# Ferrite Chip Bead(Lead Free)

FCM1608KF-102T01

		ECN HISTOI	RY LIS	Γ	
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN
1.0	13/06/06	變更可靠度條件	楊祥忠	羅培君	張嘉玲
2.0	14/01/24	變更電鍍錫層厚度 3.0um min.=>3.5um min.	楊祥忠	羅培君	張嘉玲
3.0	14/08/01	變更 Reflow 圖示	楊祥忠	羅培君	張嘉玲
3.1	14/08/01	修正包裝帶尺寸	楊祥忠	羅培君	張嘉玲
4.0	14/10/13	訂正 1608 包裝帶 Ao 尺寸	楊祥忠	羅培君	張嘉玲
5.0	16/01/26	增訂可靠度 Thermal shock: (Bead) Step3:125±2℃ 30±5min	楊祥忠	詹偉特	張嘉玲
6.0	17/02/16	修訂 Recommended PC Board Pattern	楊祥忠	詹偉特	張嘉玲
備					
註					

**TAI-TECH KBM01-200600527** P2.

# Ferrite Chip Bead(Lead Free)

FCM1608KF-102T01

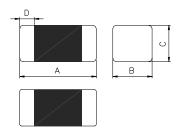
Certificate

Green Partner

## 1.Features

- 1. Monolithic inorganic material construction.
- 2. Closed magnetic circuit avoids crosstalk.
- 3. S.M.T. type.
- 4. Suitable for reflow soldering.
- 5. Shapes and dimensions follow E.I.A. spec.
- 6. Available in various sizes.
- 7. Excellent solder ability and heat resistance.
- 8. High reliability.
- 9.100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 10. Operating Temperature: -55~+125°C (Including self-temperature rise)

## 2.Dimensions



Chip Size						
Α	1.60±0.15					
В	0.80±0.15					
С	0.80±0.15					
D	0.30±0.20					

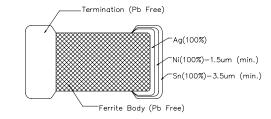
Units: mm

## 3.Part Numbering



D: Impedance  $\begin{array}{c} \text{D: Impedance} \\ \text{E: Packaging} \end{array} \qquad \begin{array}{c} \text{102=1000}\,\Omega \\ \text{T=Taping and Reel, B=Bulk(Bags)} \\ \end{array}$ 

F: Rated Current 01=100m

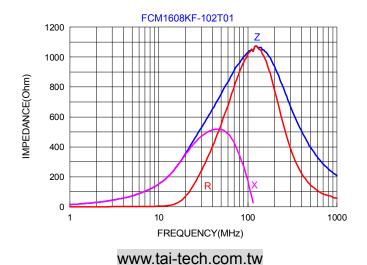


## 4.Specification

Tai-Tech Part Number	Impedance ( $\Omega$ )	Test Frequency (Hz)	DC Resistance $(\Omega)$ max.	Rated Current (mA) max.
FCM1608KF-102T01	1000±25%	60mV/100M	0.70	100

- Rated current: based on temperature rise test
- In compliance with EIA 595

### ■ Impedance-Frequency Characteristics



TAI-TECH KBM01-200600527 P3.

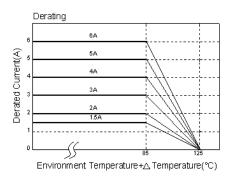
# 5. Reliability and Test Condition

Item				Performan	ice				Те	st Cond	dition	
Series No.	FCB	F	<mark>CM</mark>	НСВ		GHB	FCA					
Operating Temperature			(Includin	-55~+125°C ng self-tempe		e rise)						
Transportation Storage Temperature				-55~+125°( (on board)	-			For long			ons, please	see the
Impedance (Z)	Defer to a to	andord olo	strical abo	aracteristics lis	iat			Agilent4: Agilent4: Agilent4: Agilent11	E4991 287			
DC Resistance	Refer to sta	ndard elec	ctrical cha	iracteristics ii	IST			Agilent 4				
Rated Current								DC Pow Over Ra some ris	ted Curi		ements, the	ere will be
Temperature Rise Test		Rated Current < 1A						2. Tempe			current. by digital si	urface
Life test	Appearance	: within±15	%of initia					times.( II Reflow F Tempera Applied Duration Measure for 24±2	PC/JED Profiles) ature: 12 current: i: 1000± ed at ro hrs.	EC J-STD 25±2°C rated curr 12hrs. com tempe	erature afte	sification
Load Humidity		ot exceed t	the specif	fication value.		xceed the sp	ecification value	Preconditioning: Run through IR reflow times.(IPC/JEDEC J-STD-020D Classific Reflow Profiles) Humidity: 85±2%R.H. Temperature: 85±2°C. Duration: 1000hrs Min. with 100% ocurrent. Measured at room temperature after pla for 24±2 hrs.			ssification % rated	
Thermal shock		: within±15 : within±10 ot exceed t	%of initia %of initia the specif	l value. fication value.		xceed the sp	ecification value	times.( II Reflow F Conditio Step1: -{ Step2: 2 Step3: + Number	PC/JED Profiles) n for 1 c 55±2°C 5±2°C 125±2°C of cycle ed at ro	eycle 30±5 ≦ 0.5r 30±5n es: 500	nin	ssification
Vibration		: within±1 : within±1 ot exceed t	5% of init 0% of init the specif	ial value fication value.		xceed the sp	ecification value	times.( II Reflow F Oscillation for 20 m Equipment Total Am	PC/JED Profiles) on Fred inutes ent: Vi aplitude: Time: 1	EC J-STD quency: 10 bration ch 10g 2 hours(20	ough IR refl 0-020D Clas 0Hz ~ 2KHz ecker 0 minutes,	ssification $z \sim 10 Hz$
Bending	Appearance: No damage. Impedance: within±10% of initial value 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				following >=0805in <0805in Bending >=0805in <0805in	Shall be mounted on a FR4 substrate of the following dimensions: >=0805inch(2012mm):40x100x1.2mm <0805inch(2012mm):40x100x0.8mm Bending depth: >=0805inch(2012mm):1.2mm <0805inch(2012mm):0.8mm Duration of 10 sec for a min.						
	Appearance	e : No dan	nage.					Test co	ndition	Normal		Velocity
Shock	Impedance Inductance	: within±1 : within±1	0% of init 0% of init		<b>)</b> .			Type	Value (g's)	duration (D) (ms)	Wave form Half-sine	change (Vi)ft/sec
						xceed the sp	ecification value	Lead	50	11	Half-sine	11.3
Solderability	RDC: within ±15% of initial value and shall not exceed the specification value  More than 95% of the terminal electrode should be covered with solder.					Lead 50 11 Half-sine 11.3  Preheat: 150°C,60sec. Solder: Sn96.5%-Ag3%-Cu0.5% Solder temperature: 245±5°C Flux for lead free: Rosin. 9.5% Depth: completely cover the termination. Dip time: 4±1sec.						

Item	Performance	Test Condition
		Number of heat cycles: 1
Resistance to Soldering	Appearance : No damage. Impedance : within±15% of initial value	Temperature (°C) Time (s) Temperature ramp/immersion and emersion rate
Heat	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	260 ±5 (solder temp) 10 ±1 25mm/s ±6 mm/s
		Depth: completely cover the termination
Terminal strength	Appearance: No damage. Impedance: within±15% of initial value 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-020D Classification Reflow Profiles) Component mounted on a PCB apply a force >0805inch(2012mm):1kg <=0805inch(2012mm):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 shock the component being tested.

### \*\*Derating Curve

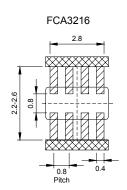
For the ferrite chip bead which withstanding current over 1.5A, as the operating temperature over  $85^{\circ}\mathbb{C}$ , the derating current information is necessary to consider with. For the detail derating of current, please refer to the Derated Current vs. Operating Temperature curve.



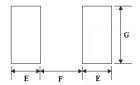
## 6. Soldering and Mounting

### 6-1. Recommended PC Board Pattern

		Land Patterns For Reflow Soldering						
Series	Туре	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
	0603	0.6±0.03	0.30±0.03	0.30±0.03	0.15±0.05	0.35	0.30	0.40
FCB	1005	1.0±0.10	0.50±0.10	0.50±0.10	0.25±0.10	0.50	0.40	0.60
FCM	<mark>1608</mark>	1.6±0.15	0.80±0.15	0.80±0.15	0.30±0.20	<mark>0.80</mark>	<mark>0.85</mark>	<mark>0.95</mark>
нсв	0040	2.0±0.20	1.25±0.20	0.85±0.20	0.50±0.30	4.05	1.00	1.45
GHB	2012	2.0±0.20	1.25±0.20	1.25±0.20	0.50±0.30	1.05	1.00	1.45
FCI	3216	3.2±0.20	1.60±0.20	1.10±0.20	0.50±0.30	1.05	2.20	1.80
FHI	3225	3.2±0.20	2.50±0.20	1.30±0.20	0.50±0.30	1.05	2.20	2.70
FCH	4516	4.5±0.20	1.60±0.20	1.60±0.20	0.50±0.30	1.05	3.30	1.80
HCI	4532	4.5±0.20	3.20±0.20	1.50±0.20	0.50±0.30	1.05	3.30	3.40



∠∠∠ Land ⊗ Solder Resist



PC board should be designed so that products can prevent damage from mechanical stress when warping the board.

### 6-2. Soldering

Mildly activated rosin fluxes are preferred. The terminations are suitable for re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

Note.

If wave soldering is used ,there will be some risk.

Re-flow soldering temperatures below 240 degrees, there will be non-wetting risk

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### 6-2.1 Lead Free Solder re-flow:

Recommended temperature profiles for lead free re-flow soldering in Figure 1. (Refered to J-STD-020C)

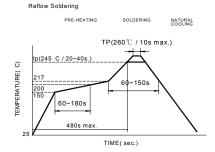
#### 6-2.2 Soldering Iron:

Products attachment with a soldering iron is discouraged due to the inherent process control limitations. If a soldering iron must be employed the following precautions are recommended. for Iron Soldering in Figure 2.

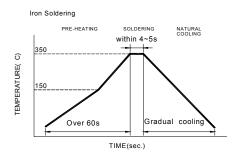
• Preheat circuit and products to 150℃

• 350 $^{\circ}$ C tip temperature (max)

- Never contact the ceramic with the iron tip1.0mm tip diameter (max)
- Use a 20 watt soldering iron with tip diameter of 1.0mm
- Limit soldering time to 4~5sec.



Reflow times: 3 times max Fig.1



Iron Soldering times: 1 times max

#### 6-2.3 Solder Volume:

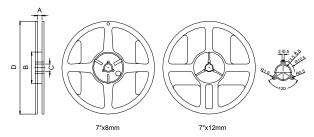
Accordingly increasing the solder volume, the mechanical stress to product is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance. Solder shall be used not to be exceed as shown in right side:

Minimum fillet height = soldering thickness + 25% product height



## 7. Packaging Information

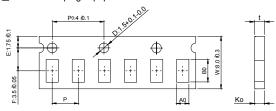
### 7-1. Reel Dimension



Туре	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.0±0.5	<mark>60±2</mark>	<mark>13.5±0.5</mark>	<mark>178±2</mark>
7"x12mm	13.5±0.5	60±2	13.5±0.5	178±2

#### 7-2.1 Tape Dimension / 8mm

### ■Material of taping is paper



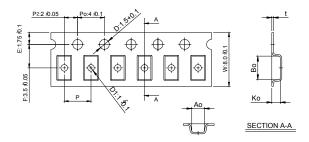
	P22 0.1 P0.4 0.1 P1.50 C.1.0 C.	<u>t</u> .
E:3.5.00.1	9	
띮	_ P	Ko

Size	Size         Bo(mm)         Ao(mm)         Ko(mm)           060303         0.70±0.06         0.40±0.06         0.45max		P(mm)	t(mm)	
060303			0.45max	2.0±0.05	0.45max
100505	1.12±0.03	0.62±0.03	0.60±0.03	2.0±0.05	0.60±0.03

Size Bo(mm)		Bo(mm) Ao(mm) I		P(mm)	t(mm)	
<mark>160808</mark>	160808 1.80±0.05		<mark>0.95±0.05</mark>	<mark>4.0±0.10</mark>	<mark>0.95±0.05</mark>	
201209	2.10±0.05	1.30±0.05	0.95±0.05	4.0±0.10	0.95±0.05	

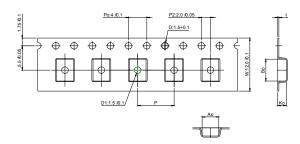
**TAI-TECH KBM01-200600527** P6.

#### ■Material of taping is plastic



Size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)	D1(mm)
201212	2.10±0.10	1.28±0.10	1.28±0.10	4.0±0.10	0.22±0.05	1.0±0.10
321611	3.35±0.10	1.75±0.10	1.25±0.10	4.0±0.10	0.23±0.05	1.0±0.10
322513	3.42±0.10	2.77±0.10	1.55±0.10	4.0±0.10	0.22±0.05	1.0±0.10
321609	3.40±0.10	1.77±0.10	1.04±0.10	4.0±0.10	0.22±0.05	1.0±0.10

#### 7-2.2 Tape Dimension / 12mm

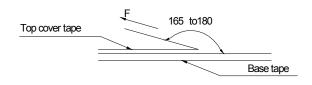


Size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)	D1(mm)
451616	4.70±0.10	1.75±0.10	1.75±0.10	4.0±0.10	0.24±0.05	1.5±0.10
453215	4.70±0.10	3.45±0.10	1.60±0.10	8.0±0.10	0.24±0.05	1.5±0.10

#### 7-3. Packaging Quantity

Chip Size	453215	451616	322513	321611	321609	201212	201209	<mark>160808</mark>	100505	060303
Chip / Reel	1000	2000	2500	3000	3000	2000	4000	<mark>4000</mark>	10000	15000
Inner box	4000	8000	12500	15000	15000	10000	20000	<mark>20000</mark>	50000	75000
Middle box	20000	40000	62500	75000	75000	50000	100000	100000	250000	375000
Carton	40000	80000	125000	150000	150000	100000	200000	200000	500000	750000

### 7-4. Tearing Off Force



The force for tearing off cover tape is 15 to 60 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(component level)
- To maintain the solder ability 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  $^{\circ}$ C and 60% RH.
- 3. Recommended products should be used within 12 months from 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.



# **Test Report**

號碼(No.): CE/2019/C0498 日期(Date): 2019/12/10 頁數(Page): 1 of 14

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) (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)

FERRITE CHIP BEAD · FERRITE CHIP INDUCTOR · ARRAY · MCF · MCM · YMV · APM SERIES

樣品型號(Style/Item No.)

FERRITE CHIP BEAD · FERRITE CHIP INDUCTOR · ARRAY · MCF · MCM · YMV · APM SERIES

收件日期(Sample Receiving Date)

2019/12/04

測試期間(Testing Period)

2019/12/04 to 2019/12/10

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

Troy Chang / Manager - Vec Signed for and behalf of SĞS TAIWAN LTD.

Chemical Laboratory - Taipei

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**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)	測試方法 (Method)	MDL	結果 (Result) No.1
鐍 / Cadmium (Cd)	mg/kg	參考IEC 62321-5 (2013),以感應耦合電 漿發射光譜儀檢測. / With reference	2	n. d.
鉛 / Lead (Pb)	mg/kg	to IEC 62321-5 (2013) and performed by ICP-0ES.	2	n. d.
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4:2013+ AMD1:2017,以 感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321-4:2013+ AMD1:2017 and performed by ICP-OES.	2	n. d.
六價鉻 / Hexavalent Chromium Cr(VI) mg		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.
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.
一溴聯苯 / Monobromobiphenyl	mg/kg	参考IEC 62321-6 (2015),以氣相層析/ 質譜儀檢測. / With reference to IEC -62321-6 (2015) and performed by -GC/MS.	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.
t溴聯苯 / Heptabromobiphenyl mg/kg へ溴聯苯 / Octabromobiphenyl mg/kg		UC/ NO.	5	n. d.
			5	n. d.
九溴聯苯 / Nonabromobiphenyl	mg/kg	]	5	n. d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.

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測試項目 (Test Items)	單位 (Unit)	测試方法 (Method)	MDL	結果 (Result) No.1
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	参考IEC 62321-6 (2015), 以氣相層析/	5	n. d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	質譜儀檢測./ With reference to IEC 62321-6 (2015) and performed by	5	n. d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	GC/MS.	5	n, d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg	OO MO.	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
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),以氣相層析/質譜儀檢測. / With reference to IEC 62321 (2008). 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 (C1) mg/kg (CAS No.: 22537-15-1) 鹵素 (溴) / Halogen-Bromine (Br) mg/kg (CAS No.: 10097-32-2)		参考BS EN 14582 (2016),以離子層析儀 分析. / With reference to BS EN	50	n. d.
		14582 (2016). Analysis was performed by IC.	50	n. d.
鹵素 (碘) / Halogen-Iodine (I) (CAS mg No.: 14362-44-8)			50	n. d.

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測試項目 (Test Items)	單位 (Unit)	测試方法 (Method)	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 (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n. d.
鄭苯二甲酸二 (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		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	参考IEC 62321-8 (2017),以氣相層析/   質譜儀檢測. / With reference to IEC   62321-8 (2017). Analysis was   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	performed by GC/MG.	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.
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/ 質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was	10	n. d.
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	performed by LC/MS.	10	n. d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) No.1
銻 / Antimony (Sb)	mg/kg	参考US EPA 3052 (1996),以感應耦合電	2	n, d,
鈹 / Beryllium (Be)	mg/kg	漿發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was	2	n. d.
砷 / Arsenic (As)	mg/kg	performed by ICP-OES.	2	n, d,
聚氯乙烯 / Polyvinyl chloride (PVC)	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	<del>-</del>	Negative

#### 備註(Note):

- 1. mg/kg = ppm : 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出)
- 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) 2019/1021

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<sup>2</sup>.)

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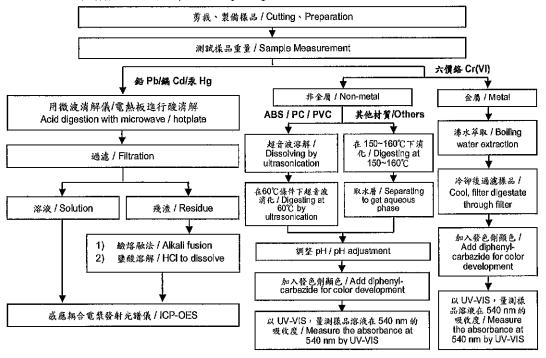
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### 重金屬流程圖 / Analytical flow chart of Heavy Metal

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. (Cr8+ test method excluded)

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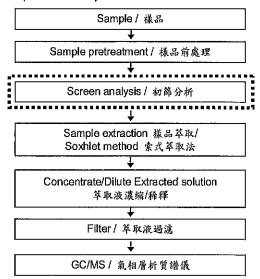
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#### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

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

初次測試程序 / First testing process -確認程序 / Confirmation process - - - →



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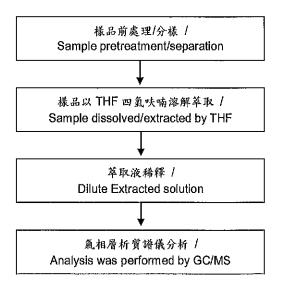
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### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

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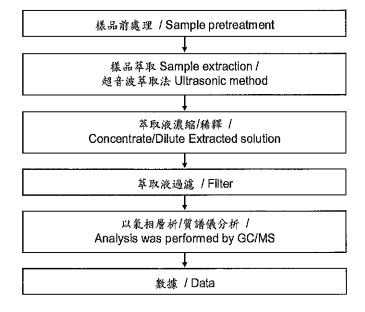
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### 六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

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



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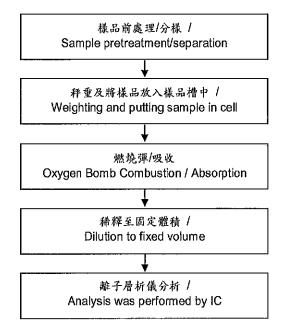
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### 鹵素分析流程圖 / Analytical flow chart - Halogen

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



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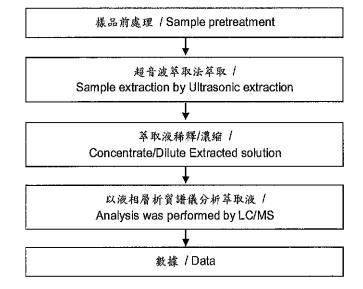
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### 全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 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**

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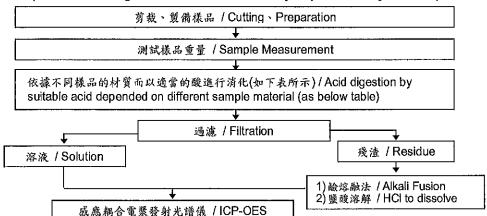
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> 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

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

## 元素以 ICP-OES 分析的消化流程圖 (Flow Chart of digestion for the elements analysis performed by ICP-OES)



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氯酸,雙氧水 / Aqua regia, HNO <sub>3</sub> , HCI, HF, H <sub>2</sub> O <sub>2</sub>
玻璃 / Glass	硝酸,氫氟酸 / HNO3/HF
金,鉑,鈀,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 / 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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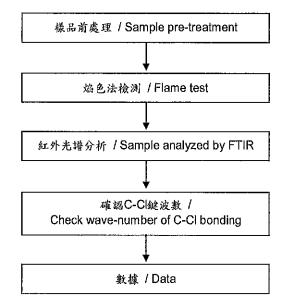
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#### 聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC

- 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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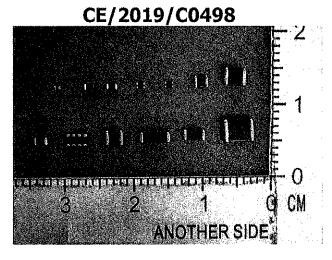
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## \* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. \*

(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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