

Specification for Approval

Date: 2021/08/16

Customer :	天诚科技
TAI-TECH P/N:	HCB3216KF-600T30
CUSTOMER P/N:	
DESCRIPTION:	
QUANTITY:	

Customer Approval Feedback
Customer Approval Feedback

西北臺慶科技股份有限公司 TAI-TECH Advanced Electronics Co.. Ltd

代理商.

深圳市天**诚**科技有限公司 Shenzhen TsaSun Technology Co., Ltd. Room 209, 2/F, Block A, Tengfei Industrial Building, No.6, Taohua Road, Futian District, Shenzhen TEL: 0755-8335 8885 / 0755-8335 9885 E-mail: sales@tsasun.com www.tsacoil.com

□西北臺慶科技股份有限公司

TAI-TECH Advanced Electronics Co., Ltd <u>Headquarter:</u>
NO.1 YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN HSIEN, TAIWAN, R.O.C.
TEL: +886-3-4641148 FAX: +886-3-4643565

http://www.tai-tech.com.tw E-mail: sales@tai-tech.com.tw

□ 臺慶精密電子(昆山)有限公司

TAI-TECH ADVANCED ELECTRONICS(KUNSHAN) CO., LTD SHINWHA ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA

TEL: +86-512-57619396 FAX: +86-512-57619688

E-mail: hui@tai-tech.com.tw

Sales Dep.

APPROVED	CHECKED
夏暁曼	夏暁曼

R&D Center

APPROVED	CHECKED	DRAWN
羅宜春	梁周虎	卜文娟

TAI-TECH KBM01-170900466 P2.

High Current Ferrite Chip Bead(Lead Free)

HCB3216KF-600T30

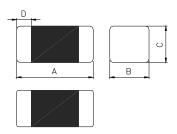
Certificate

Green Partner

1.Features

- 1. Monolithic inorganic material construction.
- 2. Closed magnetic circuit avoids crosstalk.
- 3. Suitable for reflow soldering.
- 4. Shapes and dimensions follow E.I.A. spec.
- 5. Available in various sizes.
- 6. Excellent solder ability and heat resistance.
- 7. High reliability.
- 8.100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 9. Low DC resistance structure of electrode to prevent wasteful electric power consumption.

2.Dimensions



Chip Size						
A 3.20±0.20						
В	1.60±0.20					
С	1.10±0.20					
D	0.50±0.30					

Units: mm

3.Part Numbering



F: Rated Current 30=3000m

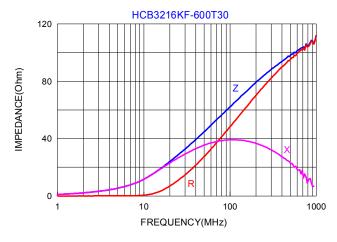
Ag(100%) Ag(100%) Ni(100%)-1.5um (min.) Sn(100%)-3.5um (min.)

4.Specification

Tai-Tech Part Number	Impedance (Ω)	Test Frequency (Hz)	DC Resistance (Ω) max.	Rated Current (mA) max.
HCB3216KF-600T30	60±25%	60mV/100M	0.04	3000

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

■ Impedance-Frequency Characteristics



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TAI-TECH KBM01-170900466 P3.

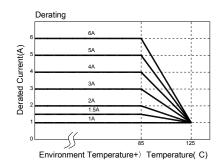
5. Reliability and Test Condition

Item			Performance			Test Condition				
Series No.	FCB	FCM	HCB	GHB	FCA					
Operating Temperature		(Includir	-40~+125℃ ng self-temperat	ure rise)						
Transportation Storage Temperature			-40~+125℃ (on board)			For long			ons, please	see the
Impedance (Z)	Refer to standard	alastrical abo	pro eteriotico liet			Agilent42 Agilent E Agilent42 Agilent16	287			
DC Resistance	_ Refer to standard	receive standard electrical enabled states list.					338			
Rated Current						DC Powe Over Rat some ris	ted Curr		ements, the	re will be
Temperature Rise Test	Rated Current < 1A Rated Current ≥ 1A					2. Tempe		owed DC neasured	current. by digital su	urface
Life test	Appearance: no d Impedance: withir	n±15%of initia				times.(If Reflow F Tempera Applied of Duration Measure for 24±2	PC/JED Profiles) ture: 12 current: : 1000± id at ro hrs.	EC J-STD 5±2°C rated curn 12hrs. om tempe	ugh IR refl -020D Clas ent. erature afte	sification
Load Humidity	Q : Shall not exceed the specification value. RDC : within ±15% of initial value and shall not exceed the specification value				times.(IPC/JEDEC J-STD-020D Classification Reflow Profiles) Humidity: 85±2%R.H. Temperature: 85±2°C. Duration: 1000hrs Min. with 100% rated current. Measured at room temperature after placing for 24±2 hrs.					
Thermal shock	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				cification value	Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020D Classification Reflow Profiles) Condition for 1 cycle Step1: 40±2°C 30±5 min. 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 Impedance : with Inductance : with Q : Shall not exce	in±15% of init in±10% of init eed the specif	ial value fication value.	t exceed the spe	cification value	times.(If Reflow F Oscillation minutes Equipme Total Am	PC/JED Profiles) on Freq ent : Vi plitude:	EC J-STD uency: 10 bration che 1.52mm±1 2 hours(20		sification
Bending	Appearance : No Impedance : with Inductance : with Q : Shall not exce RDC : within ±15	in±10% of init in±10% of init eed the specif	ial value fication value.	t exceed the spe	ecification value	following >=0805in <0805in Bending >=0805in <0805in	dimens nch(201 ch(2012 depth: nch(201 ch(2012	ions: 2mm):40x	m	
						Test co	ndition			
Shock	Appearance : No Impedance : with Inductance : with	in±10% of init in±10% of init	ial value			Туре	Peak Value (g's)	Normal duration (D) (ms)	Wave form	Velocity change (Vi)ft/sec
	Q : Shall not exce RDC : within ±15			t exceed the spe	cification value	SMD	50	11	Half-sine	11.3
						Lead	50	11	Half-sine	11.3
Solderability	More than 95% of	the terminal e	electrode should	l be covered with	n solder.	Solder to Flux for I	Sn96.5% emperati ead free omplete	5-Ag3%-C ure: 245±5 e: Rosin. 9 ly cover th	5℃	on.

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 s	pecification value	260 ±5 (solder temp)	10 ±1	25mm/s ±6 mm/s
			Depth: complete	ely cover t	he 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	shearforce	Preconditioning: Run through IR reflow for times.(IPC/JEDEC J-STD-020D Classificatio Reflow Profiles) Component mounted on a PCB apply a forc >0805inch(2012mm):1kg <=0805inch(2012mm):0.5kg to the side of a device being tested. This forc shall be applied for 60 +1 seconds. Also the force shall be applied gradually as not to shoot the component being tested.		

**Derating Curve

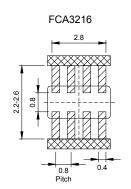
For the ferrite chip bead which withstanding current over 1.5A, as the operating temperature over $85^{\circ}\mathrm{C}$, the derating current information is necessary to consider with. For the detail derating of current, please refer to the Derated Current vs. Operating Temperature curve.



6. Soldering and Mounting

6-1. Recommended PC Board Pattern

			Pattern ow Sold	• • • •				
Series	Type	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	1608	1.6±0.15	0.80±0.15	0.80±0.15	0.30±0.20	0.80	0.85	0.95
HCB	2012	2.0±0.20	1.25±0.20	0.85±0.20	0.50±0.30	1.05	1.00	1.45
GHB	2012	2.0±0.20	1.25±0.20	1.25±0.20	0.50±0.30	1.05		
FCI	<mark>3216</mark>	3.2±0.20	1.60±0.20	1.10±0.20	0.50±0.30	<mark>1.05</mark>	<mark>2.20</mark>	1.80
FHI FCH	3225	3.2±0.20	2.50±0.20	1.30±0.20	0.50±0.30	1.05	2.20	2.70
HCI	4516	4.5±0.20	1.60±0.20	1.60±0.20	0.50±0.30	1.05	3.30	1.80
нсі	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

TAI-TECH KBM01-170900466 P5.

6-2.1 Lead Free Solder re-flow:

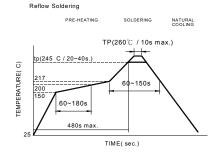
Recommended temperature profiles for lead free re-flow soldering in Figure 1. (Refered to J-STD-020C)

6-2.2 Soldering Iron:

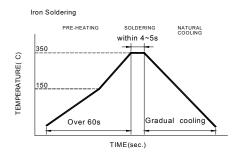
Products attachment with a soldering iron is discouraged due to the inherent process control limitations. If a soldering iron must be employed the following precautions are recommended. for Iron Soldering in Figure 2.

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

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



Reflow times: 3 times max Fig.1



Iron Soldering times: 1 times max

6-2.3 Solder Volume:

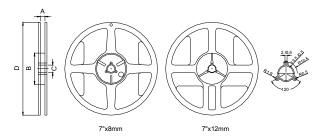
Accordingly increasing the solder volume, the mechanical stress to product is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance. Solder shall be used not to be exceed as shown in right side:

Minimum fillet height = soldering thickness + 25% product height



7. Packaging Information

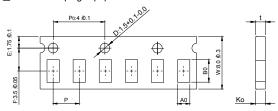
7-1. Reel Dimension



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



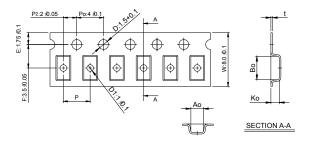
E:1.75 ;0.1	P22.0.1 P04.0.1 S.18601.05	· A / 1	- t
F:3.5 Ø.1	P	40 B0 WW	Ко

Size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)
060303	0.70±0.06	0.40±0.06	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)	Ao(mm)	Ko(mm)	P(mm)	t(mm)
160808	1.80±0.05	0.96+0.05/-0.03	0.95±0.05	4.0±0.10	0.95±0.05
201209	2.10±0.05	1.30±0.05	0.95±0.05	4.0±0.10	0.95±0.05

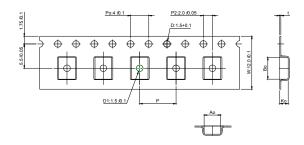
TAI-TECH KBM01-170900466 P6.

■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
<mark>321611</mark>	3.35±0.10	1.75±0.10	1.25±0.10	4.0±0.10	0.23±0.05	<mark>1.0±0.10</mark>
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

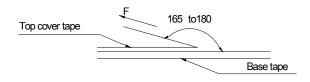


Size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)	D1(mm)
451616	4.70±0.10	1.75±0.10	1.75±0.10	4.0±0.10	0.24±0.05	1.5±0.10
453215	4.70±0.10	3.45±0.10	1.60±0.10	8.0±0.10	0.24±0.05	1.5±0.10

7-3. Packaging Quantity

Chip Size	453215	451616	322513	<mark>321611</mark>	321609	201212	201209	160808	100505	060303
Chip / Reel	1000	2000	2500	<mark>3000</mark>	3000	2000	4000	4000	10000	15000
Inner box	4000	8000	12500	<mark>15000</mark>	15000	10000	20000	20000	50000	75000
Middle box	20000	40000	62500	<mark>75000</mark>	75000	50000	100000	100000	250000	375000
Carton	40000	80000	125000	<mark>150000</mark>	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°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/2016/C0807

日期(Date); 2016/12/12

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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.)

(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 INDUCTOR ARRAY MCF MCM YMV SERIES

樣品型號(Style/Item No.)

FERRITE CHIP BEAD INDUCTOR ARRAY MCF MCM YMV SERIES

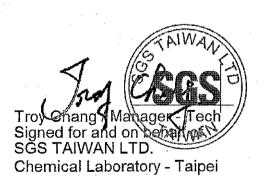
收件日期(Sample Receiving Date)

2016/12/06

測試期間(Testing Period)

2016/12/06 TO 2016/12/12

测試結果(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
鎬 / Cadmium (Cd)	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	2	n. d.
鉛 / Lead (Pb)	mg/kg	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),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.
六價絡 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321 (2008),以UV-VIS檢 測. / With reference to IEC 62321 (2008) and performed by UV-VIS.	2	n. d.
绨 / Antimony (Sb)	mg/kg	參考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.
砷 / Arsenic (As)	mg/kg	參考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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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法侦测 極限值 (MDL)	結果 (Result) 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.
八溴聯苯 / Octabromobiphenyl	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	/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		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.
鄰苯二甲酸丁苯甲酯 / BBP (Butyl	mg/kg	4 4 IDC 60001 0/CD /0010\ w/E to	50	n. d.
Benzyl phthalate) (CAS No.: 85-68-7)		参考IEC 62321-8/CD (2013),以氣相 層析儀/質譜儀檢測. / With reference to IEC 62321-8/CD		
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	(2013). Analysis was performed by GC/MS.	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 極限値 (MDL)	結果 (Result) No.1
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.
鄉苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	mg/kg	参考IEC 62321-8/CD (2013),以氣相 層析儀/質譜儀檢測. / With	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	reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	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.
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),以氣相層析/ 實譜儀檢測. / With reference to IEC 62321 (2008). 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 (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.
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 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/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	10	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

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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 $1\mu g/m^2$.)

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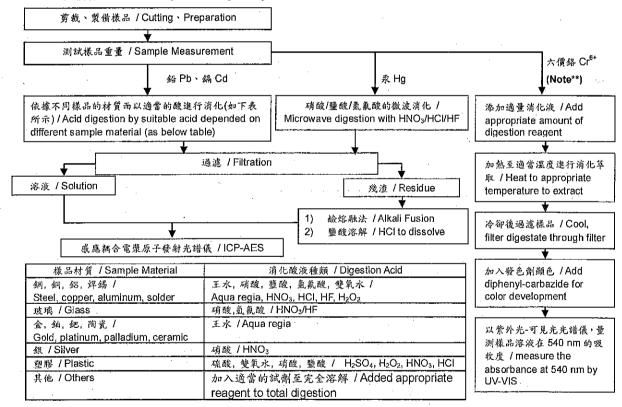
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<u> 重金屬流程圖 / Analytical flow chart of Heavy Metal (IEC 62321)</u>

根據以下的流程圖之條件,樣品已完全溶解。(六價絡測試方法除外) /

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)

- 測試人員:王志瑋 / Technician: JR Wang
- 測試負責人:張啟興 / Supervisor: Troy Chang



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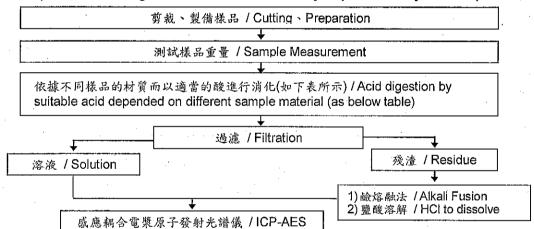
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> 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

- 測試人員:王志瑋 / Technician: JR Wang
- 測試負責人:張啟興 / Supervisor: 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,氫氟酸,雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸,氫氟酸 / HNO ₃ /HF
金,鉑,鲍,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 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
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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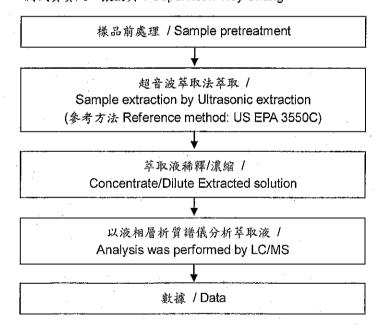
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

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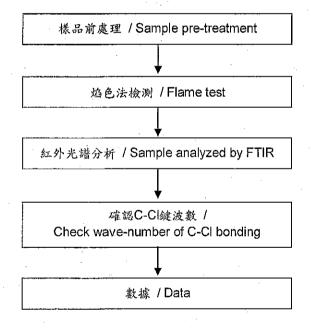
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聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC

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



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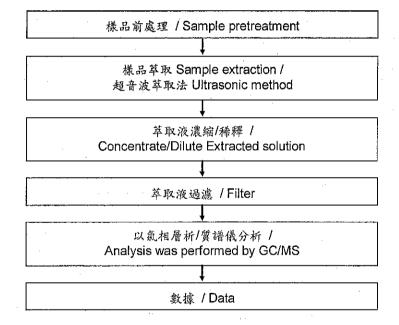
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

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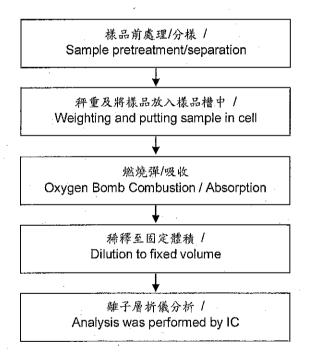
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鹵素分析流程圖 / Analytical flow chart - Halogen

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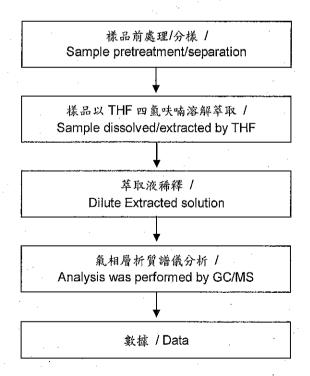
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

測試人員:徐毓明 / Technician: Andy Shu

測試負責人:張啟興 / Supervisor: Troy Chang

【测試方法/Test method: IEC 62321-8】



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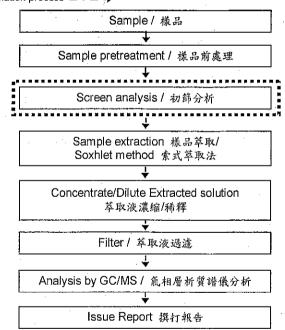
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

測試人員:涂雅苓 / Technician: Yaling Tu

測試負責人:張啟興 / 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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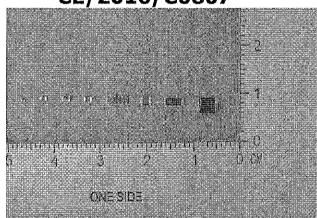
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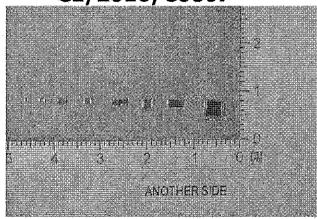
* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. *

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

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