



Specification for Approval

Date: 2015/07/09

Customer: 深圳台慶

	TAI-TECH P/N:	HPC5020B-SERIES	<u> </u>
	CUSTOMER P/N:		
	DESCRIPTION:		
	QUANTITY:	pcs	<u> </u>
REM	IARK:		
	Cu	stomer Approval Feedba	nck

西北臺慶科技股份有限公司 TAI-TECH Advanced Electronics Co., Ltd

■ 西北臺慶科技股份有限公司

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Power Inductor

HPC5020B-SERIES

REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN
1.0	15/07/09	新 發 行	楊祥忠	詹偉特	何秦芝
/#:			•		•
備					
註					

Power Inductor

HPC5020B-SERIES

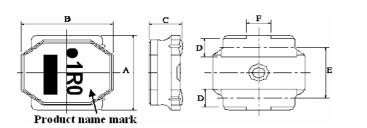
1. Features

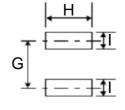
- 1. This specification applies Low Profile Power Inductors.
- 2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free



2. Dimension





Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	l(mm)
HPC5020B	4.9±0.2	4.9±0.2	2.0 max.	1.2±0.2	3.3±0.2	1.3 typ.	3.6 ref.	4.0 ref.	1.5 ref.

Units: mm

3. Part Numbering

HPC 5020 B - 1R0 Y

A: Series

B: Dimension

C: Control S/N

D: Inductance 1R0=1.0uH

E: Inductance Tolerance M=±20%; Y=±30%

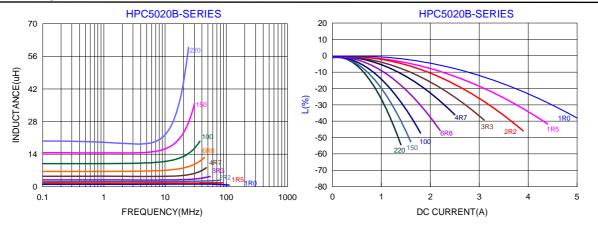
4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz) min.	DCR (Ω) ±20%	l sat (A)	I rms (A)
HPC5020B-1R0Y	1.0	±30%	1V100K	81	0.021	4.00	3.60
HPC5020B-1R5Y	1.5	±30%	1V100K	68	0.026	3.35	3.20
HPC5020B-2R2Y	2.2	±30%	1V100K	57	0.035	2.90	2.90
HPC5020B-3R3Y	3.3	±30%	1V100K	46	0.048	2.40	2.40
HPC5020B-4R7M	4.7	±20%	1V100K	37	0.060	2.00	2.00
HPC5020B-6R8M	6.8	±20%	1V100K	30	0.090	1.60	1.65
HPC5020B-100M	10	±20%	1V100K	24	0.120	1.30	1.45
HPC5020B-150M	15	±20%	1V100K	20	0.165	1.10	1.20
HPC5020B-220M	22	±20%	1V100K	17	0.260	0.90	1.00

Note:

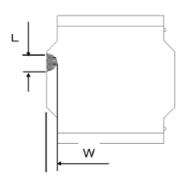
Isat : Based on inductance change $(\triangle L/L0 : \le -30\%)$ @ ambient temp. 25°C

Irms : Based on temperature rise $(\triangle T : 40^{\circ}C \text{ typ.})$



Core chipping

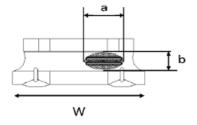
The appearance standard of the chipping size on top side, and bottom side ferrite core is listed below.



Туре	L	w
HPC5020B	1.5mm Max.	1.5mm Max.

Void appearance tolerance Limit

Size of voids occurring to coating resin is specified below.



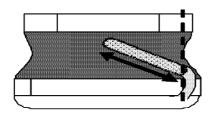
Exposed wire tolerance limit of coating resin part on product side.

Size of exposed wire occurring to coating resin is specified below.

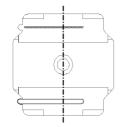
- 1. Width direction (dimension a) : Acceptable when a \leq w/2 Nonconforming when a > w/2
- 2. Length direction (dimension b): Dimension b is not specified.
- 3. The total area of exposed wire occurring to each sides is not greater than 50% of coating resin area, and is acceptable.

External appearance criterion for exposed wire

Exposed end of the winding wire at the secondary side should be 3mm and below.



5. Electrode appearance criterion for exposed wire



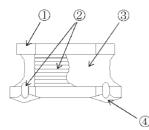
Only top side of wire is exposed. (regardless of whole tope side of wire exposed)



Less than 1/2 of joint side length. (More than 1/2 is selected as defect)

Wire is soldered insufficiently and less than half of outer diameter is covered with solder.

6. Material List



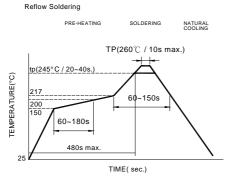
No.	Item	Material
1	Core	Ni-Zn ferrite
2	Wire	Copper Wire
3	Coating	Epoxy with magnetic
4	Solder	Lead free

7. Reliability and Test Condition

Item	Performance	Test Condition
Operating temperature	-40~+125℃ (Including self - temperature rise)	
Storage temperature	-40~+125℃ (on board)	
Electrical Performance T	est	
		HP4284A,CH11025,CH3302,CH1320,CH1320S
Inductance	Refer to standard electrical characteristics list.	LCR Meter.
DCR	7	CH16502, Agilent 33420 A Micro-Ohm Meter.
		Saturation DC Current (Isat) will cause L0
Saturation Current (Isat)	△L≦30% typical.	to drop \(\triangle L(%)(keep quickly).
		Heat Rated Current (Irms) will cause the coil temperature rise
		$\triangle T(^{\circ}C)$ without core loss.
Heat Rated Current (Irms)	Approximately △T≤40°C	1.Applied the allowed DC current(keep 1 min.).
		Z.Temperature measured by digital surface thermometer
Reliability Test		
		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles)
		Temperature : 125±2°C (Bead)
Life Test		Temperature : 85±2°C (Inductor)
		Applied current: rated current
	Appearance : No damage.	Duration: 1000±12hrs
	Inductance: within±10% of initial value	Measured at room temperature after placing for 24±2 hrs
	Q : Shall not exceed the specification value. RDC : within ±15% of initial value and shall not	Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles
	exceed the specification value	Humidity: 85±2%R.H,
Load Humidity		Temperature : 85°C±2°C
		Duration: 1000hrs Min. with 100% rated current
		Measured at room temperature after placing for 24±2 hrs

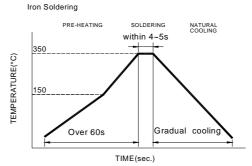
Item	Performance	Test Condition				
Thermal shock	Appearance: No damage. Inductance: within±10% of initial value Q: Shall not exceed the specification value.	Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles Condition for 1 cycle Step1: -40±2°C 30±5min Step2: 25±2°C ≤0.5min Step3: 105±2°C 30±5min Number of cycles: 500 Measured at room temperature after placing for 24±2 hrs				
Vibration	RDC : within ±15% of initial value and shall not exceed the specification value	Oscillation Frequency: 10 ~ 2K ~ 10Hz for 20 minutes Equipment: Vibration checker Total Amplitude:1.52mm±10% Testing Time: 12 hours(20 minutes, 12 cycles each of 3 orientations).				
Shock		Type Peak Normal Wave change (g's) (ms) Wave form (Vi)ft/sec				
		SMD 1500 0.5 Half-sine 15.4				
		Lead 100 6 Half-sine 12.3				
Bending		Shall be mounted on a FR4 substrate of the following dimensions: >=0805:40x100x1.2mm <0805:40x100x0.8mm Bending depth: >=0805:1.2mm <0805:0.8mm duration of 10 sec.				
Soderability	More than 95% of the terminal electrode should be covered with solder.	Solder: Sn99.5%-Cu0. 5%。 Temperature: 245±5°C。 Flux for lead free: Rosin. 9.5%。 Dip time: 4±1sec。 Depth: completely cover the termination				
		Number of heat cycles: 1				
Resistance to Soldering Heat		Temperature (°C) Time(s) Temperature ramp/immersion and emersion rate				
		260 ±5(solder temp) 10 ±1 25mm/s ±6 mm/s				
Terminal Strength	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	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.				

8. Soldering



Reflow times: 3 times max.

Fig.1



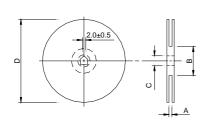
Iron Soldering times: 1 times max.

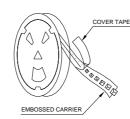
Fig.2

(2) Tape Dimension

9. Packaging Information

(1) Reel Dimension





Туре	A(mm)	B(mm)	C(mm)	D(mm)	
HPC5020B	14±1.5	60±2.0	13±0.5	180±3.0	

Туре	A(mm)	B(mm)	Ko(mm)	P(mm)	W(mm)	t(mm)
HPC5020B	5.25±0.1	5.25±0.1	2.3±0.1	8.0±0.1	12±0.3	0.3±0.1

(3) Packaging Quantity

Туре	Chip / Reel		
HPC5020B	800		

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.
- 2. Temperature and humidity conditions: Less than 40°C and 60% RH.
- 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.



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Test Report

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.)

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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 Description)

SMD POWER INDUCTOR

樣品型號(Style/Item No.)

HPC(YHC, DR), MDC, FPC(YPC), FWP, SPC, SPI, UHP, DFP, DHP, TLPC, TLPH,

TLI SERIES

收件日期(Sample Receiving Date)

2014/11/10

測試期間(Testing Period)

2014/11/10 TO 2014/11/17

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

Troy Chang Manage Signed for and on behalf SGS TAIWAN LTD. Chemical Laboratory - Taipei

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號碼(No.): CE/2014/B1174 日期(Date): 2014/11/17

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Test Report

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

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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)		方法偵測 極限値 (MDL)	結果 (Result)
(100t Items)	(onit)			No.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合 電漿原子發射光譜儀檢測。/ With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 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.
六價络 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法,以UV-VIS檢测. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
绨 / Antimony (Sb)	mg/kg	参考US EPA 3052方法,以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3052方法,以感應耦合電漿原 子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.

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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	結果 (Result)
(lest items) (Unit)		(method)	(MDL)	No.1
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%	参考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	参考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	%	參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No.: 117-84-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	參考EN 14372, 以氣相層析/質譜儀檢測。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	%	參考EN 14372, 以氣相層析/質譜儀檢測。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	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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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result)
(Test Items)	(onit)	(method)	(MDL)	No.1
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	参考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	参考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
六溴環十二烷及所有主要被辨别出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321: 2008方法, 以氣相層析/ 質譜儀檢測. / With reference to IEC 62321: 2008 method. 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.
최素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n.d.

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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.)

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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	結果 (Result)
(lest flems)	(Unit)	(Method)	(MDL)	No.1
多溴聯苯總和 / Sum of PBBs	mg/kg		*:	n.d.
一溴聯苯 / Monobromobiphenyl	mg/kg	1	5	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg	1	5	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg	7	5	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg	7	5	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg	1	5	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg	1	5	n.d.
入溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg	A STATE OF THE STA	5	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg	参考IEC 62321: 2008方法,以氣相層析/ 實譜儀檢測。/ With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		(#3	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	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.
入溴聯苯醚 / 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.

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(臺廣精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)

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備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未检出)
- 3. MDL = Method Detection Limit (方法偵測極限値)
- 4. "-" = Not Regulated (無規格値)
- 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别單一材質的含量。(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1 μ g/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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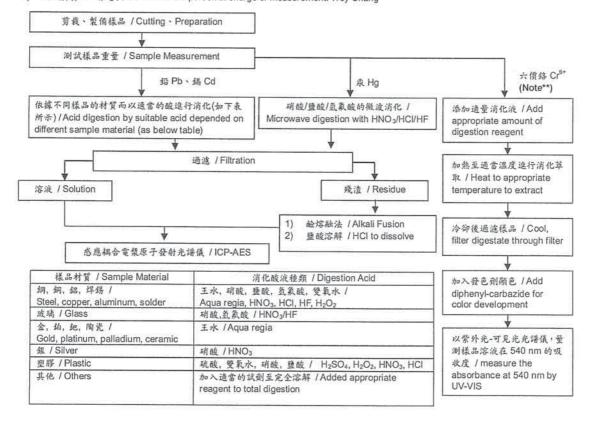
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 测试人員:楊登倬 / Name of the person who made measurement: Climbgreat Yang
- 测试负责人: 張啓與 / Name of the person in charge of measurement: 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°C

(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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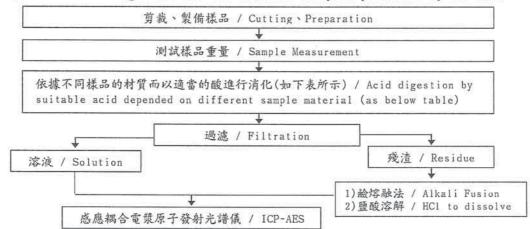
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: 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)



纲,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO3, HC1, HF, H2O2
玻璃 / Glass	硝酸,氫氟酸 / HNOs/HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNOs
型膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / HaSO4, HaO2, HNO3, HC1
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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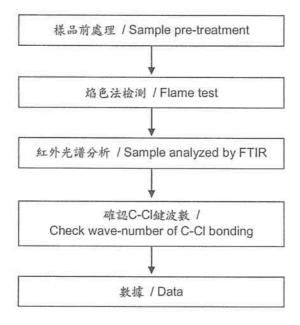
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聚氯乙烯物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

- 測試人員: 林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人: 張啓興 / Name of the person in charge of measurement: Troy Chang



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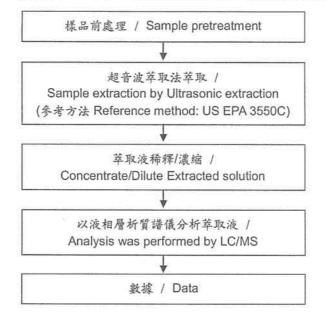
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全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負责人:張啓興 / Name of the person in charge of measurement: Troy Chang



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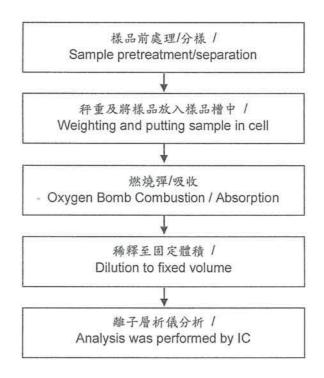
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員:陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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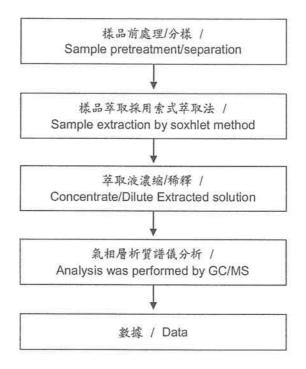
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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Test Report

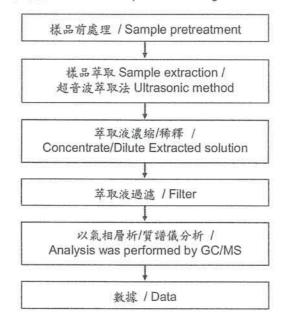
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人: 張啓興 / Name of the person in charge of measurement: Troy Chang



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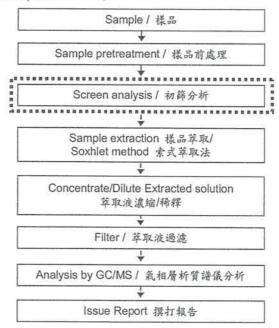
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人: 張啓與 / Name of the person in charge of measurement: Troy Chang 初次测试程序 / First testing process -

選擇性篩檢程序 / Optional screen process ********

確認程序 / Confirmation process - · - · ▶



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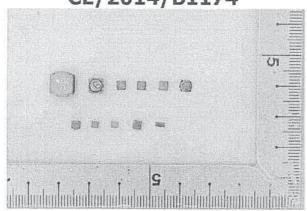
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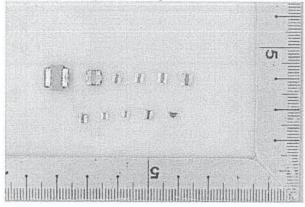
* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位。*

(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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