

|   | Dat  | e: 2022/5/25   |                | HS Certificate<br>Green Partner |
|---|--|--|----------------|---------------------------------|
|   | Customer :   |  | Halogen-free   | Greenraither                    |
|   | TAI-TECH P/N: HF   | Z1608PF-601T20-HD  |                |                                 |
|   | CUSTOMER P/N:  |  |                |                                 |
|   | DESCRIPTION:   |  |                |                                 |
|   | QUANTITY:  | pcs  |                |                                 |
| RE  | MARK:  |  |                |                                 |
|   | Custome  | er Approval Feedback   |                |                                 |
|   | Custome  |  |                |                                 |
|   |  |  |                |                                 |
|   |  |  |                |                                 |
|   |  | 科 技 股 份 有 限 公<br>anced Electronics Co.,                              |                |                                 |
| TAI-TECH Advanced Elect<br><u>Headquarter:</u><br>NO.1 YOU 4TH ROAD, YOUTH IN   | <b>TAI-TECH Adv</b><br>키<br>stronics Co., Ltd<br>IDUSTRIAL DISTRICT, YANG-MEI,   |  |                |                                 |
| TAI-TECH Advanced Elect<br><u>Headquarter:</u><br>NO.1 YOU 4TH ROAD, YOUTH IN<br>TAO-YUAN HSIEN, TAIWAN, R.O.<br>TEL: +886-3-4641148 FAX: +88<br>http://www.tai-tech.com.tw   | 퍼.<br>한<br>tronics Co., Ltd<br>IDUSTRIAL DISTRICT, YANG-MEI,<br>.C.  | anced Electronics Co.,   |                |                                 |
| TAI-TECH Advanced Elec<br><u>Headquarter:</u><br>NO.1 YOU 4TH ROAD, YOUTH IN<br>TAO-YUAN HSIEN, TAIWAN, R.O.<br>TEL: +886-3-4641148 FAX: +88<br>http://www.tai-tech.com.tw<br>E-mail: sales@tai-tech.com.tw<br>]Office:   | 퍼.<br>한<br>tronics Co., Ltd<br>IDUSTRIAL DISTRICT, YANG-MEI,<br>.C.  | anced Electronics Co.,<br>Sales Dep.                                 | Ltd<br>CHECKED |                                 |
| TAI-TECH Advanced Elec<br><u>Headquarter:</u><br>NO.1 YOU 4TH ROAD, YOUTH IN<br>TAO-YUAN HSIEN, TAIWAN, R.O.<br>TEL: +886-3-4641148 FAX: +88<br>http://www.tai-tech.com.tw<br>E-mail: sales@tai-tech.com.tw<br>]Office:<br>深圳辦公室<br>11BC,Building B Fortune Plaza,N<br>District Shenzhen  | TAI-TECH Adv<br>로<br>tronics Co., Ltd<br>IDUSTRIAL DISTRICT, YANG-MEI,<br>.C.<br>36-3-4643565<br>IO.7002, Shennan Avenue, Futian | anced Electronics Co.,<br>Sales Dep.                                 | <u>Ltd</u>     |                                 |
| TAI-TECH Advanced Elect<br><u>Headquarter:</u><br>NO.1 YOU 4TH ROAD, YOUTH IN<br>TAO-YUAN HSIEN, TAIWAN, R.O.<br>TEL: +886-3-4641148 FAX: +88<br>http://www.tai-tech.com.tw<br>E-mail: sales@tai-tech.com.tw<br>]Office:<br>深圳辦公室<br>11BC, Building B Fortune Plaza, N<br>District Shenzhen<br>TEL: +86-755-23972371 FAX: +<br>I臺慶精密電子(昆山)有限公<br>TAI-TECH ADVANCED ELEC | TAI-TECH Adv<br>되<br>stronics Co., Ltd<br>IDUSTRIAL DISTRICT, YANG-MEI,<br>.C.<br>36-3-4643565                                   | anced Electronics Co.,<br>Sales Dep.<br>APPROVED<br>管哲頎<br>Eric Guan | Ltd<br>CHECKED |                                 |
| Headquarter:<br>NO.1 YOU 4TH ROAD, YOUTH IN<br>TAO-YUAN HSIEN, TAIWAN, R.O.<br>TEL: +886-3-4641148 FAX: +88<br>http://www.tai-tech.com.tw<br>E-mail: sales@tai-tech.com.tw<br>]Office:<br>深圳辦公室<br>11BC,Building B Fortune Plaza,N<br>District Shenzhen<br>TEL: +86-755-23972371 FAX: +<br>I臺慶精密電子(昆山)有限公<br>TAI-TECH ADVANCED ELEC                                     | TAI-TECH Adv   | anced Electronics Co.,<br>Sales Dep.<br>APPROVED<br>管哲頎<br>Eric Guan | Ltd<br>CHECKED | DRAWN                           |

### TAI-TECH

# High Current Ferrite Chip Bead(Lead Free)

HFZ1608PF-601T20-HD

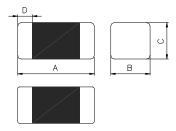
|     |          | ECN HISTORY LIST |          |         |       |  |  |
|-----|----------|------------------|----------|---------|-------|--|--|
| REV | DATE     | DESCRIPTION      | APPROVED | CHECKED | DRAWN |  |  |
| 1.0 | 21/08/19 | 新版發行             | 楊祥忠      | 詹偉特     | 張嘉玲   |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
|     |          |                  |          |         |       |  |  |
| 備   |          |                  |          |         |       |  |  |
| 註   |          |                  |          |         |       |  |  |

### High Current Ferrite Chip Bead(Lead Free) HFZ1608PF-601T20-HD

### 1. Features

- 1. Monolithic inorganic material construction.
- 2. Closed magnetic circuit avoids crosstalk.
- 3. Suitable for reflow soldering.
- 4. Shapes and dimensions follow E.I.A. spec.
- 5. High Current Bead Low RDC
- 6. Excellent solder ability and heat resistance.
- 7. High reliability.
- 8. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 9. Low DC resistance structure of electrode to prevent wasteful electric power consumption.
- 10. Operating Temperature : -55~+125°C (Including self-temperature rise)

### 2. Dimensions



| Chip Size |           |  |  |  |
|-----------|-----------|--|--|--|
| Α         | 1.60±0.15 |  |  |  |
| В         | 0.80±0.15 |  |  |  |
| С         | 0.80±0.15 |  |  |  |
| D         | 0.30±0.20 |  |  |  |
|           | •         |  |  |  |

Units: mm

### 3. Part Numbering



Termination (Pb Free) Ag(100%) Ni(100%)-1.5um (min.) Sn(100%)-3.5um (min.) Ferrite Body (Pb Free)

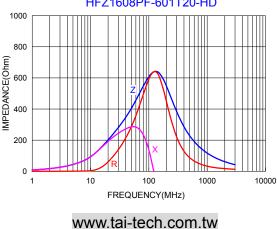
### 4. Specification

| Tai-Tech            | Impedance | Test Frequency | DC Resistance | Rated Current |
|---------------------|-----------|----------------|---------------|---------------|
| Part Number         | (Ω)       | (MHz)          | (Ω) max.      | (mA) max.     |
| HFZ1608PF-601T20-HD | 600±25%   | 100            | 0.095         | 2000          |

Rated current: based on temperature rise test

In compliance with EIA 595

Impedance-Frequency Characteristics



#### HFZ1608PF-601T20-HD

Downloaded From Oneyac.com



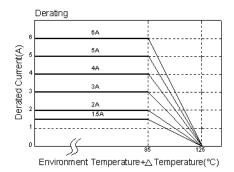
### 5. Reliability and Test Condition

| Item                                  | Performance  |  | Те  | st Con                                     | dition  |                                  |
|---------------------------------------|--|--|---|--|---|----------------------------------|
| Series No.                            | HFZ  |  |   |  |   |                                  |
| Operating Temperature                 | -55~+125℃<br>(Including self-temperature rise)   |  |   |  |   |                                  |
| Transportation<br>Storage Temperature | -55~+125℃<br>(on board)  | For long storage conditions, please s<br>Application Notice  |   |  |   |                                  |
| Impedance (Z)                         |  | Agilent4<br>Agilent E<br>Agilent4  | E4991<br>287  |  |   |                                  |
| DC Resistance                         | Refer to standard electrical characteristics list  | Agilent1   |   |  |   |                                  |
| Do Resistance                         | -  | Agilent 4<br>DC Pow  |   | lv   |   |                                  |
| Rated Current                         |  |  | ted Curr  |  | rements, the  | ere will be                      |
| Temperature Rise Test                 | Rated Current < 1A ΔT 20℃Max<br>Rated Current ≧ 1A ΔT 40℃Max   | 2. Tempe   |   |  | current.<br>by digital si                               | urface                           |
| Life test                             |  | times.( II<br>Reflow F<br>Tempera<br>Applied<br>Duration   | PC/JED<br>Profiles)<br>ature: 12<br>current:<br>a: 1000±<br>ed at roo | EC J-STE<br>25±2°C<br>rated curr<br>12hrs. | ugh IR reflox<br>0-020E Clas<br>rent.<br>rature after p | sification                       |
| Load Humidity                         | <ul> <li>Appearance: no damage.</li> <li>Impedance: within±15% of initial value.</li> <li>RDC : within ±15% of initial value and shall not exceed the specification value</li> </ul> | Preconditioning: Run through IR reflow for 3<br>times.(IPC/JEDEC J-STD-020E Classification<br>Reflow Profiles)<br>Humidity: 85±2%R.H.<br>Temperature: 85±2°C .<br>Duration:1000hrsMin.<br>Bead:with100%ratedcurrent<br>Inductance: with 10% rated current<br>Measured at room temperature after placing<br>for 24±2 hrs.     |   |  | sification  |                                  |
| Thermal shock                         | Appearance: no damage.<br>Impedance: within±15%of initial value.<br>RDC : within ±15% of initial value and shall not exceed the specification value                                  | Preconditioning: Run through IR reflow for 3<br>times. (IPC/JEDEC J-STD-020E Classification<br>Reflow Profiles)<br>Condition for 1 cycle<br>Step1: $-55\pm2^{\circ}$ C $30\pm5$ min.<br>Step2: $125\pm2^{\circ}$ C $30\pm5$ min.<br>Number of cycles: $500$<br>Measured at room temperature after placing<br>for 24\pm2 hrs. |   |  | sification  |                                  |
| Vibration                             | Appearance : No damage.<br>Impedance : within±15% of initial value<br>RDC : within ±15% of initial value and shall not exceed the specification value                                | Preconditioning: Run through IR reflow for 3<br>times.( IPC/JEDEC J-STD-020E Classification<br>Reflow Profiles)<br>Oscillation Frequency:10Hz~2KHz~10Hz for<br>20 minutes<br>Equipment : Vibration checker<br>Total Amplitude:10g<br>Testing Time : 12 hours(20 minutes, 12 cycles<br>each of 3 orientations) °              |   |  |   |                                  |
| Bending                               | Appearance : No damage.<br>Impedance : within±10% of initial value<br>RDC : within ±15% of initial value and shall not exceed the specification value                                | Shall be mounted on a FR4 substrate of the<br>following dimensions:<br>>=0805inch(2012mm):40x100x1.2mm<br><0805inch(2012mm):40x100x0.8mm<br>Bending depth:<br>>=0805inch(2012mm):1.2mm<br><0805inch(2012mm):0.8mm<br>Duration of 10 sec for a min.   |   |  |   |                                  |
|                                       |  | Test co  | ndition   | :  |   |                                  |
| Shock                                 | Appearance:No damage.<br>Impedance:within±10% of initial value   | Туре   | Peak<br>Value<br>(g's)  | Normal<br>duration<br>(D) (ms)             | Wave form   | Velocity<br>change<br>(Vi)ft/sec |
|                                       | RDC : within ±15% of initial value and shall not exceed the specification value  | SMD  | 50  | 11   | Half-sine   | 11.3                             |
|                                       |  | Lead   | 50  | 11   | Half-sine   | 11.3                             |

| ltem                    | Performance   | Test Condition  |  |  |
|-------------------------|---|---|--|--|
| Solderability           | More than 95% of the terminal electrode should be covered with solder.  | a.Method B, 4 hrs @155°C dry heat<br>@235°C±5°C Test time:5 +0/-0.5 seconds.<br>b. Method D category 3. (steam aging 8hours<br>± 15 min)@ 260°C±5°C<br>Test time: 30 +0/-0.5 seconds.   |  |  |
|                         |   | Number of heat cycles: 1  |  |  |
| Resistance to Soldering | Appearance : No damage.   | Temperature<br>(°C) Time<br>(s) Temperature<br>ramp/immersion<br>and emersion rate  |  |  |
| Heat                    | Impedance : within±15% of initial value<br>RDC : within ±15% of initial value and shall not exceed the specification value                              | 260 ±5<br>(solder temp) 10 ±1 25mm/s ±6 mm/s  |  |  |
|                         |   | Depth: completely cover the termination   |  |  |
| Terminal strength       | Appearance : No damage.<br>Impedance : within±15% of initial value<br>RDC : within±15% of initial value and shall not<br>exceed the specification value | Preconditioning: Run through IR reflow for 3<br>times. (IPC/JEDEC J-STD-020E Classification<br>Reflow Profiles)<br>Component mounted on a PCB apply a force<br>>0805inch(2012mm):0.5kg<br>to the side of a device being tested. This force<br>shall be applied for 60 +1 seconds. Also the<br>force shall be applied gradually as not to shock<br>the component being tested. |  |  |

#### \*\*Derating Curve

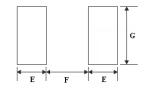
For the ferrite chip bead which withstanding current over 1.5A, as the operating temperature over  $85^{\circ}$ C, the derating current information is necessary to consider with. For the detail derating of current, please refer to the Derated Current vs. Operating Temperature curve.



### 6. Soldering and Mounting

#### 6-1. Recommended PC Board Pattern

|        | Chip Size         |                       |                        |                        |                        |                   | Pattern<br>w Sold |                   |
|--------|-------------------|-----------------------|------------------------|------------------------|------------------------|-------------------|-------------------|-------------------|
| Series | Туре              | A(mm)                 | B(mm)                  | C(mm)                  | D(mm)                  | E(mm)             | F(mm)             | G(mm)             |
|        | 1005              | 1.0±0.10              | 0.50±0.10              | 0.50±0.10              | 0.25±0.10              | 0.50              | 0.40              | 0.60              |
| HFZ    | <mark>1608</mark> | <mark>1.6±0.15</mark> | <mark>0.80±0.15</mark> | <mark>0.80±0.15</mark> | <mark>0.30±0.20</mark> | <mark>0.80</mark> | <mark>0.85</mark> | <mark>0.95</mark> |



PC board should be designed so that products can prevent damage from mechanical stress when warping the board.

#### 6-2. Soldering

Mildly activated rosin fluxes are preferred. TAI-TECH terminations are suitable for re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

#### **TAI-TECH**

Û

Temperature

#### 6-2.1 IR Soldering Reflow:

Recommended temperature profiles for lead free re-flow soldering in Figure 1. Table 1.1&1.2 (J-STD-020E)

#### 6-2.2 Soldering Iron:

Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended. (Figure 2.)

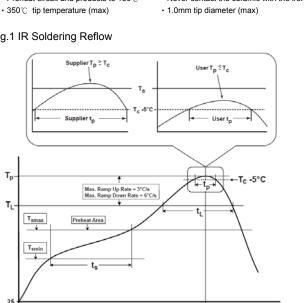
 $\,\cdot$  Preheat circuit and products to 150  $^\circ\!{\rm C}$ 

 $\boldsymbol{\cdot}$  Never contact the ceramic with the iron tip

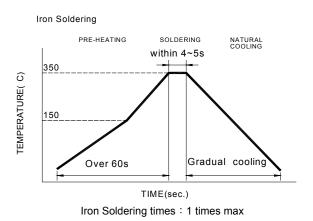
 Use a 20 watt soldering iron with tip diameter of 1.0mm Limit soldering time to 4~5sec.

Fig.2 Iron soldering temperature profiles





Time ⇒ Reflow times: 3 times max



#### Table (1.1): Reflow Profiles

Time 25°C to Peal

| Profile Type:  | Pb-Free Assembly              |
|--|-------------------------------|
| Preheat<br>-Temperature Min(T <sub>smin</sub> )<br>-Temperature Max(T <sub>smax</sub> )<br>-Time(t <sub>s</sub> )from(T <sub>smin</sub> to T <sub>smax</sub> ) | 150℃<br>200℃<br>60-120seconds |
| Ramp-up rate(T₋to T <sub>p</sub> )   | 3℃/second max.                |
| Liquidus temperature(T <sub>L</sub> ) Time(t <sub>L</sub> )maintained above T <sub>L</sub>   | 217℃<br>60-150 seconds        |
| Classification temperature( $T_c$ )  | See Table (1.2)               |
| $Time(t_p)$ at Tc- 5 $^\circ\!\mathrm{C}$ (Tp should be equal to or less than Tc.)   | < 30 seconds                  |
| Ramp-down rate( $T_p$ to $T_L$ )   | 6℃ /second max.               |
| Time 25℃ to peak temperature   | 8 minutes max.                |

Tp: maximum peak package body temperature, Tc: the classification temperature. For user (customer) Tp should be equal to or less than Tc.

#### Table (1.2) Package Thickness/Volume and Classification Temperature (T<sub>c</sub>)

|                  | Package<br>Thickness | Volume mm <sup>3</sup><br><350 | Volume mm <sup>3</sup><br>350-2000 | Volume mm <sup>3</sup><br>>2000 |
|------------------|----------------------|--------------------------------|------------------------------------|---------------------------------|
|                  | <1.6mm               | 260°C                          | 260°C                              | 260°C                           |
| PB-Free Assembly | 1.6-2.5mm            | 260°C                          | 250°C                              | 245°C                           |
|                  | ≥2.5mm               | 250°C                          | 245°C                              | 245°C                           |

Reflow is referred to standard IPC/JEDEC J-STD-020E .

#### 6-2.3 Solder Volume:

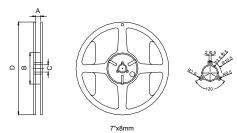
Accordingly increasing the solder volume, the mechanical stress to product is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance. Solder shall be used not to be exceed as shown in right side:

Minimum fillet height = soldering thickness + 25% product height



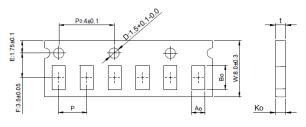
### 7. Packaging Information

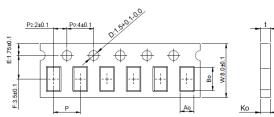
#### 7-1. Reel Dimension



#### 7-2.1 Tape Dimension / 8mm

■Material of taping is paper





Ko(mm)

0.60±0.03

P(mm)

2.0±0.05

t(mm)

0.60±0.03

Ao(mm)

0.62±0.03

B(mm)

60±2

A(mm)

9.0±0.5

Bo(mm)

1.12+0.03

Туре

7"x8mm

Size

100505

Room Temp.

(°C)

5~35

C(mm)

13.5±0.5

| Size                | Bo(mm)                 | Ao(mm)                 | Ko(mm)                 | P(mm)                 | t(mm)                  |
|---------------------|------------------------|------------------------|------------------------|-----------------------|------------------------|
| <mark>160808</mark> | <mark>1.90±0.05</mark> | <mark>1.10+0.05</mark> | <mark>0.95±0.05</mark> | <mark>4.0±0.10</mark> | <mark>0.95±0.05</mark> |

The force for tearing off cover tape is 15 to 60 grams in the arrow direction under the following conditions.

Room atm

(hPa)

860~1060

Tearing Speed

mm/min

300

Room Humidity

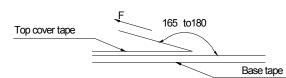
(%)

45~85

#### /-з. Packaging Quantity

| Chip Size   | <mark>160808</mark> | 100505 |
|-------------|---------------------|--------|
| Chip / Reel | <mark>4000</mark>   | 10000  |
| Inner box   | <mark>20000</mark>  | 50000  |
| Middle box  | <mark>100000</mark> | 250000 |
| Carton      | <mark>200000</mark> | 500000 |

#### 7-4. Tearing Off Force



### Application Notice

Storage Conditions(component level)

- To maintain the solder ability of terminal electrodes:
- 1. TAI-TECH products meet IPC/JEDEC J-STD-020E standard-MSL, level 1.
- 2. Temperature and humidity conditions: Less than 40  $^\circ\!\mathrm{C}$  and 60% RH.
- 3. Recommended products should be used within 12 months from the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.

#### Transportation

- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

D(mm)

178±2





# **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 1 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.) 臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.) 慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.) 桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.) 江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA) 中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE

中国・江源首・旧愛市・沼洪源・温清開致國初加固南國・建設式四米國(THE SOOTTHANGEHOU KOAD AND THE EAST JIANSHE ROAD · ECONOMIC DEVELOPMENT ZONE · SIHONG COUNTY · SUQIANCITY · JIANGSU PROVINCE · P,R · CHINA)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

| 樣品名稱(Sample Name)<br>樣品型號(Style/Item No.) | :                 | FERRITE CHIP BEAD 、FERRITE CHIP INDUCTOR 、ARRAY 、MCF 、MCM 、<br>YMV SERIES<br>FERRITE CHIP BEAD 、FERRITE CHIP INDUCTOR 、ARRAY 、MCF 、MCM 、<br>YMV SERIES |
|---|-------------------|--|
| =====================================     | =====<br>) :<br>; | 03-Dec-2021<br>03-Dec-2021 to 10-Dec-2021  |
| 測試需求(Test Requested) :                    |                   | 依據客戶要求進行測試,測試項目請參閱測試結果表格。 (Testing item(s)<br>is/are specified by client. Please refer to result table for testing item(s).)                           |
| 測試結果(Test Results)   :                    |                   | 請參閱下一頁 (Please refer to following pages.)  |

Troy Chang? Manager / Te Signed for and on behalf SĞS TAIWAN LTD. **Chemical Laboratory - Taipei** 



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/tems-of-service">https://www.sgs.com.tw/tems-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of clent's instruction, if any. The Company's sole responsibility is to its Clent and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

SG:

# **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 2 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.)

臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.)

江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)

#### 測試部位敘述 (Test Part Description)

No.1 : 整體混測 (MIXED ALL PARTS)

測試結果 (Test Results)

| 測試項目                                    | 測試方法                                      | 單位     | MDL | 結果       |
|---|---|--------|-----|----------|
| (Test Items)                            | (Method)                                  | (Unit) |     | (Result) |
|   |   |        |     | No.1     |
| 鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-   | 參考IEC 62321-5: 2013 · 以感應耦合電漿發射光          | mg/kg  | 2   | n.d.     |
| 43-9)                                   | 譜儀分析。(With reference to IEC 62321-5:      |        |     |          |
|   | 2013, analysis was performed by ICP-OES.) |        |     |          |
| 鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1) | 參考IEC 62321-5: 2013 · 以感應耦合電漿發射光          | mg/kg  | 2   | n.d.     |
|   | 譜儀分析。(With reference to IEC 62321-5:      |        |     |          |
|   | 2013, analysis was performed by ICP-OES.) |        |     |          |
| 汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-   | 參考IEC 62321-4: 2013+ AMD1: 2017,以感應耦      | mg/kg  | 2   | n.d.     |
| 97-6)                                   | 合電漿發射光譜儀分析。(With reference to IEC         |        |     |          |
|   | 62321-4: 2013+ AMD1: 2017, analysis was   |        |     |          |
|   | performed by ICP-OES.)                    |        |     |          |
| 六價鉻 Cr(VI) (Hexavalent Chromium         | 參考IEC 62321-7-2: 2017,以紫外光-可見光分光          | mg/kg  | 8   | n.d.     |
| Cr(VI)) (CAS No.: 18540-29-9)           | 光度計分析。(With reference to IEC 62321-7-2:   |        |     |          |
|   | 2017, analysis was performed by UV-VIS.)  |        |     |          |

SGS Taiwan Ltd. 台湾检验科技股份有限公司

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/tems-of-service">https://www.sgs.com.tw/tems-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/tems-of-service">https://www.sgs.com.tw/tems-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/tems-of-service">https://www.sgs.com.tw/tems-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/tems-of-service">https://www.sgs.com.tw/tems-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/tems-of-service">https://www.sgs.com.tw/tems-of-service</a> and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at <a href="https://www.sgs.com.tw/tems-of-service">https://www.sgs.com.tw/tems-of-service</a> and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at <a href="https://www.sgs.com.tw/tems-of-service">https://www.sgs.com.tw/tems-of-service</a> and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at <a href="https://www.sgs.com.tw/tems-of-service">https://www.sgs.com.tw/tems-of-service</a> and, for electronic format documents, subject to Terms and Conditions of Service of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document to envious at a service at a servi

SG:

### **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 3 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.)

臺慶精密電子(昆山)有限公司(TAI-TECH ADVANCED ELECTRONICS(KUN-SHAN)CO., LTD.)

慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.)

江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)

| 測試項目                             | 測試方法   | 單位     | MDL | 結果       |
|----------------------------------|--|--------|-----|----------|
| (Test Items)                     | (Method)   | (Unit) |     | (Result) |
|                                  |  |        |     | No.1     |
| 一溴聯苯 (Monobromobiphenyl)         |  | mg/kg  | 5   | n.d.     |
| 二溴聯苯 (Dibromobiphenyl)           |  | mg/kg  | 5   | n.d.     |
| 三溴聯苯 (Tribromobiphenyl)          |  | mg/kg  | 5   | n.d.     |
| 四溴聯苯 (Tetrabromobiphenyl)        |  | mg/kg  | 5   | n.d.     |
| 五溴聯苯 (Pentabromobiphenyl)        |  | mg/kg  | 5   | n.d.     |
| 六溴聯苯 (Hexabromobiphenyl)         |  | mg/kg  | 5   | n.d.     |
| 七溴聯苯 (Heptabromobiphenyl)        |  | mg/kg  | 5   | n.d.     |
| 八溴聯苯 (Octabromobiphenyl)         |  | mg/kg  | 5   | n.d.     |
| 九溴聯苯 (Nonabromobiphenyl)         |  | mg/kg  | 5   | n.d.     |
| 十溴聯苯 (Decabromobiphenyl)         | 參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分  | mg/kg  | 5   | n.d.     |
| 多溴聯苯總和 (Sum of PBBs)             | 参考IEC 02321-0. 2013・以来相信が 酸 頁 幅 酸 万<br>析。(With reference to IEC 62321-6: 2015, | mg/kg  | 1   | n.d.     |
| 一溴聯苯醚 (Monobromodiphenyl ether)  | analysis was performed by GC/MS.)  | mg/kg  | 5   | n.d.     |
| 二溴聯苯醚 (Dibromodiphenyl ether)    | analysis was performed by GC/M3.   | mg/kg  | 5   | n.d.     |
| 三溴聯苯醚 (Tribromodiphenyl ether)   |  | mg/kg  | 5   | n.d.     |
| 四溴聯苯醚 (Tetrabromodiphenyl ether) |  | mg/kg  | 5   | n.d.     |
| 五溴聯苯醚 (Pentabromodiphenyl ether) |  | mg/kg  | 5   | n.d.     |
| 六溴聯苯醚 (Hexabromodiphenyl ether)  |  | mg/kg  | 5   | n.d.     |
| 七溴聯苯醚 (Heptabromodiphenyl ether) |  | mg/kg  | 5   | n.d.     |
| 八溴聯苯醚 (Octabromodiphenyl ether)  |  | mg/kg  | 5   | n.d.     |
| 九溴聯苯醚 (Nonabromodiphenyl ether)  |  | mg/kg  | 5   | n.d.     |
| 十溴聯苯醚 (Decabromodiphenyl ether)  |  | mg/kg  | 5   | n.d.     |
| 多溴聯苯醚總和 (Sum of PBDEs)           |  | mg/kg  | -   | n.d.     |

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> Attention and jurisdiction lssues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of clent's instruction, if any. The Company's sole responsibility is to its Clent and this document does not exonerate partles to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiwan Ltd. 台湾检验科技股份有限公司

SG

# **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 4 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.)

臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.)

江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)

| 測試項目<br>(Test Items)  | 測試方法<br>(Method)   | 單位<br>(Unit) | MDL | 結果<br>(Result)<br>No.1 |
|---|--|--------------|-----|------------------------|
| 鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7)                       |  | mg/kg        | 50  | n.d.                   |
| 鄰苯二甲酸二丁酯 (DBP) (Dibutyl<br>phthalate (DBP)) (CAS No.: 84-74-2)                          |  | mg/kg        | 50  | n.d.                   |
| 鄰苯二甲酸二(2-乙基己基)酭 (DEHP) (Di-<br>(2-ethylhexyl) phthalate (DEHP)) (CAS<br>No.: 117-81-7)  |  | mg/kg        | 50  | n.d.                   |
| 鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl<br>phthalate (DIBP)) (CAS No.: 84-69-5)                    |  | mg/kg        | 50  | n.d.                   |
| 鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl<br>phthalate (DIDP)) (CAS No.: 26761-40-<br>0, 68515-49-1) | 参考IEC 62321-8:2017,以氣相層祈儀/買謂儀分<br>析。(With reference to IEC 62321-8:2017, | mg/kg        | 50  | n.d.                   |
| 鄰苯二甲酸二異壬酯 (DINP) (Diisononyl<br>phthalate (DINP)) (CAS No.: 28553-12-<br>0, 68515-48-0) | analysis was performed by GC/MS.)  | mg/kg        | 50  | n.d.                   |
| 鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl<br>phthalate (DNOP)) (CAS No.: 117-84-0)                   |  | mg/kg        | 50  | n.d.                   |
| 鄰苯二甲酸二正戊酯 (DNPP) (Di-n-<br>pentyl phthalate (DNPP)) (CAS No.:<br>131-18-0)              |  |              | 50  | n.d.                   |
| 鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl<br>phthalate (DNHP)) (CAS No.: 84-75-3)                    |  | mg/kg        | 50  | n.d.                   |

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, and Within the limits of client's Instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate paties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except In full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown In this test report refer only to the sample(s) tested

SGS Taiwan Ltd. 台湾檢驗科技股份有限公司

SG

# **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 5 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.)

臺慶精密電子(昆山)有限公司(TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.)

江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)

| 測試項目<br>(Test Items)   | 測試方法<br>(Method)   | 單位<br>(Unit) | MDL  | 結果<br>(Result)<br>No.1 |
|--|--|--------------|------|------------------------|
| 六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α- HBCDD, β- HBCDD, γ-<br>HBCDD) (Hexabromocyclododecane<br>(HBCDD) and all major<br>diastereoisomers identified (α- HBCDD,<br>β- HBCDD, γ- HBCDD)) (CAS No.:<br>25637-99-4, 3194-55-6 (134237-51-7,<br>134237-50-6, 134237-52-8)) | 參考IEC 62321-9: 2021,以氣相層析儀/質譜儀分<br>析。(With reference to IEC 62321-9: 2021,<br>analysis was performed by GC/MS.)      | mg/kg        | 20   | n.d.                   |
| 氟 (F) (Fluorine (F)) (CAS No.: 14762-94-<br>8)   |  | mg/kg        | 50   | n.d.                   |
| 氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-<br>15-1)   | 参考BS EN 14582: 2016 · 以離子層析儀分析。  | mg/kg        | 50   | n.d.                   |
| 溴 (Br) (Bromine (Br)) (CAS No.: 10097-<br>32-2)  | (With reference to BS EN 14582: 2016, analysis<br>was performed by IC.)  | mg/kg        | 50   | n.d.                   |
| 碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)   |  | mg/kg        | 50   | n.d.                   |
| 全氟辛烷磺酸及其鹽類 (PFOS and its<br>salts) (CAS No.: 1763-23-1 and its salts)  | 參考CEN/TS 15968: 2010.以液相層析串聯質譜<br>儀分析。(With reference to CEN/TS 15968:<br>2010, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.                   |
| 全氟辛酸及其鹽類 (PFOA and its salts)<br>(CAS No.: 335-67-1 and its salts)   | 参考CEN/TS 15968: 2010,以液相層析串聯質譜<br>儀分析。(With reference to CEN/TS 15968:<br>2010, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.                   |

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> isability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's inclings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not excercise parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faislitication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiwan Ltd. 台湾檢驗科技股份有限公司

SG

# **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 6 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.)

臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.)

江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)

| 測試項目<br>(Test Items)                             | 測試方法<br>(Method)  | 單位<br>(Unit) | MDL | 結果<br>(Result) |
|--|---|--------------|-----|----------------|
|  |   |              |     | No.1           |
| 聚氯乙烯 (Polyvinyl chloride) (PVC)                  | 参考ASTM E1252: 2013 · 以傅立葉轉換紅外線光<br>譜儀及焰色法分析。(With reference to ASTM<br>E1252: 2013, analysis was performed by FT-IR<br>and Flame Test.) | **           | -   | Negative       |
| 銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-<br>36-0)  | <u> </u>  | mg/kg        | 2   | n.d.           |
| 鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-<br>41-7) | 參考US EPA 3052: 1996,以感應耦合電漿發射光<br>譜儀分析。(With reference to US EPA 3052:  | mg/kg        | 2   | n.d.           |
| 砷 (As) (Arsenic (As)) (CAS No.: 7440-<br>38-2)   | 1996, analysis was performed by ICP-OES.)   | mg/kg        | 2   | n.d.           |

### 備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. \*\*= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 7. 全氟辛烷磺酸及其鹽類包含 (PFOS and its salts including):
- CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.
- 8. 全氟辛酸及其鹽類包含 (PFOA and its salts including):
  - CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
- 9. 樣品的測試是基於申請人要求混合測試,報告中的混合測試結果不代表其中個別單一材質的含量。 The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> liability, indemnification and jurisdiction is drawn to the limitation of isolation only and within the limits of clent's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate partles to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and olfenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS

### **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

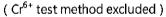
頁數(Page): 7 of 15

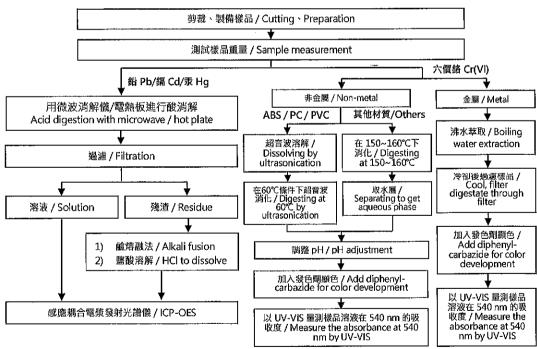
西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.) 臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.) 慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.) 桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.) 江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)

#### 重金屬流程圖 / Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.





This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> Itability, indemnification and jurisdiction is drawn to the limitation of Itability, indemnification and jurisdiction is used defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faislibility of faislibility of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refor only to the sample(s) tested.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

SG

### **Test Report**

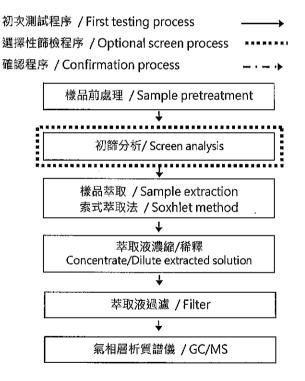
號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 8 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.) 臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.) 慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.) 桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.) 江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)

#### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction Issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

SG

### **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 9 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.)

臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

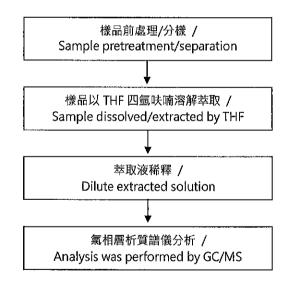
桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.)

江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿還市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)

#### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate partles to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SG

# **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 10 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.)

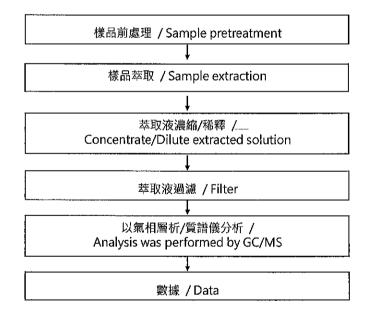
臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.)

江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)



六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> Attention is drawn to the limitation of liability, Indemnification and jurisdiction issues defined therein. Any holder of this document is advised that Information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's electronic be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS

# **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 11 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.)

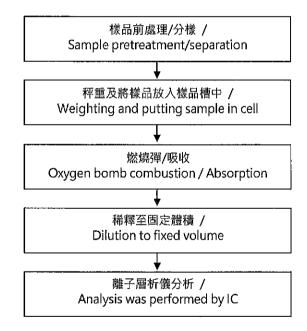
臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.)

江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)





SGS Taiwan Ltd. 台灣檢验科技股份有限公司

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of clent's instruction, if any. The Company's sole responsibility is to its Clent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

<u>SGS</u>

# **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 12 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.)

臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

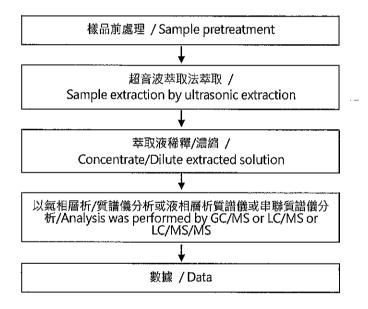
慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.)

江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)

# 全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> liability, Indemnification and jurisdiction is subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> liability, Indemnification and jurisdiction is subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> liability, Indemnification and Jurisdiction Issues defined therein, Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tes

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司。

SGS

# **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 13 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.)

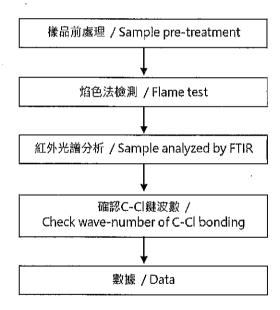
臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.)

江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)



#### 聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> Attention of Ilability, Indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's opic responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or fasification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

SGS

# **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 14 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.) 臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.) 慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.) 桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN R. O. C.) 江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)

元素(含重金屬)分析流程圖 / Analytical flow chart of Elements (Heavy metal included)

根據以下的流程圖之條件・樣品已完全溶解。

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【參考方法/Reference method: US EPA 3051A、US EPA 3052】

\* US EPA 3051A 方法未添加氫氟酸 / US EPA 3051A method does not add HF.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sqs.com.tw/terms-of-service">https://www.sqs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sqs.com.tw/terms-of-service">https://www.sqs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sqs.com.tw/terms-of-service">https://www.sqs.com.tw/terms-of-service</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not axonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized elteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiwan Ltd. 台湾检验科技股份有限公司

SG

# **Test Report**

號碼(No.): ETR21C00682 日期(Date): 10-Dec-2021

頁數(Page): 15 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.) 臺慶精密電子 (昆山) 有限公司 (TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.) 慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.) 桃園市楊梅區幼獅工業區幼四路1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN

CITY, TAIWAN R. O. C.)

江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P,R, CHINA)

# 

\*\* 報告結尾 (End of Report) \*\*

ANOTHER SIDE

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com.tw/terms-of-service">https://www.sgs.com.tw/terms-of-service</a> Attention is drawn to the limitation of llability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

新北市五股區新北產業園區五權七路 25 號 t+886(02)2299 3939 f+886(02)2299 3237 25, Wu Chyuan 7<sup>th</sup> Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan

cm

单击下面可查看定价,库存,交付和生命周期等信息

>>TAI-TECH(台庆)