Mire Wound Type Common Mode Filter P1 WCM5025F2SF-501T40

ECN HISTORY LIST							
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN		
1.0	16/04/12	新發行	楊祥忠	林志鴻	孔妍暄		
備							
註							

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Wire Wound Type Common Mode Filter

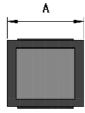
WCM5025F2SF-501T40

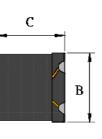
P2

1. Features

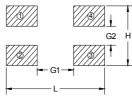
- 1. High common mode impedance at high frequency cause excellent noise suppression performance.
- 2. WCM5025F2SF series realizes small size and low profile.
- 3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

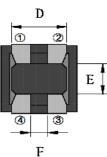
2. Dimension





Recommended PC Board Pattern





Series	L(mm)	H(mm)	G1(mm)	G2(mm)
WCM5025F2SF	5.5 ref.	4.4 ref.	2.0 ref.	0.9 ref.

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
WCM5025F2SF	4.8±0.3	5.0±0.3	2.50 Max.	3.5 typ.	2.2 typ.	1.1 typ

Units: mm

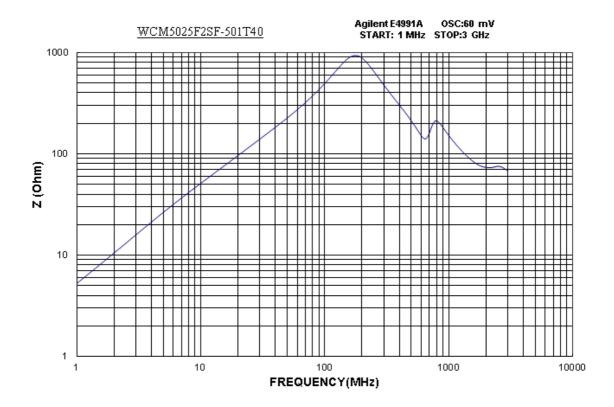
3. Part Numbering



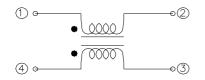
4. Specification

TAI-TECH Part Number	Common mode Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω)±40%	Rated Current (mA) Max.	Rated Volt. (Vdc)	IR (MΩ) min.
WCM5025F2SF-501T40	500(typ.)	100	0.019	4000	50	10

Halogen-free



5.Schematic Diagram



6. Reliability and Test Condition

ltem	Performance	Test Condition						
Operating temperature	-40~+125 $^{\circ}$ C (Including self - temperature rise)							
Storage temperature	-40~+125℃ (on board)							
Electrical Performance Test								
Z(common mode)		Agilent-4291A+ Agilent -16197A						
DCR	Refer to standard electrical characteristics list.	Agilent-4338B						
I.R.		Agilent4339						
Temperature Rise Test	Rated Current < 1A $\Delta T 20^{\circ}CMax$ Rated Current \geq 1A $\Delta T 40^{\circ}CMax$	1.Applied the allowed DC current. 2.Temperature measured by digital surface thermometer						

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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℃±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 Impedance : within±15% 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℃ for 25hrs, measured at room temperature after placing for 4 hrs. 2. Raise temperature to 65±2℃ 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25℃ in 2.5hrs. 3. Raise temperature to 65±2℃ 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25℃ in 2.5hrs. 4. Keep at 25℃ 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
	1	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				Tes	st Cone	dition	
			Туре	Peak val (g's)		Normal duration (D) (ms)	Wave form	Velocity change (Vi)ft/sec
Shock			SMD	50		11	Half-sine	11.3
	Appearance : No damage.		Lead	50		11	Half-sine	11.3
	Inductance : within±10% of initial value							
Bending	Impedance : within±15% of initial value RDC : within ±15% of initial value and shall not exceed the specification value	fol <0 Be <0	llowing d 0805:40x	limensior 100x0.8r epth: >=0 mm	ns: >= mm	=0805:40	rate of the <100x1.2mm	
Soderability	More than 95% of the terminal electrode should be covered with solder。	Sc Te Fli Di	older: Sn emperatu ux for lea ip time: 4		g3% 5℃。 Rosin	Cu0.5%	ination	
Resistance to Soldering Heat	Appearance : No damage. Inductance : within±10% of initial value Impedance : within±15% of initial value RDC : within ±15% of initial value and shall not exceed the specification value	T (° 2	emperat C) 60 ±5(sc	Ider	ime(0 ±1	(s) Tem and	pperature p/immersion emersion rate m/s ±6 mm/s	
Terminal Strength		tin Re W te: (> te: ap gr	eflow Pro ith the co sted, app 0805:1kg sted. Thi oplied for adually a	C/JEDEC offiles omponen ply a forc g , <=08 is force s r 60 +1 as not to	J-ST t mo e 305:0 hall t seco apply	TD-020DC unted on 0.5kg)to th De nds. Also	ne side of a the force sh	low for 2 e device to be device being all be applied
			1	DUT	N N	P	ress tool	wide thick

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 case that a soldering iron must be employed, the following precautions are recommended.

Preheat circuit and products to 150°C
 · Never contact the ceramic with the iron tip
 · Use a 20 watt soldering iron with tip diameter of 1.0mm
 · Lomm tip diameter (max)
 · Limit soldering time to 4~5 sec.

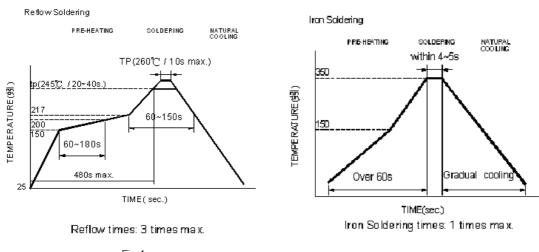


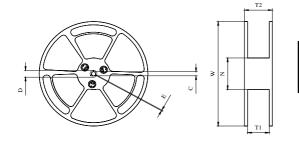
Fig.1

Fig.2

TAI-TECH

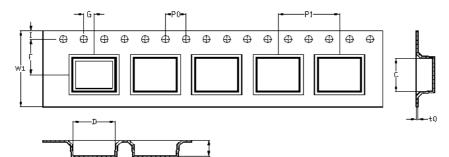
8.Packaging Information

8-1. Reel Dimension



Туре V	V(mm)	D(mm)	C(mm)	T1(mm)	N(mm)	T2(mm)	E(mm)
UR-13	330±1.5	21.5+0.5/-0	13+0.5-0.2	12.5+0.5/-0	100±1.5	16.9±0.4	2.00±0.5

8-2. Tape Dimension / 12mm

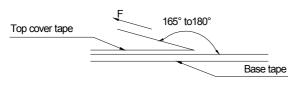


Series	size	W1(mm)	l(mm)	F(mm)	P0(mm)	G(mm)	P1(mm)	C(mm)	t0(mm)	D(mm)	H(mm)
WCM5025F2S	5025	12.00±0.3	1.75±0.1	5.50±0.1	4.00±0.1	2.00±0.1	8.00±0.1	5.30±0.1	0.35±0.05	5.30±0.1	2.50±0.1

8-3. Packaging Quantity

Chip size	Chip/Reel
WCM5025F2S	2500

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 Humidity	Room atm	Tearing Speed
(°C)	(%)	(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.
- 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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測試報告 Test Report ^{號碼(}	(No.) : CE/2015/A0548 日期(Date) : 2015/10/12	頁數(Page): 1 of 15
(耀鑽科技股份有限公司 / YOSONIC TECHNOI (慶邦電子元器件(泗洪)有限公司 / TAIPAQ 桃園市楊梅區幼獅工業區幼四路1號 / NO.] (江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 (桃園市中壢區中壢工業區長春六路15號 /)	ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.) LOGY CO., LTD.)	G-SU, CHINA) AIWAN)
以下測試様品係由申請廠商所提供 behalf of the applicant as): 様品名稱(Sample Description) 様品型號(Style/Item No.) 收件日期(Sample Receiving Date) 測試期間(Testing Period)	及確認 (The following sample(s) was/were submitt : WIREWOUND SERIES : WCM、HSF、HDMI、DVI、YCM、BCM、PCM、TCM、LCM SERIES : 2015/10/02 : 2015/10/02 TO 2015/10/12	

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

Troy Chang/Manager Tecl Signed for and on behal SGS TAIWAN LTD: Chemical Laboratory - Taipei

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測試報告 號碼(No.): CE/2015/A0548 **Test Report**

頁數(Page): 2 of 15

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

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日期(Date): 2015/10/12

测试结果(Test Results)

测试部位(PART NAME)No.1 : 整體混測 (MIXED ALL PARTS)

測試項目 (Test Itens)	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	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	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	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.
鎌 / 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,
鍼 / 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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測試報告 Test Report ^{號碼(No.)}

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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)
(lest liens)	(Unit)	(Method)	(MDL)	No. 1
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.
一溴聯苯 / Monobromobiphenyl	ng/kg	ή Γ	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] · [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	参考IEC 62321-6: 2015方法,以氣相	5	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n. d.
十溴聯苯 / Decabromobiphenyl	mg/kg	層析/質譜儀檢測. / With reference	5	n. d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	to 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 [5	n. d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n. d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	1 1	5	n. d.
五溴聯苯醚 / Pentabromodiphenyl ether	ng/kg		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	ng/kg	1 [5	n. d.

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測試報告 Test Report ^{號碼(No}

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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)
		(method)		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具構物 / 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方法, 以魚相層 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 (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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測試報告 Test Report ^{號碼(No.)}

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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 (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	参考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.
鄭苯二甲酸二異丁酯 / 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.

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測試報告 Test Report^{就碼(No}

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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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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1µg/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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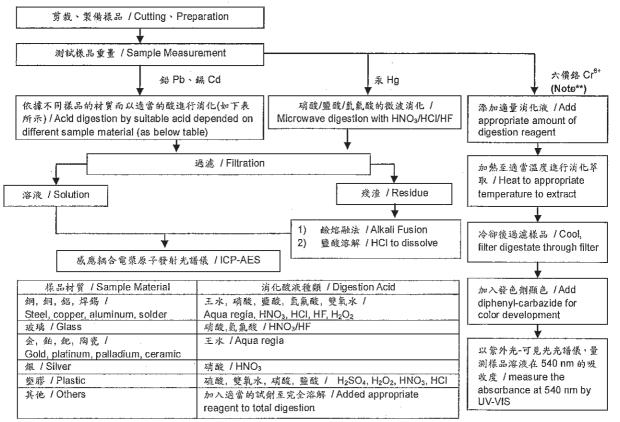
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- 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were 1) dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 测试人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang 2)
- 测試負責人: 張啟興 / Name of the person in charge of measurement: Troy Chang 3)



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-metailic material, add alkaline digestion reagent and heat to 90~95°C
- (2) 針對金屬材料加入純水,加熱至沸腾萃取. / For metallic material, add pure water and heat to boiling.

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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.
- 测試人員: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

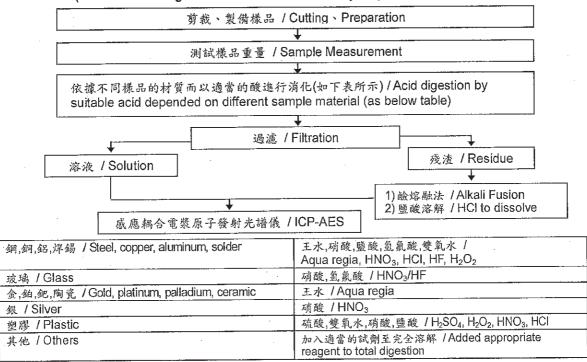
元素以 ICP-AES 分析的消化流程圖

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I MUTUKA UKANG BUTAKUKA DI UKANG BUTAKATA UK

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



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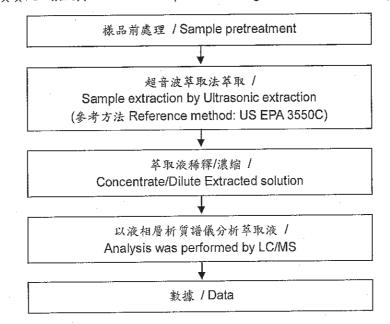
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全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

■ 测試人員: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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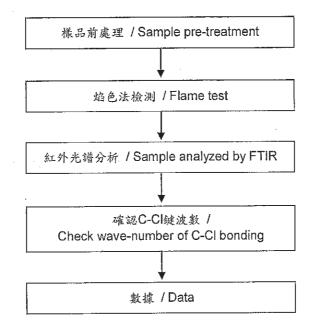
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聚氯乙烯物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

■ 测試人員:林建宇 / Name of the person who made measurement: Roy Lin

■ 测試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang



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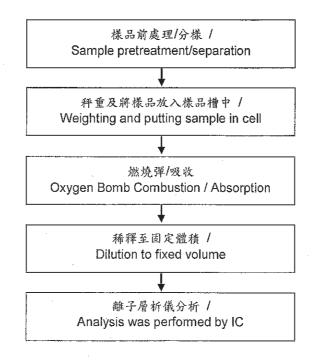
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鹵素分析流程圖 / Analytical flow chart of halogen content

測試人員:陳恩臻 / Name of the person who made measurement: Rita Chen

测試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang



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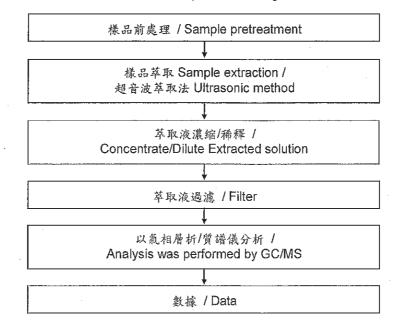
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

日期(Date): 2015/10/12

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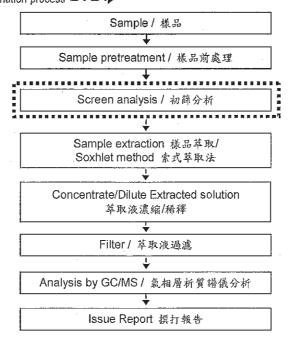
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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

確認程序 / Confirmation process -----



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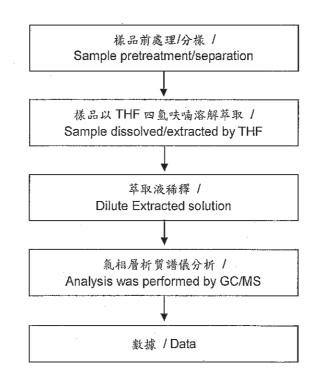
可塑劑分析流程圖 / Analytical flow chart of phthalate content

日期(Date): 2015/10/12

测試人員: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

【测試方法/Test method: IEC 62321-8】



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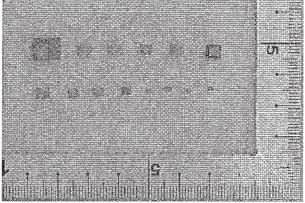
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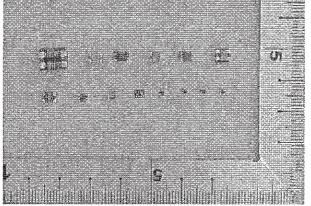
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> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

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