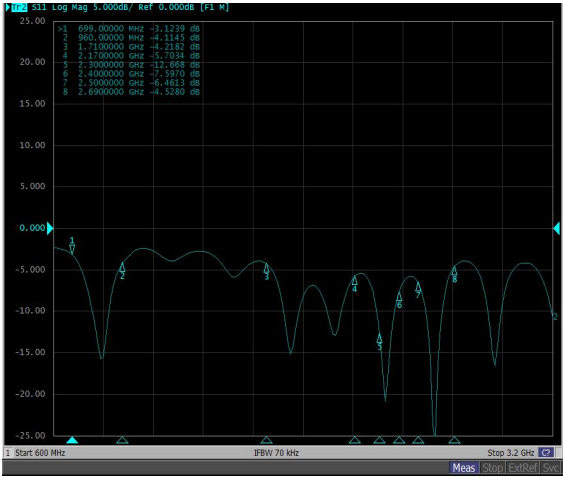
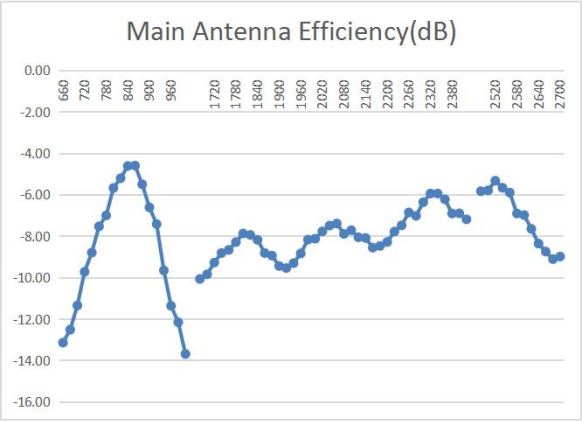
Material Declaration Form

P/N	Part Name	Homogeneous Material Name	Material model	Raw Material Manufacturer Name	Hazardous Substances Concentration in Homogeneous Material (UoM:ppm)												Test LAB.	Test Report No. of Hazardous Material	Test Date	Test Report Attachment	MSDS Attachment	
					Pb	Cd	Hg	Cr ⁶⁺	PBBS	PBDE	DEHP	DBP	BBP	DIBP	Br	Cl						
01.02.021.000045	BJ0357_DIV_FPC	Base material	A pair of half single-	Regular occupation	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	87	CTI	A2220205292201001E	2022年6月22日	 295. (8888) 4 465.0828394	 884 MSDS.pdf		
		Rubber backing	3M467	3M	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	136	SGS	SHAEC2118728903 SHAEC2118728901	2021年9月4日	 2470.525-467M 2470.525-467M 2470.525-467M	 468.467 MSDS 2021-9-4.pdf	
		Solder resist	PSM-800FSMBL6	unital	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	434	SGS	ETR21805824 ETR22404287	2022年4月26日	 ETR22404287 97451(蓝色).pdf	 ETR2180582488 蓝色系列.pdf	 ETR22404287 蓝色系列.pdf
		Text	ZSR-150	Kawayu	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	625	SGS	ETR21A04957M01	2021/10/29	 ETR21A04957M 91110906296-6	 20190322-225.2 94-150 蓝色系列	 1. 蓝色系列/MSDS.pdf
		Surface treatment	electrogilding	Yushun	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	177	CTI	A2210365801101C	2021/9/10	 平銀鍍金線 4271030801101	 FPC手摺 鍍金線用 MSDS	

f the material needs to be changed, the PCN application must be submitted, and the change can only be made after it is acknowledged. Test reports and MSDS must be provided. Halogen-free materials must provide a halogen test report.

Supplier representative: Zhang Baojian (signature and seal)

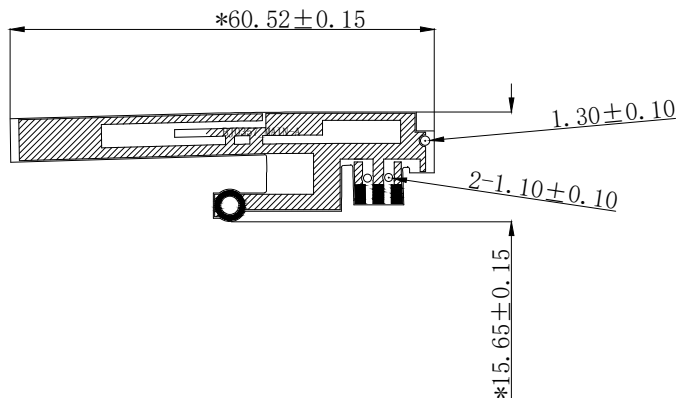
Frequency	Efficiency (dB)	Gain (dBi)
660	-13.13	-9.02
680	-12.51	-6.83
700	-11.34	-5.70
720	-9.71	-4.42
740	-8.78	-3.27
760	-7.52	-1.74
780	-6.99	-1.49
800	-5.67	-0.77
820	-5.20	0.10
840	-4.61	0.47
860	-4.59	0.32
880	-5.49	-0.27
900	-6.61	-1.01
920	-7.41	-1.85
940	-9.65	-4.91
960	-11.36	-5.23
980	-12.15	-7.94
1000	-13.68	-9.45
1680	-10.06	-5.43
1700	-9.84	-5.17
1720	-9.27	-4.63
1740	-8.81	-4.19
1760	-8.66	-3.71
1780	-8.28	-3.20
1800	-7.86	-2.76
1820	-7.94	-2.89
1840	-8.17	-2.83
1860	-8.81	-3.31
1880	-8.93	-3.12
1900	-9.44	-3.41
1920	-9.53	-3.14
1940	-9.30	-2.83
1960	-8.83	-2.15
1980	-8.16	-1.30
2000	-8.12	-2.40
2020	-7.76	-1.78
2040	-7.49	-1.51
2060	-7.38	-1.18
2080	-7.88	-1.47
2100	-7.71	-1.14
2120	-8.05	-1.68
2140	-8.08	-1.44
2160	-8.55	-1.65
2180	-8.47	-1.26
2200	-8.28	-1.03
2220	-7.77	-0.29
2240	-7.47	0.01
2260	-6.85	0.77
2280	-7.01	0.76
2300	-6.36	1.32
2320	-5.94	1.84
2340	-5.94	1.82
2360	-6.22	1.67
2380	-6.90	0.76
2400	-6.89	0.65
2420	-7.18	0.45
2480	-5.83	1.24
2500	-5.79	1.45
2520	-5.32	1.82
2540	-5.66	1.59
2560	-5.89	1.16
2580	-6.90	0.40
2600	-6.98	-0.20
2620	-7.64	-0.60
2640	-8.35	-1.45
2660	-8.74	-2.02
2680	-9.10	-2.35
2700	-8.98	-2.54



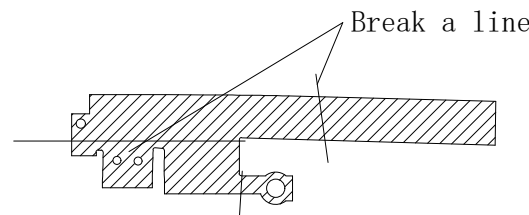
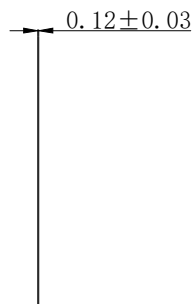


LAB ☒ QE ☐ OQC ☒ IPQC ☒ IQC ☐ 注塑 ☐ 冲压 ☒ 组装 ☒

N O .	DESCRIPTION	DESIGE	DATE
A	Mass production release zxt		2022.06.22



TOP



BOTTOM

Shipping method: single piece
of micromucous membrane
packaging

Technical requirements:

1. Reference drawing file of unknown size.
2. Material: reference drawing file.
3. Plating area: plating NI(2-8 μ m) first, plating AU $\geq$ 0.03 μ m later.
4. Part marking: specify the silk-screen printing position according to the drawing.
5. It is necessary to pass the FPC tests required by HAITONG quality department, and the salt spray test requires no oxidation on the surface of the product after 48H.
6. Size requirements:
6.1ST size: The size of any 35pcs selected from a minimum of 500pcs is measured for CPK analysis;
6.2 The size with "*" is the key control size.
7. First batch of items: Randomly select 5pcs for size measurement, report and transfer to HAITONG Quality Department.
8. Any modification of materials and drawings must be approved in writing by HAITONG R&D and Engineering Department.
9. The products meet the requirements of ROHS/HF/REACH.

7.Silk screen character	white	
6.Printing ink	black	15 μ m
5.ED copper	0.5 OZ	18 μ m
4.AD glue	/	20 μ m
3.PI	1 MIL	25 μ m
2.Double-sided tape	3M 467	50 μ m
1.Release film	/	100 μ m
LEVEL	DECRPTION	

NHAI 浙江海通通讯电子股份有限公司
ZHEJIANG HAITONG COMMUNICATIONS

PROJECT NAME: F600

PRODUCT NAME: NA

HT成品码: B.1.01.Y.0737

HT半成品码: NA

客户编码: NA

SCALE: 1:1 PAGE: 1/1 REV: A

UNIT: mm SIZE: A4 DRWING NO: BJ0357_MAIN-FPC

N O	T O L E R A N C E

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