SMD Pulse Transformer

TXF453229NF-351

		ECN HISTOR	RY LIS	Γ	
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN
1.0	15/11/13	新發行	楊祥忠	林志鴻	孔妍暄
1.1	15/12/02	修改可靠度操作溫度 修改電路示意圖	楊祥忠	林志鴻	孔妍暄
1.2	15/12/18	第 4 項規格增加 Return Loss、DCMR	楊祥忠	林志鴻	孔妍暄
1.3	16/08/02	修改包裝卷軸及數量 包裝帶修改為無沖孔包裝帶 修改電路示意圖 修改 Dimension E、F、G、H、I 尺寸	楊祥忠	林志鴻	孔妍暄
備					
註					

SMD Pulse Transformer

TXF453229NF-351

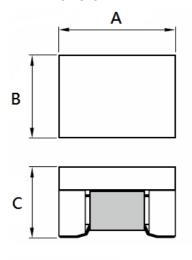
1. Features

- 1. SMD type pulse transformers.
- 2. TXF453229NF is small size and low profile 4.50X3.20X2.9 mm.
- 3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



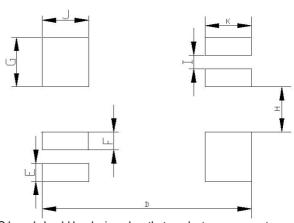


2. Dimension



Dimensions in mm

Recommended PC Board Pattern



PC board should be designed so that products can prevent damage from mechanical stress when warping the board. Products shall be positioned in the sideway direction against the mechanical stress to prevent failure.

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	l(mm)	J(mm)	K(mm)
453229NF	4.6±0.2	3.25±0.2	2.9 Max	5.0	0.45	0.35	0.60	1.60	0.50	1.00	0.80

Units: mm

3. Part Numbering

TXF 453229 N F - 351

A: Series

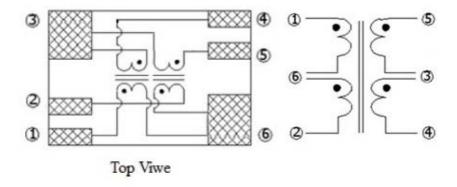
B: Dimension AxBxC
C: Material Ferrite Core
D: Number of Lines 4=4 lines
E: Inductance 351=350 uH

4. Specification

TAI-TECH Part Number	Inductance (uH) ①to② or ④to⑤	Test Frequency (Hz/V)	Insertion loss	Cp Capacitance (pF) ③to⑥	Turns ratio ①to② or ④to⑤
TXF453229NF-351	350 uH(typ)	100K/0.1	1-100MHZ -1.5dB Max	35pF(typ)	1:1

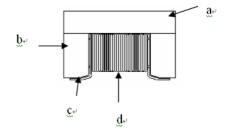
	Retu	DCMF	R(dB Min)			
1~30Mhz	40Mhz	50Mhz	60~80Mhz	100Mhz	1~60Mhz	60~100Mhz
-18	-14.4	-13.1	-12	-10	-35	-30

5.Schematic Diagram



6. Materials

No.	Description	Specification
a.	Upper Plate	Ferrite
b.	Core	Ferrite Core
С	Termination	Tin Pb Free
d	Wire	Enameled Copper Wire



7. Reliability and Test Condition

Item	Performance	Test Condition							
Operating temperature	-40~ +85℃ (Including self - temperature rise)								
Storage temperature	-40~ +85℃ (on board)								
Electrical Performance Test									
Ls		HP-4291A+HP-16092A							
Ср	Refer to standard electrical characteristics list.	HP-4192A							
Insertion Loss	reier to standard electrical characteristics list.	Agilent E5071C							
Return Loss		Agilent E5071C							

Reliability Test		
		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles)
		Temperature : 125±2°C
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 J-STD-020DClassification Reflow Profiles
Load Humidity		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
Moisture Resistance	Appearance: No damage. Inductance: within±10% of initial value RDC: within±15% of initial value and shall not exceed the specification value Cp: within ±15% of initial value and shall not Insertion Loss: within Specification Return Loss: within Specification	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, and 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 frequency of 10 to 55 Hz to 10 Hz, measure at room temperature after placing for 1~2 hrs. Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification
		Reflow Profiles
Thermal shock		Condition for 1 cycle Step1 : -40±2°C 30±5min
SHOCK		•
		Step2 : 25±2°C ≤0.5min
		Step3 : 105±2℃ 30±5min
		Number of cycles: 500 Measured at room temperature after placing for 24±2 hrs
		Oscillation Frequency: 10 ~ 2K ~ 10Hz for 20 minutes
Vibration		Equipment: Vibration checker
		Total Amplitude:1.52mm±10% Testing Time : 12 hours(20 minutes, 12 cycles each of 3
		orientations)。

Item	Performance	Test Condition					
Shock			Type SMD	Peak value (g's)	Normal duration (D) (ms)	Wave form	Velocity change (Vi)ft/sec
	Appearance: No damage. Inductance: within±10% of initial value RDC: within ±15% of initial value and shall not	Lead 50 11 Half-sine 11					
Bending	exceed the specification value Cp: within ±15% of initial value and shall not Insertion Loss: within Specification Return Loss: within Specification	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。	So Te Flu Dip	older: Sr emperat ux for le p time:	150°C,60sec n96.5% Ag3' ure: 245±5°C ad free: Ros 4±1sec mpletely cov	% Cu0.5%	ination	
Resistance to Soldering Heat	Appearance : No damage. Inductance : within±10% of initial value RDC : within ±15% of initial value and shall not	Nu	umber o	f heat cycles	s: 1		
Terminal Strength	exceed the specification value Cp: within ±15% of initial value and shall not Insertion Loss: within Specification Return Loss: within Specification	tim Re Wi tes (>0 tes ap	nes.(IPo eflow Pro ith the co sted, apo 0805:1k sted. The oplied for adually	C/JEDEC J- ofiles component m ply a force g , <=0805 is force shal	STD-020DC nounted on i:0.5kg)to the ll be conds. Also ply a	ne side of a	flow for 2 ne device to be device being nall be applied
			SI	DUT		ress tool	wide

8. Soldering and Mounting

8-1. 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.

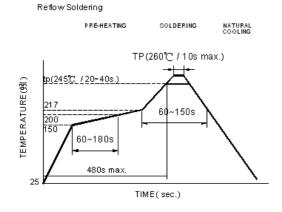
8-1.1 Solder re-flow:

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

8-1.3 Soldering Iron(Figure 2):

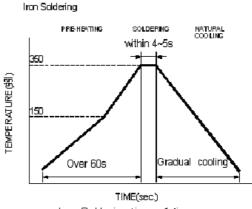
Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

- Never contact the ceramic with the iron tip
 Use a 20 watt soldering iron with tip diameter of 1.0mm
 Limit soldering time to 4–5 sec. • Preheat circuit and products to 150°C
- 355℃ tip temperature (max)



Reflow times: 3 times max.

Fig.1

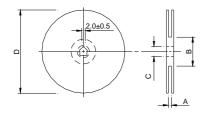


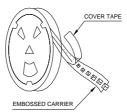
Iron Soldering times: 1 times max.

Fig.2

9. Packaging Information

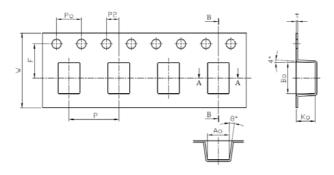
9-1. Reel Dimension





Туре	A(mm)	B(mm)	C(mm)	D(mm)
13"x12mm	12.5±0.5	100±2	13.5±0.5	330

9-2. Tape Dimension / 12mm

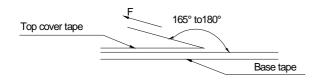


Series	P(mm)	Po(mm)	P2(mm)	Bo(mm)	Ao(mm)	Ko(mm)	D(mm)	E(mm)	F(mm)	W(mm)	t(mm)
TXF453229NF	8.00±0.10	4.00±0.10	2.00±0.05	4.90±0.10	3.60±0.10	3.00±0.10	1.05+0.10/-0.00	1.75±0.10	5.50±0.05	12.00±0.10	0.26±0.05

9-3. Packaging Quantity

Chip size	Chip/Reel	Inner Box	Carton
TXF453229NF	2000	4000	32000

9-4. 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 Humidity	Room atm	Tearing Speed		
(℃)	(%)	(hPa)	mm/min		
5~35	45~85	860~1060	300		

Application Notice

· Storage Conditions

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 $^{\circ}\mathrm{C}~$ 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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(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)

WIREWOUND SERIES

樣品型號(Style/Item No.)

WCM、HSF、HDMI、DVI、YCM、BCM、PCM、TCM、LCM、LPF、TXF、ACM、DCM、WIH

SERIES

收件日期(Sample Receiving Date)

2015/10/02

測試期間(Testing Period)

2015/10/02 TO 2015/10/12

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	参考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	参考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	参考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	参考IEC 62321: 2008方法,以UV-VIS 檢測. / With reference to IEC 62321: 2008 and performed by UV- VIS.	2	n. d.
銯 / 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	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.

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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	結果 (Result)
(Test Items)	(UIII L)	(Method)	(MDL)	No. 1
多溴聯苯總和 / Sum of PBBs	mg/kg		_	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.
へ溴聯苯 / Octabromobiphenyl	mg/kg	·	5	n, d.
九溴聯苯 / Nonabromobiphenyl	mg/kg	参考IEC 62321-6: 2015方法, 以氣相	5	n. d.
十溴聯苯 / Decabromobiphenyl	mg/kg	層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS.	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] Γ	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	1	5	n. d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	1	5	n. d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		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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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
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
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	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(氯)/ Halogen-Chlorine (C1) (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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(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.)

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(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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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result)
(TOBE TEOMS)	(01110)	(332 333 4)	(MDL)	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 (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	参考IEC 62321-8 (111/321/CD),以氣	50	n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	mg/kg	相層析儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was	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	performed by GC/MS.	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.

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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参考資訊(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/m².)

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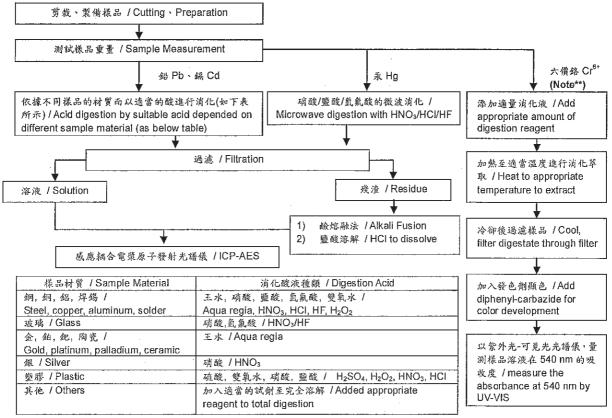
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- 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人: 張啟興 / Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62324)

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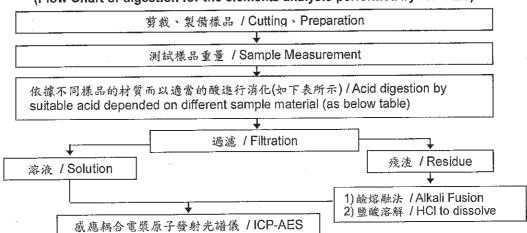
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- 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人:張啟興 / Name of the person in charge of measurement: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



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氯酸,雙氧水 / Aqua regia, HNO ₃ , HCI, HF, H ₂ O ₂
玻璃 / Glass	硝酸,氫氯酸 / HNO₃/HF
金,鉑,鲍,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO₃
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , 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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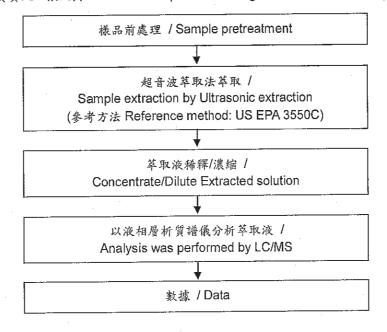
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全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

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



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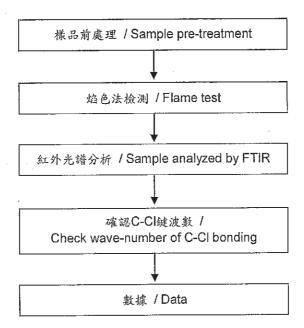
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聚氯乙烯物質判定分析流程圖 /

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: 張啟興 / Name of the person in charge of measurement: Troy Chang



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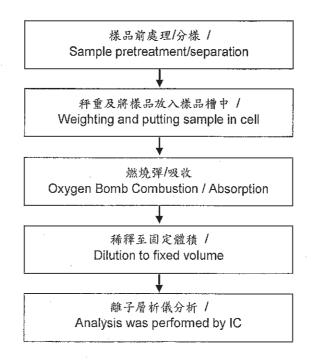
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鹵素分析流程圖 / Analytical flow chart of halogen content

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



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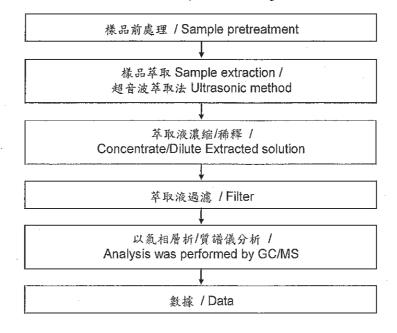
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

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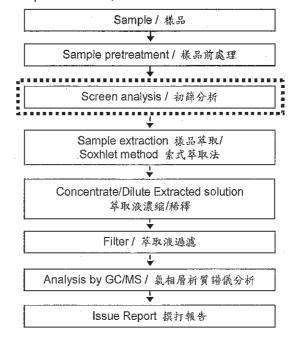
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 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 -

確認程序 / Confirmation process - - - - →



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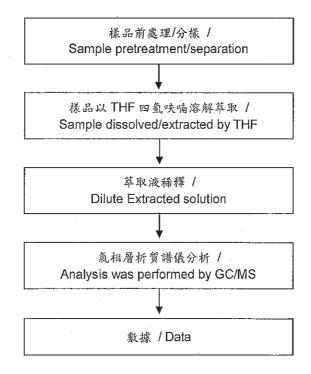
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

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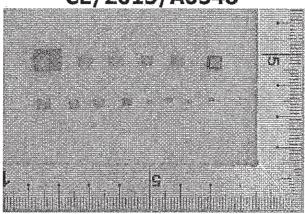
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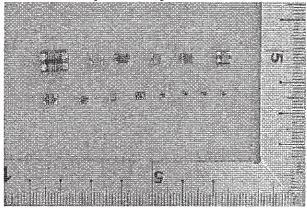
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> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

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