



Specification for Approval

Date: 2019/8/1

深圳臺慶 Customer:

HDCE020D D47V

	TAI-TECH P/N:	HPC3020B-R471						
	CUSTOMER P/N:							
	DESCRIPTION:							
	QUANTITY:	pcs	; 					
REM	MARK:							
	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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TAIPAQ ELECTRONICS (SIHONG) CO., LTD JIN SHA JIANG ROAD , CONOMIC DEVELOPMENT ZONE SIHONG ,

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R&D Center

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Power Inductor

HPC5020B-R47Y

	ECN HISTORY LIST							
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN			
1.0	19/08/01	新發行	楊祥忠	詹偉特	張嘉玲			
備								
註								

Power Inductor

HPC5020B-R47Y

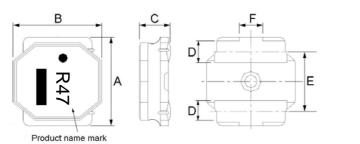
1. Features

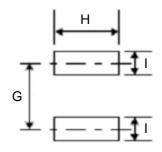
- 1. This specification applies Low Profile Power Inductors.
- 2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 3. Operating temperature:-40~+125 $^{\circ}$ C (Including self-temperature rise)





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.

3. Part Numbering

HPC	5020	B	-	R47	Y
Α	В	С		D	Е

A: Series

B: Dimension

C: Control S/N

D: Inductance R47=0.47uH
E: Inductance Tolerance Y=±30%

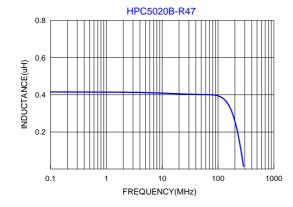
4. Specification

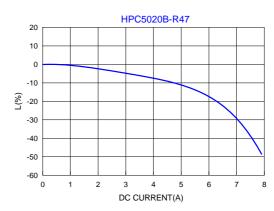
TAI-TECH	Inductance	Tolerance	Test Frequency	SRF	DCR	I sat	I rms
Part Number	(uH)	(%)	(Hz)	(MHz) min.	(Ω) ±20%	(A) max.	(A) max.
HPC5020B-R47Y	0.47	±30%	1V100K	230	0.012	6.1	5.0

Note:

Isat: Based on inductance change ($\triangle L/L0$: \le -30%) @ ambient temp. 25°C Irms: Based on temperature rise. ($\triangle T: 40$ °C typ.)

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

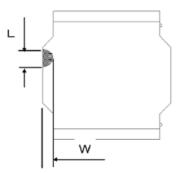




TAI-TECH TBM02-190700939 P3

Core chipping

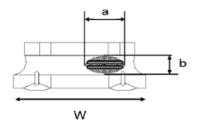
The appearance standard of the chipping size on top side, and bottom side ferrite core is listed below.



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

Void appearance tolerance Limit

Size of voids occurring to coating resin is specified below.



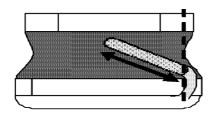
Exposed wire tolerance limit of coating resin part on product side.

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

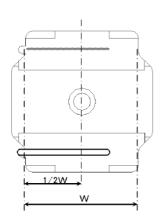
- 1. Width direction (dimension a): Acceptable when a \leq w/2 Nonconforming when a > w/2
- 2. Length direction (dimension b): Dimension b is not specified.
- 3. The total area of exposed wire occurring to each sides is not greater than 50% of coating resin area, and is acceptable.

External appearance criterion for exposed wire

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



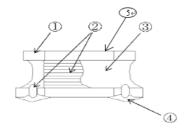
5. Electrode appearance criterion for exposed wire



Cross section of joint part	Appearance judgment
Only top side of wire is exposed. (regardless of whole tope side of wire exposed)	
Wire is soldered insufficiently and less than half of outer diameter is covered with solder.	Less than half of width of insufficiently soldered portion shall be acceptable. (More than half shall be segregated as reject.)

 TAI-TECH
 TBM02-190700939
 P4

6. Material List



No.	Item Material		
1	Core	Ni-Zn ferrite	
2	Wire	Enameled Copper Wire	
3	Glue	Epoxy with magnetic powder	
4	Terminal	Ag/Ni/Sn+Sn Solder	
5	Ink	Epoxy resin Color : silver	

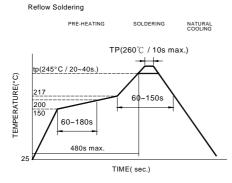
7. Reliability and Test Condition

Item	Performance	Test Condition
Operating temperature	-40~+125℃ (Including self - temperature rise)	
Storage temperature	-40~+125℃ (on board)	
Electrical Performance 1	rest	,
Inductance	Refer to standard electrical characteristics list.	HP4284A,CH11025,CH3302,CH1320,CH1320S LCR Meter.
DCR		CH16502,Agilent33420A Micro-Ohm Meter.
Saturation Current (Isat)	∆L≤30%	Saturation DC Current (Isat) will cause L0 to drop \triangle L(%)
		Heat Rated Current (Irms) will cause the coil temperature rise
	Association A T40%	△T(°C)
Heat Rated Current (Irms)	Approximately △T40°C	1.Applied the allowed DC current
		2.Temperature measured by digital surface thermometer
Reliability Test		
Life Test		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles) Temperature: 125±2°C Applied current: rated current Duration: 1000±12hrs Measured at room temperature after placing for 24±2 hrs
Load Humidity		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles Humidity: 85±2% R.H, Temperature: 85℃±2℃ Duration: 1000hrs Min. with 100% rated current Measured at room temperature after placing for 24±2 hrs
Moisture Resistance	Appearance: No damage. Inductance: within±10% of initial 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 1. Baked at50°C for 25hrs, measured at room temperature after placing for 4 hrs. 2. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs. 3. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25°C in 2.5hrs. 4. Seep 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 frequency of 10 to 55 Hz to 10 Hz, measure at room temperature after placing for 1~2 hrs.
Thermal shock		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: 125±2°C 30±5min Number of cycles: 500 Measured at room temperature after placing for 24±2 hrs

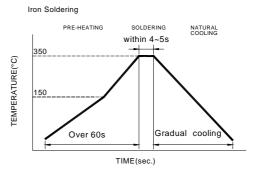
TAI-TECH TBM02-190700939 P5

Item	Performance	Test Condition		
Vibration		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. Inductance: 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: =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.		
Shock		Type Peak value duration (D) (ms) Wave form (Vi)ft/sec		
Onook		SMD 50 11 Half-sine 11.3 Lead 50 11 Half-sine 11.3		
Solderability Resistance to Soldering Heat	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 Number of heat cycles: 1 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 RDC: within ±15% of initial value and shall not exceed the specification value	Preconditioning: Run through IR reflow for 2 times.(IPC/JEI J-STD-020DClassification Reflow Profiles With the component mounted on a PCB with the device to tested, apply a force ((>0805inch(2012mm):1kg ,<=0805inch(2012mm):0.5kg)) to side of a device being tested. This force shall be applied for 60 +1 seconds. Also the force shall be applied with the properties of the properties of the component being tested.		

8. Soldering



Reflow times: 3 times max.

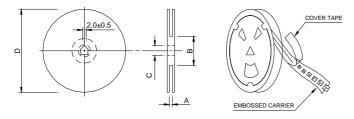


Iron Soldering times: 1 times max.

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 TBM02-190700939
 P6

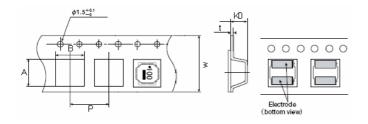
9. Packaging Information

(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

(2) Tape Dimension



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.



號碼(No.): CE/2018/B1281 日期(Date): 2018/11/15 頁數(Page): 1 of 16

Test Report

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.)

林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.

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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)

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 . DFPA SERIES

收件日期(Sample Receiving Date)

2018/11/08

測試期間(Testing Period)

2018/11/08 TO 2018/11/15

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

Signed for and on be SĞS TAIWAN LTD. Chemical Laboratory - Taipei

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號碼(No.): CE/2018/B1281

日期(Date): 2018/11/15 頁數(Page): 2 of 16

Test Report

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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)	测試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鐍 / 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 reference to IEC 62321-5 (2013) and performed by ICP-AES.	2	n. d.
鉛 / Lead (Pb)	mg/kg	参考IEC 62321-5 (2013),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.
乘 / 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 62321-7-2 (2017),以UV-VIS 檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.	8	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



Test Report

號碼(No.): CE/2018/B1281

日期(Date): 2018/11/15 頁數(Page): 3 of 16

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測試項目 (Test Items)	單位 (Unit)	测試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
多溴聯苯總和 / Sum of PBBs	mg/kg	1	_	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	1	5	n. d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg	1 Γ	5	n. d.
五溴聯苯 / Pentabromobiphenyl	mg/kg	1 Γ	5	n. d.
六溴聯苯 / Hexabromobiphenyl	mg/kg	1 Γ	5	n. d.
七溴聯苯 / Heptabromobiphenyl	mg/kg]	5	n. d.
八溴聯苯 / Octabromobipheny1	mg/kg		5	n. d.
九溴聯苯 / Nonabromobiphenyl	mg/kg	】 参考IEC 62321-6 (2015),以氣相層析	5	n. d.
十溴聯苯 / Decabromobiphenyl	mg/kg	儀/質譜儀檢測. / With reference to	5	n. d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	IEC 62321-6 (2015) and performed	-	n. d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg	by GC/MS.	5	n. d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg	1 Γ	5	n. d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg	1	5	n. d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	1	5	n. d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	Ī	5	n. d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	1 Γ	5	n. d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg	1	5	n. d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg	1 [5	n. d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg	1	5	n. d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg]	5	n. d.

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號碼(No.): CE/2018/B1281

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頁數(Page): 4 of 16

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法負測 極限値 (MDL)	結果 (Result) No.1
鄰苯二甲酸丁苯甲酯 / 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.
鄉苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	mg/kg	參考IEC 62321-8 (2017),以氣相層析	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	儀/質譜儀檢測. / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n, d,
鄭苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	mg/kg		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 / DNPP (Di-n-pentyl phthalate) (CAS No.: 131-18-0)	mg/kg		50	n. d.

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號碼(No.): CE/2018/B1281

Test Report

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(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.)

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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)

測試項目 (Test Items)	單位 (Unit)	测試方法 (Method)	方法偵测 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 (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	参考IEC 62321 (2008),以氣相層析儀/質譜儀檢測./With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n. d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	参考US EPA 3550C (2007),以液相層 析儀/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),以液相層 析儀/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	10	n, d.
绨 / 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.

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號碼(No.): CE/2018/B1281

日期(Date): 2018/11/15

頁數(Page): 6 of 16

Test Report

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測試項目 (Test Items)	單位 (Unit)	测試方法 (Method)	方法侦测 極限値 (MDL)	結果 (Result) No.1
鹵素 / Halogen				
鹵素(氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg		50	n. d.
鹵素(氣)/ Halogen-Chlorine (C1) (CAS No.: 22537-15-1)	mg/kg	参考BS EN 14582 (2016),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 (2016). Analysis was performed by IC.	50	n. d.
鹵素(碘)/ Halogen-Iodine(I)(CAS No.: 14362-44-8)	mg/kg		50	n. d.

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.)

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號碼(No.): CE/2018/B1281

日期(Date): 2018/11/15 頁數(Page): 7 of 16

Test Report

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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 lug/m^2 .)

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Test Report

號碼(No.): CE/2018/B1281

日期(Date): 2018/11/15

頁數(Page): 8 of 16

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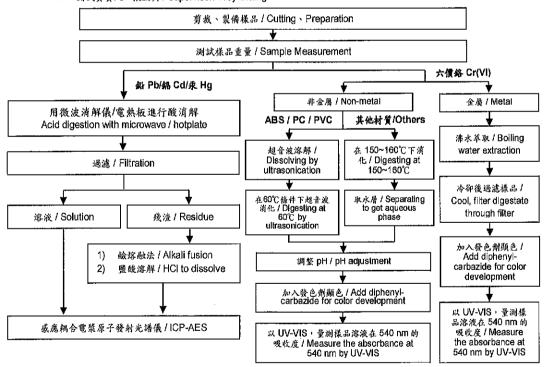
重金屬流程圖 / Analytical flow chart of Heavy Metal

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)

■ 測試人員:陳恩臻 / Technician : Rita Chen

■ 測試負責人:張啟與 / Supervisor: Troy Chang



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Test Report

號碼(No.): CE/2018/B1281

日期(Date) : 2018/11/15

頁數(Page): 9 of 16

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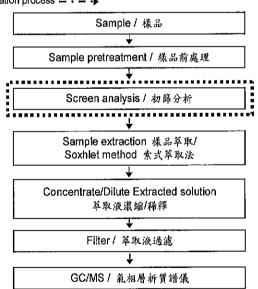
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

測試人員:涂雅苓 / Technician: Yaling Tu

■ 測試負責人:張啟與 / 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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Test Report

號碼(No.): CE/2018/B1281

日期(Date): 2018/11/15

頁數(Page): 10 of 16

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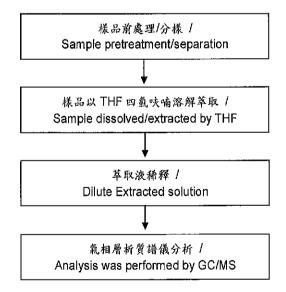
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

測試人員:涂雅苓 / Technician: Yaling Tu

測試負責人:張啟興 / Supervisor: Troy Chang

【测試方法/Test method: IEC 62321-8】



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Test Report

號碼(No.): CE/2018/B1281

日期(Date): 2018/11/15

頁數(Page): 11 of 16

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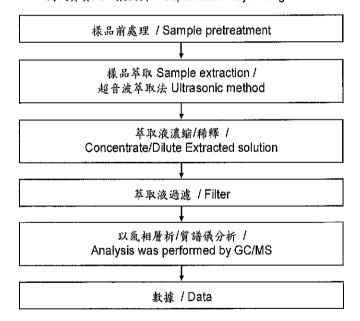
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

- 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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Test Report

號碼(No.): CE/2018/B1281

日期(Date): 2018/11/15

頁數(Page): 12 of 16

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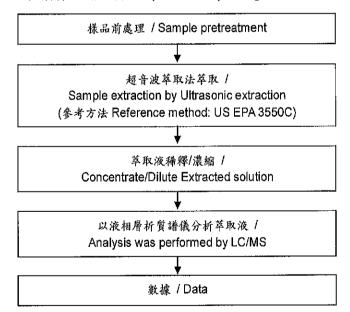
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

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



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Test Report

號碼(No.): CE/2018/B1281

日期(Date): 2018/11/15

頁數(Page): 13 of 16

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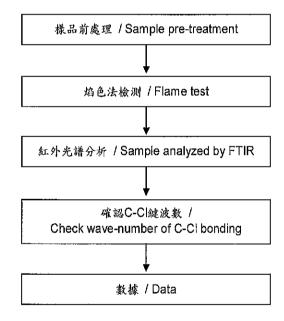
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聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC

- 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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Test Report

號碼(No.): CE/2018/B1281 日期(Date): 2018/11/15

頁數(Page): 14 of 16

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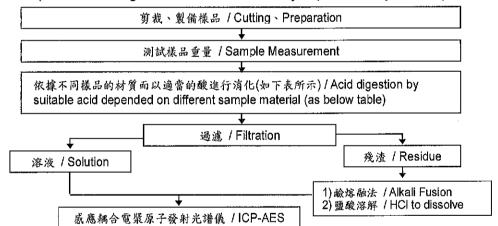
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根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

- 測試人員:陳恩臻 / Technician: Rita Chen
- 測試負責人:張啟與 / Supervisor: Troy Chang

元素以 ICP-AES 分析的消化流程圈 (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, HCl, HF, H₂O₂
玻璃 / Glass	硝酸,氫氟酸 / HNO ₃ /HF
金,鈶,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H2SO4, H2O2, HNO3, 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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號碼(No.): CE/2018/B1281

日期(Date): 2018/11/15

頁數(Page): 15 of 16

Test Report

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.)

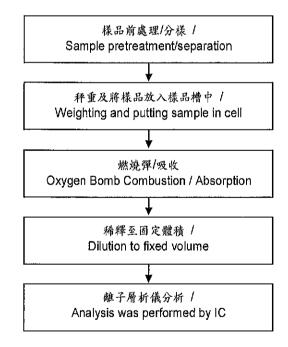
桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(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)

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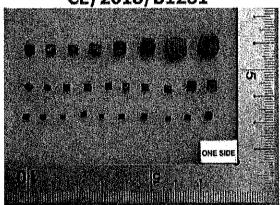
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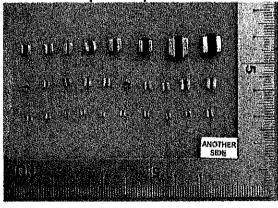
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> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

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** 報告結尾 (End of Report) **

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