# **Telecoil-antennas Inductors**

PAS3012EF-681K

		ECN HISTORY LIS	ST		
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN
1.0	17/08/01	新 發 行	楊祥忠	詹偉特	張展耀
備					
註					

## **Telecoil-antennas Inductor**

PAS3012EF-681K

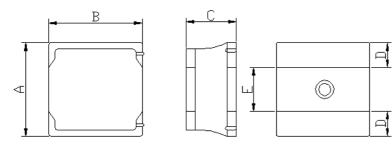
#### 1. Features

- 1. Hearing Aid Compatibility-/ Telecoil -antennas;
- 2. PAS3012F-series realizes small size and low profile. .3.0x3.0x1.2 mm.
- 3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 4. Meets the T3/T4 FCC .Requirements (HAC-Act) acc. ANSI C63.19





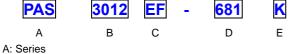
#### 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
PAS3012	3.0±0.2	3.0±0.2	1.2 max.	1.0 ref.	1.0 ref.

Units: mm

## 3. Part Numbering



B: Dimension

C: Lead Free Material
D: Inductance 681=680uH
E: Inductance Tolerance K=±10%

### 4. Specification

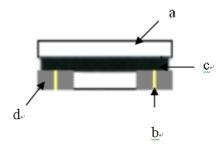
Part Number	Inductance (uH) ±10%	Test Frequency (KHz)	SRF MHz(typ)	RDC(Ω) Max.	Rated current (mA)Max.
PAS3012EF-681K	680	10	5.0	22	80

#### Note:

- 1. Test frequency : Inductor(L) : 10KHz /0.1V;
- 2. All test data referenced to  $25^{\circ}\!\mathbb{C}\,$  ambient.
- 3. Testing Instrument: L/Q: Agilent-4192A, Agilent-16334A; Irms:CH3302,CH1320; SRF: Agilent-4291B; RDC: Agilent-34420A

## 5. Material

No.	Description	Specification
a.	Core	Ferrite Core
b.	Wire	Enameled Copper Wire
С	Glue	Ероху
d	Terminal	Ag/Ni/Sn



## 6. Reliability and Test Condition

Item	Performance	Test Condition
Operating temperature	-40~+125°C (Including self - temperature rise)	
Storage temperature	-40~+125℃ (on board)	
Electrical Performance	lest	
Inductance		HP4284A,CH11025,CH3302,CH1320,CH1320S
	Refer to standard electrical characteristics list.	LCR Meter.
DCR		CH16502,Agilent33420A Micro-Ohm Meter.
		Saturation DC Current (Isat) will cause L0
Saturation Current (Isat)	△L≦30% typical.	to drop △L(%)(keep quickly).
		Heat Rated Current (Irms) will cause the coil temperature rise
		$\triangle T({}^{\circ}\!$
Heat Rated Current (Irms)	Approximately △T≤40°C	1.Applied the allowed DC current(keep 1 min.).
		Temperature measured by digital surface thermometer
Poliability Toot		
Reliability Test		Dropped distances Dura through ID reflorator 2 times (IDC/IDDC
l		Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020DClassification Reflow Profiles)
		Temperature : 125±2°C (Inductor)
Life Test		Applied current : rated current
		Duration: 1000±12hrs
		Measured at room temperature after placing for 24±2 hrs
		· · · ·
		Preconditioning: Run through IR reflow for 2 times.( IPC/JEDEC
Load Humidity		J-STD-020DClassification Reflow Profiles
Load Humbley		Humidity: 85±2%R.H,
		Temperature : 85°C±2°C
		Duration: 1000hrs Min. with 100% rated current
		Measured at room temperature after placing for 24±2 hrs
		Preconditioning: Run through IR reflow for 2 times.( IPC/JEDEC
		J-STD-020DClassification Reflow
		Profiles
		<ol> <li>Baked at50<sup>o</sup>C for 25hrs, measured at room temperature afte placing for 4 hrs.</li> </ol>
		2. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and
Moisture Resistance	Appearance : No damage.	keep 3 hours, cool down to 25°C in 2.5hrs.
	Inductance : within±10% of initial value	3. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and
	Q : Shall not exceed the specification value.	keep 3 hours, cool down to 25°C in 2.5hrs,keep at 25°C for 2 hrs then keep at -10°C for 3 hrs
	· ·	4. Keep at 25°C 80-100%RH for 15min and vibrate at the
	RDC: within ±15% of initial value and shall not	frequency of 10 to 55 Hz to 10 Hz, measure at
	exceed the specification value	room temperature after placing for 1~2 hrs.
	_	Preconditioning: Run through IR reflow for 2 times.( IPC/JEDEC
		J-STD-020DClassification
Thermal		Reflow Profiles Condition for 1 cycle
shock		Step1 : -40±2℃ 30±5min
		Step2 : 25±2°C ≤0.5min
		Step3: 125±2°C 30±5min
		0.0p0 . 12012 ( 001011111
		Number of cycles : 500
		Number of cycles: 500  Measured at room temperature after placing for 24±2 hrs
		Measured at room temperature after placing for 24±2 hrs
Vibration		Measured at room temperature after placing for 24±2 hrs Oscillation Frequency: 10 ~ 2K ~ 10Hz for 20 minutes
Vibration		Measured at room temperature after placing for 24±2 hrs Oscillation Frequency: 10 ~ 2K ~ 10Hz for 20 minutes Equipment: Vibration checker Total Amplitude:1.52mm±10%
Vibration	www.tai-tech.com.tw	Measured at room temperature after placing for 24±2 hrs Oscillation Frequency: 10 ~ 2K ~ 10Hz for 20 minutes Equipment: Vibration checker

Item	Performance			Test	Cond	lition			
Bending	Appearance : No damage. Inductance : within±10% of initial value			Shall be mounted on a FR4 substrate of the following dimensions: >=0805 inch(2012mm):40x100x1.2mm <0805 inch(2012mm):40x100x0.8mm Bending depth: >=0805 inch(2012mm):1.2mm <0805 inch(2012mm):0.8mm duration of 10 sec.					
	Inductance: within±10% of initial value Q: Shall not exceed the specification value. RDC: within ±15% of initial value and shall not exceed the specification value	Туре	Peak value (g's)	Norma duration (ms)	(D)	Wave form	Velocity change (Vi)ft/sec		
		SMD	50	11	Ha	alf-sine	11.3		
		Lead	50	11	Ha	alf-sine	11.3		
Solder ability	More than 95% of the terminal electrode should be covered with solder。	Preheat: 150°C,60sec Solder: Sn96.5% Ag3% Cu0.5% Temperature: 245±5°C  Flux for lead free: Rosin. 9.5%  Dip time: 4±1sec  Depth: completely cover the termination Depth: completely cover the termination							
Resistance to Soldering Heat	Appearance: No damage. Inductance: within±10% of initial value Q: Shall not exceed the specification value. RDC: within ±15% of initial value and shall not exceed the specification value		perature(°C)		Temp ramp/ii	perature immersion nersion rate			
			260 ±5 (solder temp)		25mm/	/s ±6 mm/s	1		
			Preconditioning: Run through IR reflow for 2 times.( IPC/JEDEC J-STD-020DClassification Reflow Profiles With the component mounted on a PCB with the device to be tested, apply a force(-0805:1kg, <=0805:0.5kg)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 apply a shock to the component being tested.				be of a ds.		

## 7. Soldering and Mounting

#### 7-1. Soldering

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

#### 7-1.1 Solder re-flow:

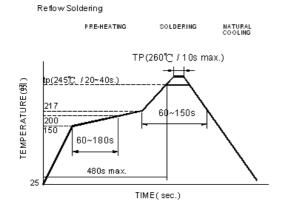
Recommended temperature profiles for re-flow soldering in Figure 1.

#### 7-1.2 Soldering Iron(Figure 2):

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.

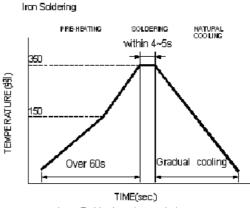
- Never contact the ceramic with the iron tip
- Use a 20 watt soldering iron with tip diameter of 1.0mm

- 355°C tip temperature (max)
- 1.0mm tip diameter (max)
- Limit soldering time to 4~5 sec.



Reflow times: 3 times max.

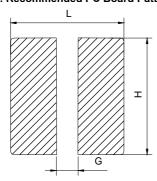
Fig.1



Iron Soldering times: 1 times max.

Fig.2

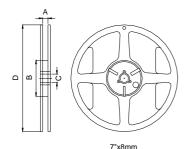
#### 7-2. Recommended PC Board Pattern



L(mm)	G(mm)	H(mm)
3.2	1.0	3.2

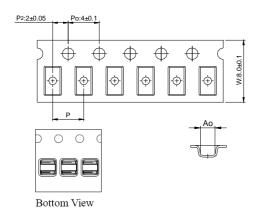
### 8. Packaging Information

#### 8-1. Reel Dimension



Туре	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	8.4±1.0	50 min.	13±0.8	178±2

8-2. Tape Dimension / 8mm

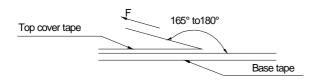




#### 8-3. Packaging Quantity

Chip size	3012
Chip / Reel	2000

#### 8-4. Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp.	Room Temp. Room Humidity		Tearing Speed
(℃)	(%)	(hPa)	mm/min
5~35	45~85	860~1060	300

#### **Application Notice**

• Storage Conditions(component level)

To maintain the solderability of terminal electrodes:

- 1. TAI-TECH products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 3. Recommended products should be used within 12 months form 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.



**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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(耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY 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) (桃園市中壢區中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

(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)

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 Description)

SMD POWER INDUCTOR

樣品型號(Style/Item No.)

HPC(YHC · DR) · MDC · FPC(YPC) · FWP(YWP) · SPC · AHP · UHP · DFP · DHP · TLPC ·

TLPH . TLI . PAS SERIES

收件日期(Sample Receiving Date)

2016/11/09

測試期間(Testing Period)

2016/11/09 TO 2016/11/17

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).





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#### 測試結果(Test Results)

測試部位(PART NAME)No.1

整體混測 (MIXED ALL PARTS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鍋 / Cadmium (Cd)	mg/kg	參考IEC 62321-5 (2013),以感應耦合 電漿原子發射光譜儀檢測. / With	2	n. d.
鉛 / Lead (Pb)	mg/kg	reference to IEC 62321-5 (2013) and performed by ICP-AES.	2	n. d.
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4 (2013),以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-4 (2013) and performed by ICP-AES.	2	n, d,
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321 (2008),以UV-VIS檢 測. / With reference to IEC 62321 (2008) and performed by UV-VIS.	2	n. d.
銻 / Antimony (Sb)	mg/kg	参考US EPA 3052 (1996),以感應耦合 電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.
鈹 / Beryllium (Be)	mg/kg	参考US EPA 3052 (1996),以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	÷	Negative

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結果 方法偵測 單位 測試方法 測試項目 (Result) 極限值 (Method) (Test Items) (Unit) (MDL) No. 1 多溴聯苯總和 / Sum of PBBs n. d. mg/kg - 溴聯苯 / Monobromobiphenyl 5 n. d. mg/kg 二溴聯苯 / Dibromobiphenyl mg/kg 5 n. d. 三溴聯苯 / Tribromobiphenyl 5 mg/kg n, d, 5 四溴聯苯 / Tetrabromobiphenvl n. d. mg/kg 五溴聯苯 / Pentabromobiphenyl 5 n. d. mg/kg 六溴聯苯 / Hexabromobiphenyl mg/kg 5 n. d. 七溴聯苯 / Heptabromobiphenvl 5 mg/kg n. d. 5 八溴聯苯 / Octabromobiphenyl mg/kg n. d. 九溴聯苯 / Nonabromobiphenyl mg/kg 5 n. đ. 參考IEC 62321-6 (2015),以氣相層析 十溴聯苯 / Decabromobiphenyl 5 mg/kg n. d. /質譜儀檢測,/ With reference to 多溴聯苯醚總和 / Sum of PBDEs IEC 62321-6 (2015) and performed mg/kg n. d. by GC/MS. -溴聯苯醚 / Monobromodiphenyl ether mg/kg 5 n. d. 5 二溴聯苯醚 / Dibromodiphenyl ether mg/kg n. d. 5 三溴聯苯醚 / Tribromodiphenyl ether mg/kg n. d. 5 四溴聯苯醚 / Tetrabromodiphenyl ether mg/kg n. d. 五溴聯苯醚 / Pentabromodiphenyl ether 5 mg/kg n. d. 六溴聯苯醚 / Hexabromodiphenyl ether mg/kg 5 n. d. 七溴聯苯醚 / Heptabromodiphenyl ether 5 mg/kg n. d. 八溴聯苯醚 / Octabromodiphenyl ether 5 n. d. mg/kg 九溴聯苯醚 / Nonabromodiphenyl ether 5 mg/kg n. d. 5 十溴聯苯醚 / Decabromodiphenyl ether mg/kg n. d.



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(1979) | 桃園市楊梅區幼獅王業區幼四路1號:/-NO.-1,-| YOU-4TH-ROAD,-| YOUTH INDUSTRIAL-DISTRICT,--YANG=MEI,--TAO=YUAN CITY

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鄉苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibuty1 phthalate) (CAS No.: 84-74-2)	mg/kg		50	n. d.
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	mg/kg	参考IEC 62321-8/CD (2013),以氣相	50	n. d.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	mg/kg	層析儀/質譜儀檢測. / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	50	n. d.
鄉苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	mg/kg	OCT MG.	50	n. d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	n. d.
鄰苯二甲酸二正己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	mg/kg		50	n. d.
鄰苯二甲酸二戊酯 / Di-n-pentyl phthalate (CAS No.: 131-18-0)	mg/kg		50	n. d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C (2007),以液相層析/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was	10	n. d.
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	performed by LC/MS.	10	n. d.

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

出籍:桃園市楊梅區幼獅工業區幼四路1號以 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) (桃園市中堰區中堰工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

(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 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (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 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	参考IEC 62321 (2008),以氣相層析/ 質譜儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n. d.
鹵素 / Halogen				
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg		50	n. d.
鹵素 (氣) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	参考BS EN 14582 (2007),以離子層析 儀分析. / With reference to BS EN	50	n. d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	14582 (2007). Analysis was performed by IC.	50	n. d.
鹵素(碘)/ Halogen-Iodine(I)(CAS No.: 14362-44-8)	mg/kg		50	n, d.

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TAIWAN, R. O. C.)

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#### 備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 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. 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 samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

### PFOS參考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗 層材料中不得超過lug/m2。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above  $1\mu g/m^2$ .)



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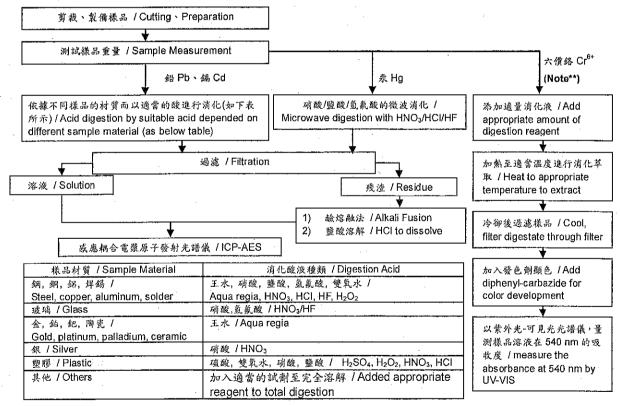
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#### 重金屬流程圖 / Analytical flow chart of Heavy Metal (IEC 62321)

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)/

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)

- 測試人員:王志瑋 / Technician: JR Wang
- 測試負責人:張啟興 / Supervisor: Troy Chang



Note\*\*:(1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.

(2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling

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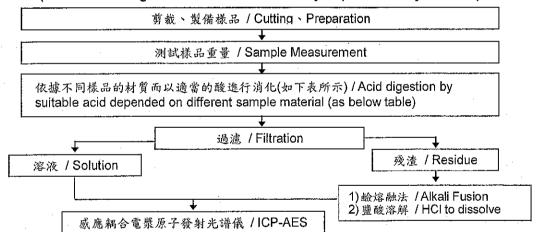
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根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

- 測試人員:王志瑋 / Technician: JR Wang
- 測試負責人:張啟興 / Supervisor: Troy Chang

#### 元素以 ICP-AES 分析的消化流程圖 (Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO₃, HCI, HF, H₂O₂
玻璃 / Glass	硝酸,氫氟酸 / HNO <sub>3</sub> /HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO <sub>3</sub>
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCI
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

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#### 全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

■ 測試人員:涂雅苓 / Technician: Yaling Tu

■ 測試負責人:張啟興 / Supervisor: Troy Chang

様品前處理 / Sample pretreatment

超音波萃取法萃取 /
Sample extraction by Ultrasonic extraction
(參考方法 Reference method: US EPA 3550C)

萃取液稀釋/濃縮 /
Concentrate/Dilute Extracted solution

以液相層析質譜儀分析萃取液 /
Analysis was performed by LC/MS

數據 / Data

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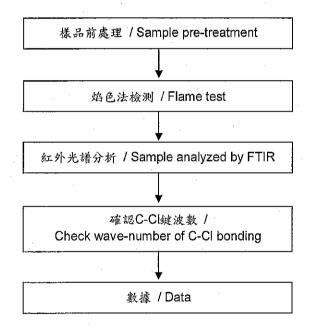
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### 聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC

- 測試人員:涂雅苓 / Technician Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang



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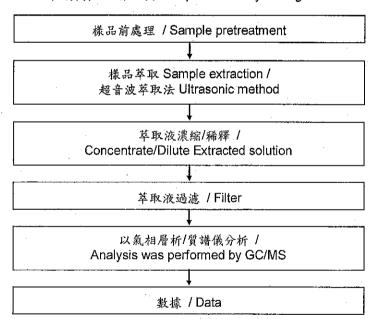
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### 六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

測試人員:涂雅苓 / Technician: Yaling Tu

測試負責人:張啟興 / Supervisor: Troy Chang



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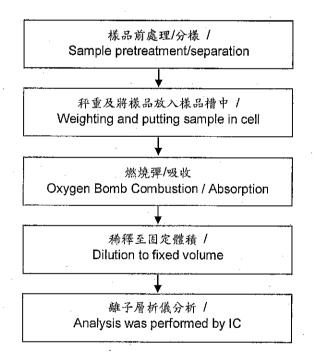
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#### 鹵素分析流程圖 / Analytical flow chart - Halogen

測試人員:陳恩臻 / Technician: Rita Chen

測試負責人:張啟興 / Supervisor: Troy Chang



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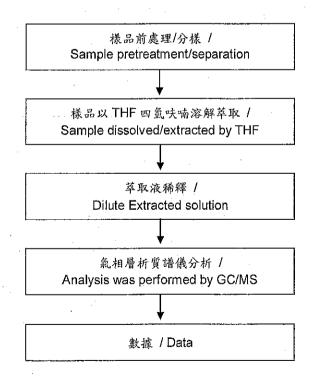
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#### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

測試人員:徐毓明 / Technician: Andy Shu

測試負責人:張啟興 / Supervisor: Troy Chang

【测試方法/Test method: IEC 62321-8】



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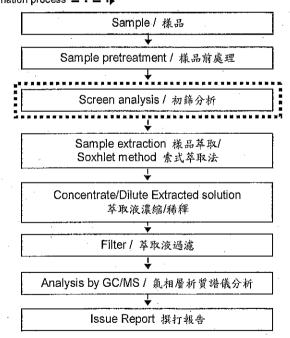
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### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

測試人員:涂雅苓 / Technician: Yaling Tu

測試負責人:張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process = 選擇性篩檢程序 / Optional screen process \*\*\*\* 確認程序 / Confirmation process \_ . \_ . ▶



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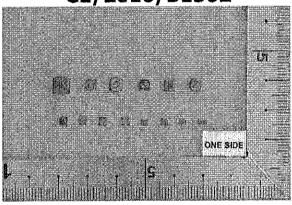
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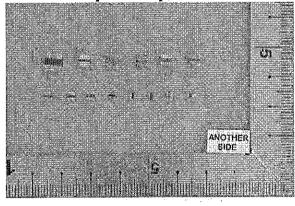
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\* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. \*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

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\*\* 報告結尾 (End of Report) \*\*

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