

# Specification for Approval

Date: 2016/09/13

Customer : 深圳臺慶

TAI-TECH P/N: **TPRHC1207F-SERIES**

CUSTOMER P/N:

DESCRIPTION:

QUANTITY: \_\_\_\_\_ pcs

REMARK:		
Customer Approval Feedback		

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**SMD Type Power Inductor**

TPRHC1207F-SERIES

**ECN HISTORY LIST**

REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN
1.0	16/09/13	新發行	楊祥忠	詹偉特	何秦芝
備 註					

# SMD Type Power Inductor

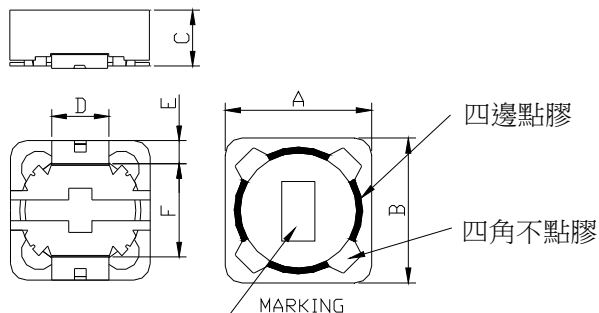
TPRHC1207F-SERIES

## 1. Features

- 1.Magnetic Shielded surface mount inductor with high current rating.
- 2.Low resistance to keep power loss minimum.
- 3.100% Lead(Pb) & Halogen-Free and RoHS compliant.



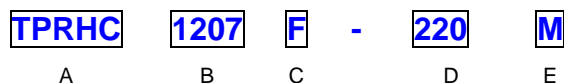
## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
TPRHC1207F	12.8 max.	12.8 max.	8.5 max.	5.0 ref.	2.2 ref.	7.6 ref.

Units: mm

## 3. Part Numbering



A: Series (the tin clip)

B: Dimension

C: Lead free type

D: Inductance

220=22.0uH, 2R4=2.4uH, 221=220uH

E: Inductance Tolerance

M=±20%, Y=±30%

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
TPRHC 1207F-1R2Y	1.2	± 30%	1V/100K	0.0070	9.80
TPRHC 1207F-2R2Y	2.2	±30%	1V/100K	0.0115	8.00
TPRHC 1207F-2R4Y	2.4	± 30%	1V/100K	0.0115	8.00
TPRHC 1207F-3R3Y	3.3	± 30%	1V/100K	0.0135	12.00
TPRHC 1207F-3R5Y	3.5	± 30%	1V/100K	0.0135	7.50
TPRHC 1207F-4R7Y	4.7	± 30%	1V/100K	0.0158	6.80
TPRHC 1207F-6R1Y	6.1	± 30%	1V/100K	0.0176	6.60
TPRHC 1207F-6R8Y	6.8	±30%	1V/100K	0.0185	6.20
TPRHC 1207F-7R6Y	7.6	± 30%	1V/100K	0.0200	5.90
TPRHC 1207F-100M	10	± 20%	1V/1K	0.0216	5.40
TPRHC 1207F-120M	12	± 20%	1V/1K	0.0243	4.90

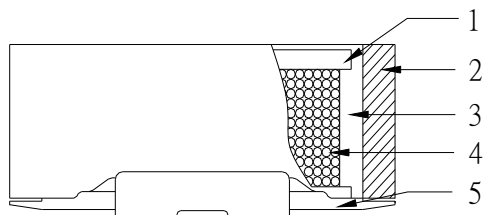
TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) max.	IDC (A) max.
TPRHC 1207F-150M	15	$\pm 20\%$	1V/1K	0.0270	4.50
TPRHC 1207F-180M	18	$\pm 20\%$	1V/1K	0.0392	3.90
TPRHC 1207F-220M	22	$\pm 20\%$	1V/1K	0.0432	3.60
TPRHC 1207F-270M	27	$\pm 20\%$	1V/1K	0.0459	3.40
TPRHC 1207F-330M	33	$\pm 20\%$	1V/1K	0.0648	3.00
TPRHC 1207F-390M	39	$\pm 20\%$	1V/1K	0.0729	2.75
TPRHC 1207F-470M	47	$\pm 20\%$	1V/1K	0.1000	2.50
TPRHC 1207F-560M	56	$\pm 20\%$	1V/1K	0.1100	2.35
TPRHC 1207F-680M	68	$\pm 20\%$	1V/1K	0.1400	2.10
TPRHC 1207F-820M	82	$\pm 20\%$	1V/1K	0.1600	1.95
TPRHC 1207F-101M	100	$\pm 20\%$	1V/1K	0.2200	1.70
TPRHC 1207F-121M	120	$\pm 20\%$	1V/1K	0.2500	1.60
TPRHC 1207F-151M	150	$\pm 20\%$	1V/1K	0.2800	1.42
TPRHC 1207F-181M	180	$\pm 20\%$	1V/1K	0.3500	1.30
TPRHC 1207F-221M	220	$\pm 20\%$	1V/1K	0.3900	1.16
TPRHC 1207F-271M	270	$\pm 20\%$	1V/1K	0.5600	1.06
TPRHC 1207F-331M	330	$\pm 20\%$	1V/1K	0.6400	0.95
TPRHC 1207F-391M	390	$\pm 20\%$	1V/1K	0.7000	0.88
TPRHC 1207F-471M	470	$\pm 20\%$	1V/1K	0.9800	0.79
TPRHC 1207F-561M	560	$\pm 20\%$	1V/1K	1.0700	0.73
TPRHC 1207F-681M	680	$\pm 20\%$	1V/1K	1.4600	0.67
TPRHC 1207F-821M	820	$\pm 20\%$	1V/1K	1.6400	0.60
TPRHC 1207F-102M	1000	$\pm 20\%$	1V/1K	1.8200	0.55

Note:

Based on inductance change ( $\Delta L/L_0 : \leq -35\%$ ) @ ambient temp. 25°C

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

## 5. Material List



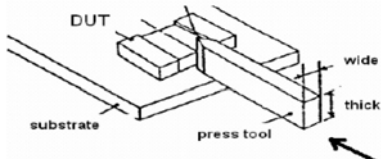
No.	Item	Materials
1	Core	Ferrite Core (DR Type)
2	Core	Ferrite Core (RI Type)
3	Glue	Epoxy
4	Wire	Copper Wire
5	Clip	The Tin Clip

## 6. Schematic Diagram

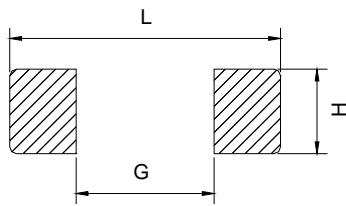


## 7. Reliability and Test Condition

Item	Performance	Test Condition
Operating temperature	-40~+125°C (Including self - temperature rise)	
Storage temperature	-40~+125°C (on board)	
<b>Electrical Performance Test</b>		
Inductance	Refer to standard electrical characteristics list.	HP4284A, CH11025, CH3302, CH1320, CH1320S LCR Meter.
DCR		CH16502, Agilent33420A Micro-Ohm Meter.
Saturation Current (Isat)	$\Delta L \leq 35\%$ .	Saturation DC Current (Isat) will cause L0 to drop $\Delta L(\%)$
Heat Rated Current (Irms)	Approximately $\Delta T 40^\circ\text{C}$	Heat Rated Current (Irms) will cause the coil temperature rise $\Delta T(^\circ\text{C})$ without core loss. 1. Applied the allowed DC current 2. Temperature measured by digital surface thermometer
<b>Reliability Test</b>		
Life Test	Appearance : No damage. Inductance : within $\pm 10\%$ of initial value Q : Shall not exceed the specification value. RDC : within $\pm 15\%$ of initial value and shall not exceed the specification value	Preconditioning: Run through IR reflow for 2 times.( IPC/JEDEC J-STD-020D Classification Reflow Profiles) Temperature : 125 $\pm 2^\circ\text{C}$ (Inductor) Applied current : rated current Duration : 1000 $\pm 12$ hrs Measured at room temperature after placing for 24 $\pm 2$ hrs
Load Humidity		Preconditioning: Run through IR reflow for 2 times.( IPC/JEDEC J-STD-020D Classification Reflow Profiles) Humidity : 85 $\pm 2\%$ R.H, Temperature : 85 $\pm 2^\circ\text{C}$ Duration : 1000hrs Min. with 100% rated current Measured at room temperature after placing for 24 $\pm 2$ hrs
Moisture Resistance		Preconditioning: Run through IR reflow for 2 times.( IPC/JEDEC J-STD-020D Classification Reflow Profiles) 1. Baked at 50 $^\circ\text{C}$ for 25hrs, measured at room temperature after placing for 4 hrs. 2. Raise temperature to 65 $\pm 2^\circ\text{C}$ 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25 $^\circ\text{C}$ in 2.5hrs. 3. Raise temperature to 65 $\pm 2^\circ\text{C}$ 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25 $^\circ\text{C}$ in 2.5hrs, keep at 25 $^\circ\text{C}$ for 2 hrs then keep at -10 $^\circ\text{C}$ for 3 hrs 4. Keep at 25 $^\circ\text{C}$ 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.

Item	Performance	Test Condition															
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															
Vibration	Appearance : No damage. Inductance : within±10% of initial value Q : 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	RDC : within ±15% of initial value and shall not exceed the specification value	<table border="1"> <thead> <tr> <th>Type</th> <th>Peak value (g/s)</th> <th>Normal duration (D) (ms)</th> <th>Wave form</th> <th>Velocity change (Vj)ft/sec</th> </tr> </thead> <tbody> <tr> <td>SMD</td> <td>50</td> <td>11</td> <td>Half-sine</td> <td>11.3</td> </tr> <tr> <td>Lead</td> <td>50</td> <td>11</td> <td>Half-sine</td> <td>11.3</td> </tr> </tbody> </table>	Type	Peak value (g/s)	Normal duration (D) (ms)	Wave form	Velocity change (Vj)ft/sec	SMD	50	11	Half-sine	11.3	Lead	50	11	Half-sine	11.3
Type	Peak value (g/s)	Normal duration (D) (ms)	Wave form	Velocity change (Vj)ft/sec													
SMD	50	11	Half-sine	11.3													
Lead	50	11	Half-sine	11.3													
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.															
Solderability	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															
Resistance to Soldering Heat		Number of heat cycles: 1 <table border="1"> <thead> <tr> <th>Temperature (°C)</th> <th>Time(s)</th> <th>Temperature ramp/immersion and emersion rate</th> </tr> </thead> <tbody> <tr> <td>260 ±5(solder temp)</td> <td>10 ±1</td> <td>25mm/s ±6 mm/s</td> </tr> </tbody> </table>	Temperature (°C)	Time(s)	Temperature ramp/immersion and emersion rate	260 ±5(solder temp)	10 ±1	25mm/s ±6 mm/s									
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. Recommended PC Board Pattern



L(mm)	G(mm)	H(mm)
12.6	7.0	5.4

### 9. Soldering

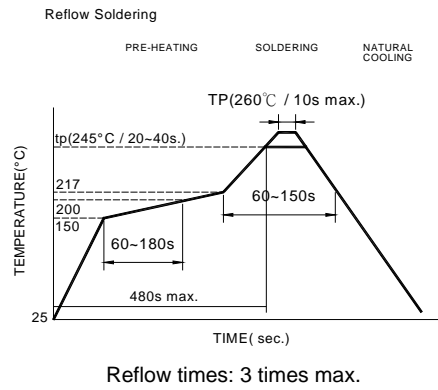


Fig.1

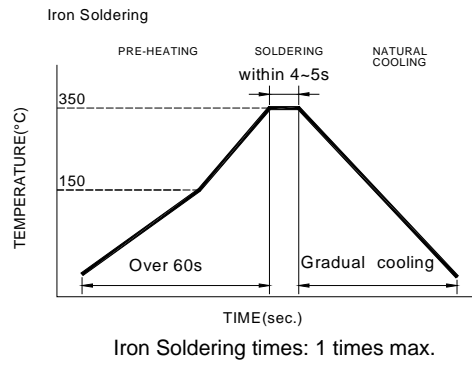
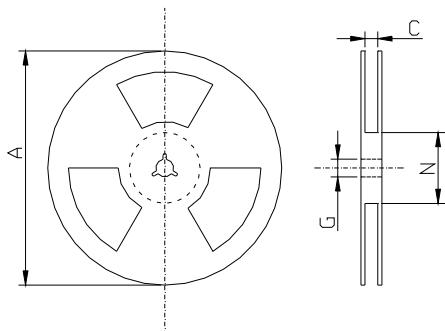
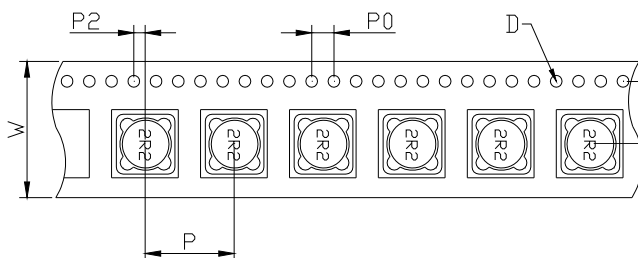


Fig.2

### 10. Packaging Information



Style	A(mm)	C(mm)	G(mm)	N(mm)
13"X24mm	330	24.5±0.5	13.5±0.5	100±1



Style	W(mm)	P(mm)	P2(mm)	D(mm)	Po(mm)	Packaging Qty(pcs)
24mm	24±0.3	16±0.1	2±0.1	1.5±0.25	4±0.1	400

**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.



## 測試報告 Test Report

號碼(No.) : CE/2016/25436

日期(Date) : 2016/03/07

頁數(Page): 1 of 11

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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(江蘇省宿遷市泗洪縣經濟開發區金沙南路-高新技術產業園 / HIGH-TECH INDUSTRIAL DISTRICT, JINSHAJIANG ROAD,  
SIHONG COUNTY ECONOMIC, SUQIAN CITY, JIANGSU)

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) : BASE TYPE CHOKE COIL/ INDUCTOR  
樣品型號(Style/Item No.) : TPRH、TPS、TPH、TPL、TPRHC SERIES  
收件日期(Sample Receiving Date) : 2016/02/26  
測試期間(Testing Period) : 2016/02/26 TO 2016/03/07

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

  
Troy Chang, Manager - Tech  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei

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# 測試報告

## Test Report

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SIHONG COUNTY ECONOMIC, SUQIAN CITY, JIANGSU)



### 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 極限值 (MDL)	結果 (Result)
				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.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.
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	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.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (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	參考IEC 62321-8 (111/321/CD), 以氣相層析儀/質譜儀檢測之。 / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl 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		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		50	n. d.
鄰苯二甲酸二異壬酯 / 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.
鹵素 / Halogen				
鹵素(氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析。 / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n. d.
鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		50	n. d.
鹵素(溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n. d.
鹵素(碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n. d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No. 1
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321-6: 2015方法, 以氣相 層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS.	-	n. d.
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	mg/kg		5	n. d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	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.
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.	

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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. 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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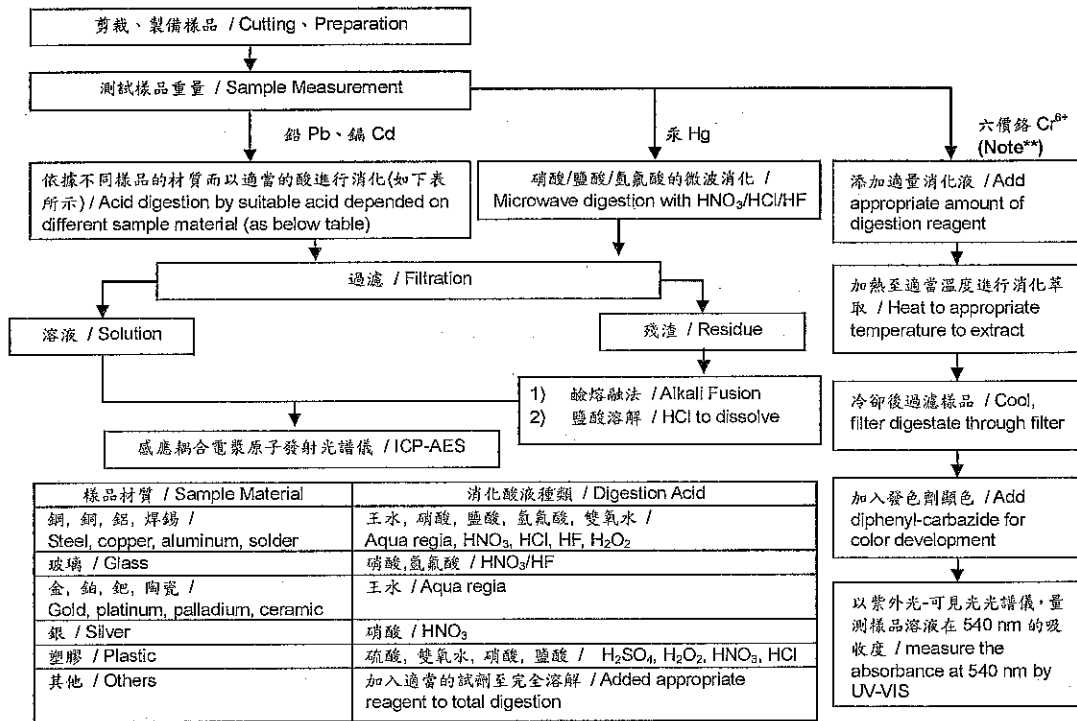


根據以下的流程圖之條件，樣品已完全溶解。(六價鉻 Cr<sup>6+</sup> 測試方法除外)

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: 楊登偉 / Technician: Climbgreat Yang

■ 測試負責人: 張啟興 / Supervisor: Troy Chang



### Note: (For IEC 62321)

(1) 針對非金屬材料加入鹼性消化液，加熱至 90~95°C 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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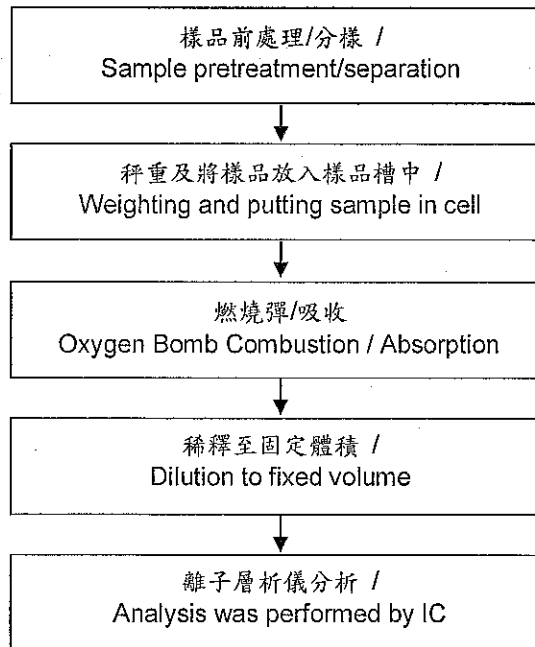
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### 鹵素分析流程圖 / Analytical flow chart of halogen content

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



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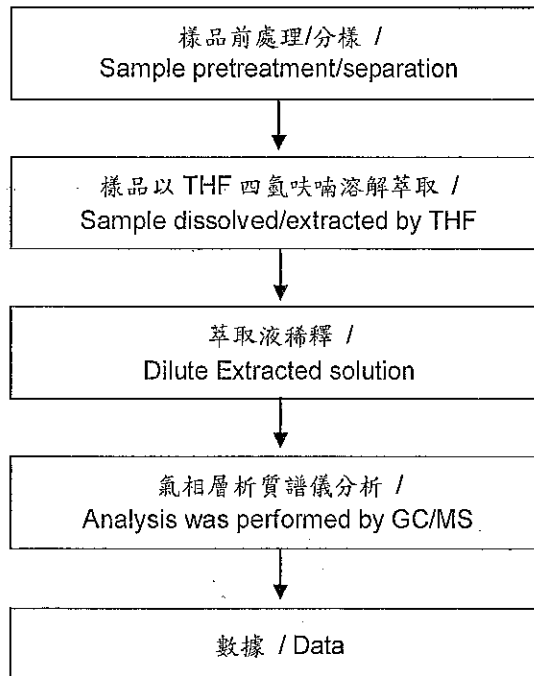
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## 可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員：徐毓明 / Name of the person who made measurement: Andy Shu
- 測試負責人：張啟興 / Name of the person in charge of measurement: Troy Chang

### 【測試方法/Test method: IEC 62321-8】



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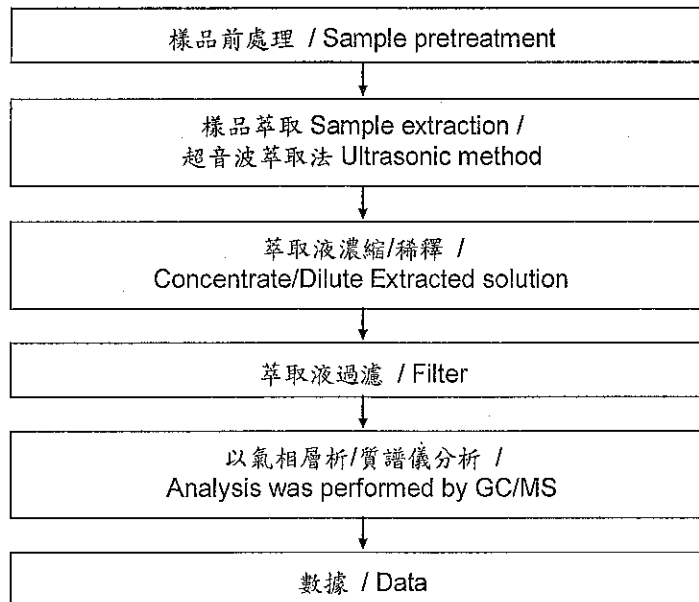
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## 六溴環十二烷分析流程圖 / HBCDD analytical flow chart

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



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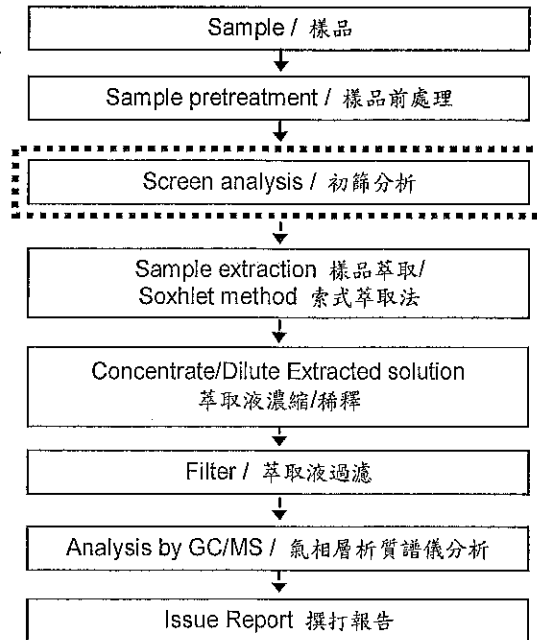
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## 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
  - 測試負責人：張啟興 / Name of the person in charge of measurement: 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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## 測試報告 Test Report

號碼(No.) : CE/2016/25436

日期(Date) : 2016/03/07

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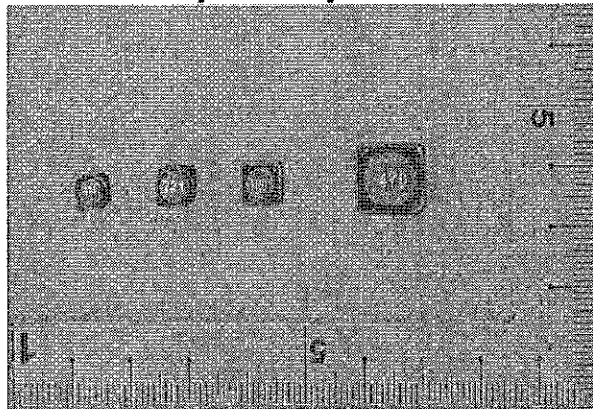
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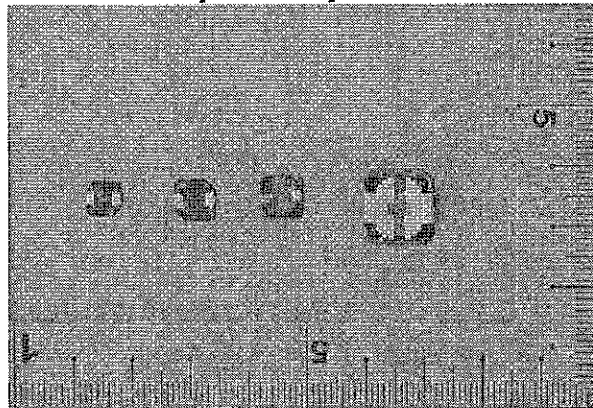
\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 \*

(The tested sample / part is marked by an arrow if it's shown on the photo.)

### CE/2016/25436



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