

	Dat	e: 2022/5/25		HS Certificate 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 anced Electronics Co.,		
TAI-TECH Advanced Elect <u>Headquarter:</u> NO.1 YOU 4TH ROAD, YOUTH IN	TAI-TECH Adv 키 stronics Co., Ltd IDUSTRIAL DISTRICT, YANG-MEI,			
TAI-TECH Advanced Elect <u>Headquarter:</u> NO.1 YOU 4TH ROAD, YOUTH IN TAO-YUAN HSIEN, TAIWAN, R.O. TEL: +886-3-4641148 FAX: +88 http://www.tai-tech.com.tw	퍼. 한 tronics Co., Ltd IDUSTRIAL DISTRICT, YANG-MEI, .C.	anced Electronics Co.,		
TAI-TECH Advanced Elec <u>Headquarter:</u> NO.1 YOU 4TH ROAD, YOUTH IN TAO-YUAN HSIEN, TAIWAN, R.O. TEL: +886-3-4641148 FAX: +88 http://www.tai-tech.com.tw E-mail: sales@tai-tech.com.tw]Office:	퍼. 한 tronics Co., Ltd IDUSTRIAL DISTRICT, YANG-MEI, .C.	anced Electronics Co., Sales Dep.	Ltd CHECKED	
TAI-TECH Advanced Elec <u>Headquarter:</u> NO.1 YOU 4TH ROAD, YOUTH IN TAO-YUAN HSIEN, TAIWAN, R.O. TEL: +886-3-4641148 FAX: +88 http://www.tai-tech.com.tw E-mail: sales@tai-tech.com.tw]Office: 深圳辦公室 11BC,Building B Fortune Plaza,N District Shenzhen	TAI-TECH Adv 로 tronics Co., Ltd IDUSTRIAL DISTRICT, YANG-MEI, .C. 36-3-4643565 IO.7002, Shennan Avenue, Futian	anced Electronics Co., Sales Dep.	<u>Ltd</u>	
TAI-TECH Advanced Elect <u>Headquarter:</u> NO.1 YOU 4TH ROAD, YOUTH IN TAO-YUAN HSIEN, TAIWAN, R.O. TEL: +886-3-4641148 FAX: +88 http://www.tai-tech.com.tw E-mail: sales@tai-tech.com.tw]Office: 深圳辦公室 11BC, Building B Fortune Plaza, N District Shenzhen TEL: +86-755-23972371 FAX: + I臺慶精密電子(昆山)有限公 TAI-TECH ADVANCED ELEC	TAI-TECH Adv 되 stronics Co., Ltd IDUSTRIAL DISTRICT, YANG-MEI, .C. 36-3-4643565	anced Electronics Co., Sales Dep. APPROVED 管哲頎 Eric Guan	Ltd CHECKED	
Headquarter: NO.1 YOU 4TH ROAD, YOUTH IN TAO-YUAN HSIEN, TAIWAN, R.O. TEL: +886-3-4641148 FAX: +88 http://www.tai-tech.com.tw E-mail: sales@tai-tech.com.tw]Office: 深圳辦公室 11BC,Building B Fortune Plaza,N District Shenzhen TEL: +86-755-23972371 FAX: + I臺慶精密電子(昆山)有限公 TAI-TECH ADVANCED ELEC	TAI-TECH Adv	anced Electronics Co., Sales Dep. APPROVED 管哲頎 Eric Guan	Ltd CHECKED	DRAWN

TAI-TECH

High Current Ferrite Chip Bead(Lead Free)

HFZ1608PF-601T20-HD

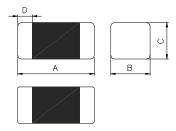
		ECN HISTORY LIST					
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN		
1.0	21/08/19	新版發行	楊祥忠	詹偉特	張嘉玲		
備							
註							

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)

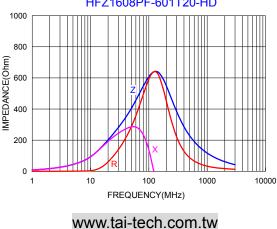
4. Specification

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

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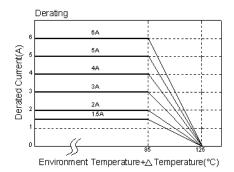
5. Reliability and Test Condition

Item	Performance		Те	st Con	dition	
Series No.	HFZ					
Operating Temperature	-55~+125℃ (Including self-temperature rise)					
Transportation Storage Temperature	-55~+125℃ (on board)	For long storage conditions, please s Application Notice				
Impedance (Z)		Agilent4 Agilent E Agilent4	E4991 287			
DC Resistance	Refer to standard electrical characteristics list	Agilent1				
Do Resistance	-	Agilent 4 DC Pow		lv		
Rated Current			ted Curr		rements, the	ere will be
Temperature Rise Test	Rated Current < 1A ΔT 20℃Max Rated Current ≧ 1A ΔT 40℃Max	2. Tempe			current. by digital si	urface
Life test		times.(II Reflow F Tempera Applied Duration	PC/JED Profiles) ature: 12 current: a: 1000± ed at roo	EC J-STE 25±2°C rated curr 12hrs.	ugh IR reflox 0-020E Clas rent. rature after p	sification
Load Humidity	 Appearance: no damage. Impedance: within±15% of initial value. RDC : within ±15% of initial value and shall not exceed the specification value 	Preconditioning: Run through IR reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles) Humidity: 85±2%R.H. Temperature: 85±2°C . Duration:1000hrsMin. Bead:with100%ratedcurrent Inductance: with 10% rated current Measured at room temperature after placing for 24±2 hrs.			sification	
Thermal shock	Appearance: no damage. Impedance: within±15%of initial value. RDC : within ±15% of initial value and shall not exceed the specification value	Preconditioning: Run through IR reflow for 3 times. (IPC/JEDEC J-STD-020E Classification Reflow Profiles) Condition for 1 cycle Step1: $-55\pm2^{\circ}$ C 30 ± 5 min. Step2: $125\pm2^{\circ}$ C 30 ± 5 min. Number of cycles: 500 Measured at room temperature after placing for 24\pm2 hrs.			sification	
Vibration	Appearance : No damage. Impedance : within±15% of initial value RDC : within ±15% of initial value and shall not exceed the specification value	Preconditioning: Run through IR reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles) Oscillation Frequency:10Hz~2KHz~10Hz for 20 minutes Equipment : Vibration checker Total Amplitude:10g Testing Time : 12 hours(20 minutes, 12 cycles each of 3 orientations) °				
Bending	Appearance : No damage. Impedance : within±10% of initial value RDC : within ±15% of initial value and shall not exceed the specification value	Shall be mounted on a FR4 substrate of the following dimensions: >=0805inch(2012mm):40x100x1.2mm <0805inch(2012mm):40x100x0.8mm Bending depth: >=0805inch(2012mm):1.2mm <0805inch(2012mm):0.8mm Duration of 10 sec for a min.				
		Test co	ndition	:		
Shock	Appearance:No damage. Impedance:within±10% of initial value	Туре	Peak Value (g's)	Normal duration (D) (ms)	Wave form	Velocity change (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 @235°C±5°C Test time:5 +0/-0.5 seconds. b. Method D category 3. (steam aging 8hours ± 15 min)@ 260°C±5°C Test time: 30 +0/-0.5 seconds.		
		Number of heat cycles: 1		
Resistance to Soldering	Appearance : No damage.	Temperature (°C) Time (s) Temperature ramp/immersion and emersion rate		
Heat	Impedance : within±15% of initial value RDC : within ±15% of initial value and shall not exceed the specification value	260 ±5 (solder temp) 10 ±1 25mm/s ±6 mm/s		
		Depth: completely cover the termination		
Terminal strength	Appearance : No damage. Impedance : within±15% of initial value RDC : within±15% of initial value and shall not exceed the specification value	Preconditioning: Run through IR reflow for 3 times. (IPC/JEDEC J-STD-020E Classification Reflow Profiles) Component mounted on a PCB apply a force >0805inch(2012mm):0.5kg to the side of a device being tested. This force shall be applied for 60 +1 seconds. Also the force shall be applied gradually as not to shock the component being tested.		

**Derating Curve

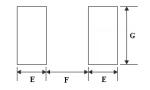
For the ferrite chip bead which withstanding current over 1.5A, as the operating temperature over 85° C, the derating current information is necessary to consider with. For the detail derating of current, please refer to the Derated Current vs. Operating Temperature curve.



6. Soldering and Mounting

6-1. Recommended PC Board Pattern

	Chip Size						Pattern 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

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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.)

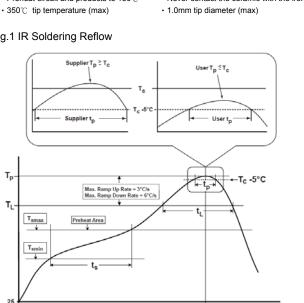
 $\,\cdot$ Preheat circuit and products to 150 $^\circ\!{\rm C}$

 $\boldsymbol{\cdot}$ 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

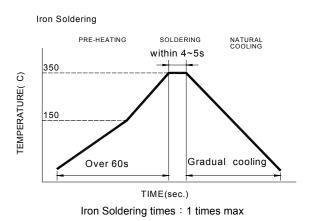


Table (1.1): Reflow Profiles

Time 25°C to Peal

Profile Type:	Pb-Free Assembly
Preheat -Temperature Min(T _{smin}) -Temperature Max(T _{smax}) -Time(t _s)from(T _{smin} to T _{smax})	150℃ 200℃ 60-120seconds
Ramp-up rate(T₋to T _p)	3℃/second max.
Liquidus temperature(T _L) Time(t _L)maintained above T _L	217℃ 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_c)

	Package Thickness	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >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:

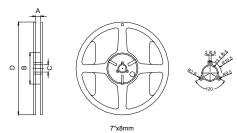
Accordingly increasing the solder volume, the mechanical stress to product is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance. Solder shall be used not to be exceed as shown in right side:

Minimum fillet height = soldering thickness + 25% product height



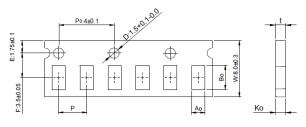
7. Packaging Information

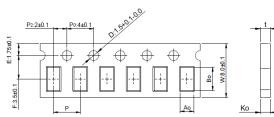
7-1. Reel Dimension



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

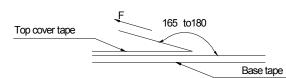
(%)

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

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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) 樣品型號(Style/Item No.)	:	FERRITE CHIP BEAD 、FERRITE CHIP INDUCTOR 、ARRAY 、MCF 、MCM 、 YMV SERIES FERRITE CHIP BEAD 、FERRITE CHIP INDUCTOR 、ARRAY 、MCF 、MCM 、 YMV SERIES
=====================================	=====) : ;	03-Dec-2021 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) 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**



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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

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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

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Test Report

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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 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.

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SGS Taiwan Ltd. 台湾检验科技股份有限公司

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Test Report

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

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) 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 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- (2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7)		mg/kg	50	n.d.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)		mg/kg	50	n.d.
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40- 0, 68515-49-1)	参考IEC 62321-8:2017,以氣相層祈儀/買謂儀分 析。(With reference to IEC 62321-8:2017,	mg/kg	50	n.d.
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12- 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 phthalate (DNOP)) (CAS No.: 117-84-0)		mg/kg	50	n.d.
鄰苯二甲酸二正戊酯 (DNPP) (Di-n- pentyl phthalate (DNPP)) (CAS No.: 131-18-0)			50	n.d.
鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)		mg/kg	50	n.d.

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SGS Taiwan Ltd. 台湾檢驗科技股份有限公司

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Test Report

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

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) 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- HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321-9: 2021,以氣相層析儀/質譜儀分 析。(With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.)	mg/kg	20	n.d.
氟 (F) (Fluorine (F)) (CAS No.: 14762-94- 8)		mg/kg	50	n.d.
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537- 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- 32-2)	(With reference to BS EN 14582: 2016, analysis 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 salts) (CAS No.: 1763-23-1 and its salts)	參考CEN/TS 15968: 2010.以液相層析串聯質譜 儀分析。(With reference to CEN/TS 15968: 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) (CAS No.: 335-67-1 and its salts)	参考CEN/TS 15968: 2010,以液相層析串聯質譜 儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.

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SGS Taiwan Ltd. 台湾檢驗科技股份有限公司

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (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 譜儀及焰色法分析。(With reference to ASTM E1252: 2013, analysis was performed by FT-IR and Flame Test.)	**	-	Negative
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440- 36-0)	<u> </u>	mg/kg	2	n.d.
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440- 41-7)	參考US EPA 3052: 1996,以感應耦合電漿發射光 譜儀分析。(With reference to US EPA 3052:	mg/kg	2	n.d.
砷 (As) (Arsenic (As)) (CAS No.: 7440- 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.

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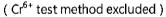
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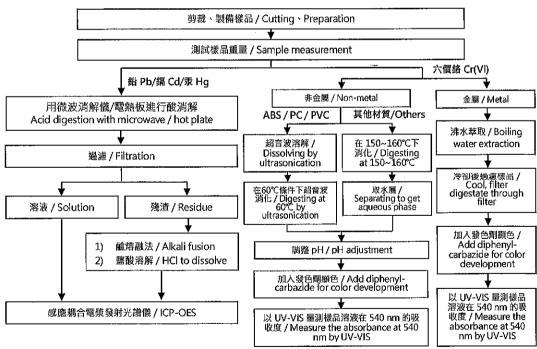
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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





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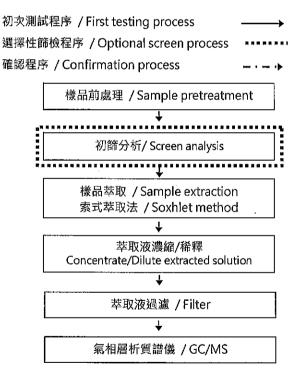
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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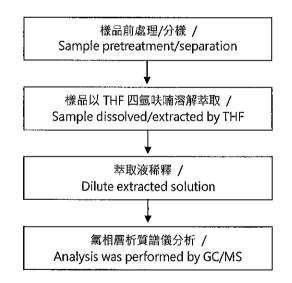
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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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.)

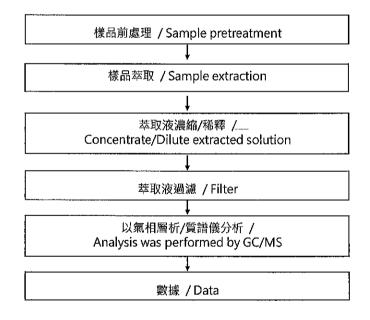
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

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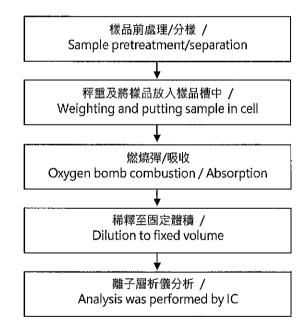
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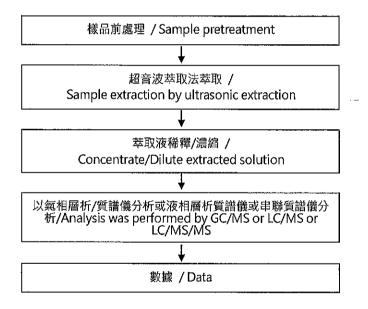
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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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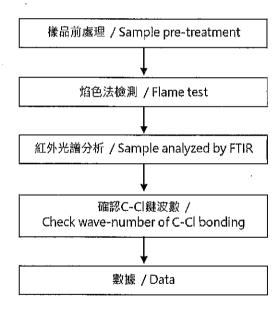
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聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC

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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.

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** 報告結尾 (End of Report) **

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