



Specification for Approval

Date: 2016/11/1





Customer: 深圳臺慶

	TAI-TECH P/N:	HCB2012KF-500T3	30						
	CUSTOMER P/N:								
	DESCRIPTION:								
	QUANTITY:	pcs	5 						
REN	MARK:								
	Cu	stomer Approval Feedba	ack						
I									

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

■ 西北臺慶科技股份有限公司

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Mike Yang	Jack Chan	Alin Chang

High Current Ferrite Chip Bead(Lead Free)

HCB2012KF-500T30

		ECN HISTO	DRY 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	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
備					
註					

TAI-TECH TBM01-161000650

High Current Ferrite Chip Bead(Lead Free)

HCB2012KF-500T30

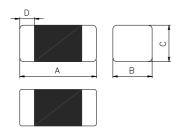
Certificate

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					
Α	2.00±0.20				
В	1.25±0.20				
С	0.85±0.20				
D	0.50±0.30				

Units: mm

3.Part Numbering



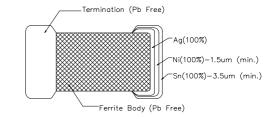
B: Dimension

C: Material Lead Free Material

500=50 Ω D: Impedance

E: Packaging T=Taping and Reel, B=Bulk(Bags)

F: Rated Current

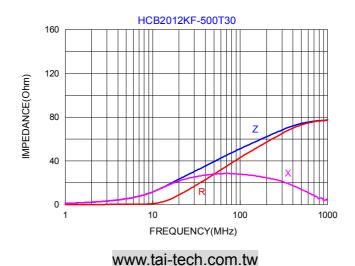


4. Specification

Tai-Tech Part Number	Impedance (Ω)	Test Frequency (Hz)	DC Resistance (Ω) max.	Rated Current (mA) max.	
HCB2012KF-500T30	50±25%	60mV/100M	0.04	3000	

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

Impedance-Frequency Characteristics



TAI-TECH TBM01-161000650 P3.

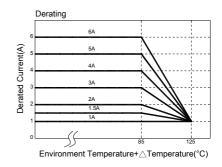
5. Reliability and Test Condition

Item	Performance						Test Condition							
Series No.	FCB	FCM	нсв	GHB	FCA	FCI	FHI	FCH	HCI					
Operating Temperature	(Ir		-40~+125 self-temp		rise)	(Inc	-40~ luding self-	+105°C temperatu	re rise)					
Transportation Storage Temperature			-40~+125 (on boar	-				+105℃ board)		For long			ons, please	see the
Impedance (Z)										Agilent4	291			
Inductance (Ls)										Agilent E	E4991			
Q Factor	Б.									Agilent4				
DC Resistance	Refe	r to stan	dard elec	trical ch	aracteris	stics list				Agilent 4				
Rated Current										DC Pow	er Supp ted Curr		ements, the	ere will be
Temperature Rise Test		Rated Current < 1A ΔT 20℃ Max Rated Current ≧ 1A ΔT 40℃ Max							2. Temp			current. by digital s	urface	
										Number	of heat	cycles: 1		
Resistance to Soldering			: No dam		itial valu	e				Temper		Time (s)	Temperati ramp/imm and emers	ersion
Heat	Q:5	Shall not	within±10 exceed t ±15% of	he spec	ification	value.	exceed the	specificat	ion value	260 ±5 (solder t	emp)	10 ±1	25mm/s	±6 mm/s
										Depth: completely cover the termination				
Solderability	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 termin Dip time: 4±1sec.					5℃ 9.5%	ion.							
Terminal strength	Appearance : No damage. Impedance : within±15% of initial value Inductance : within±10% of initial value Q : Shall not exceed the specification value.						times.(I Reflow F Compon (>0805: device b for 60 - applied	PC/JED Profiles) nent mou 1kg <=(eing tes +1 seco gradua	unted on a D805:0.5kg ted. This fonds. Also	ough IR ref 0-020D Class a PCB appighto the solution of the so	ssification ly a force ide of a be applied shall be			
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					ion value	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 for a min.							
Vibration Test	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 RDC: within±10% of initial value and shall not exceed the specification value RDC: within±15% of initial value and shall not exceed the specification value Appearance: No damage. Reflow Profiles) Oscillation Frequency: 10~2K~ minutes Equipment: Vibration checker Total Amplitude:1.52mm±10% Testing Time: 12 hours(20 minute) each of 3 orientations) ∘						0-020D Clas 0~2K~10h lecker 10%	ssification						
										Test co	ndition	:		
	Impe	edance :	: No dam	0% of in						Туре	Peak Value (g's)	Normal duration (D) (ms)	Wave form	Velocity change (Vi)ft/sec
Shock	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													

Item	Performance	Test Condition		
Life test Load Humidity	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) Temperature: 125½°C (Bead), 105½°C (Inductor) 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-020D Classification Reflow Profiles) Humidity: 85½°K.H. Temperature: 85½°C. Duration: 1000hrs Min. with 100% rated current.		
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	Measured at room temperature after placing for 24±2 hrs. Preconditioning: Run through IR reflow for 2 times. (IPC/JEDEC J-STD-020D Classification Reflow Profiles) Condition for 1 cycle Step1: $-40\pm2^{\circ}$ 30 ±5 min. Step2: $25\pm2^{\circ}$ ≤ 0.5 min Step3: $+125\pm2^{\circ}$ 30 ±5 min. (Inductor) Number of cycles: 500 Measured at room temperature after placing for 24 ±2 hrs.		
Insulation Resistance	IR>1GΩ	Chip Inductor Only Test Voltage:100±10%V for 30Sec.		

**Derating Curve

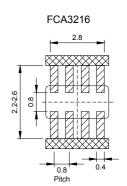
For the ferrite chip bead which withstanding current over 1.5A, as the operating temperature over $85^{\circ}\mathbb{C}$, the derating current information is necessary to consider with. For the detail derating of current, please refer to the Derated Current vs. Operating Temperature curve.



6. Soldering and Mounting

6-1. Recommended PC Board Pattern

			Pattern ow Sold	• • • •				
Series	Туре	A(mm)	B(mm)	C(mm)	D(mm)	L(mm)	G(mm)	H(mm)
	0603	0.6±0.03	0.30±0.03	0.30±0.03	0.15±0.05	0.80	0.30	0.30
FCB	1005	1.0±0.10	0.50±0.10	0.50±0.10	0.25±0.10	1.50	0.40	0.55
FCM	1608	1.6±0.15	0.80±0.15	0.80±0.15	0.30±0.20	2.60	0.60	0.80
HCB	2012	2.0±0.20	1.25±0.20	0.85±0.20	0.50±0.30	3.00	1.00	1.00
GHB	2012	2.0±0.20	1.25±0.20	1.25±0.20	0.50±0.30	3.00		
FCI	3216	3.2±0.20	1.60±0.20	1.10±0.20	0.50±0.30	4.40	2.20	1.40
FHI FCH	3225	3.2±0.20	2.50±0.20	1.30±0.20	0.50±0.30	4.40	2.20	3.40
HCI	4516	4.5±0.20	1.60±0.20	1.60±0.20	0.50±0.30	5.70	2.70	1.40
пСІ	4532	4.5±0.20	3.20±0.20	1.50±0.20	0.50±0.30	5.90	2.57	4.22



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

6-2.1 Lead Free Solder re-flow:

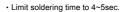
Recommended temperature profiles for lead free re-flow soldering in Figure 1. (Refered to J-STD-020C)

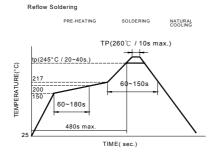
6-2.2 Soldering Iron:

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.

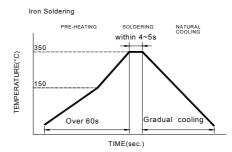
- Preheat circuit and products to 150°C
- · Never contact the ceramic with the iron tip
- Use a 20 watt soldering iron with tip diameter of 1.0mm

- 350°C tip temperature (max)
- 1.0mm tip diameter (max)





Reflow times: 3 times max Fig.1



Iron Soldering times: 1 times max Fig.2

6-2.3 Solder Volume:

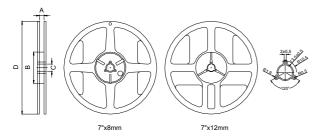
Accordingly increasing the solder volume, the mechanical stress to product is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance. Solder shall be used not to be exceed as shown in right side:

Minimum fillet height = soldering thickness + 25% product height



7. Packaging Information

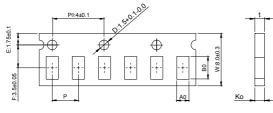
7-1. Reel Dimension



Туре	Type A(mm)		C(mm)	D(mm)	
7"x8mm	9.0±0.5	60±2	13.5±0.5	178±2	
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



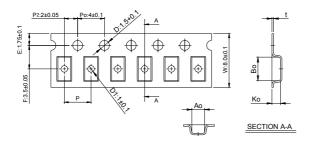
	.0%	
-	P2:240.1 P0:440.1 D.166.03.1.01.05	- t -
E:1.75±0.1		П
Ü [Н
F:3.5±0.1		Н
F:3.5	P	Ko _

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

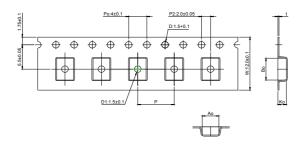
TAI-TECH TBM01-161000650 P6.

■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

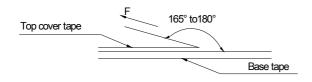


Size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)	D1(mm)
451616	4.70±0.10	1.75±0.10	1.75±0.10	4.0±0.10	0.24±0.05	1.5±0.10
453215	4.70±0.10	3.45±0.10	1.60±0.10	8.0±0.10	0.24±0.05	1.5±0.10

7-3. Packaging Quantity

Chip Size	453215	451616	322513	321611	321609	201212	201209	160808	100505	060303
Chip / Reel	1000	2000	2500	3000	3000	2000	4000	4000	10000	15000
Inner box	4000	8000	12500	15000	15000	10000	20000	20000	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° 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.



with SGS www.tw.sgscom

測試報告

Test Report

號碼(No.): CE/2015/C2559

日期(Date): 2015/12/21

頁數(Page): 1 of 16

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.)

(耀鑚科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

(廣邦電子元器件 (泗洪) 有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

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

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)

2015/12/14

測試期間(Testing Period)

2015/12/14 TO 2015/12/21

測試結果(Test Results)

請見下一頁 (Please refer to next pages).



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Test Report

號碼(No.): CE/2015/C2559

日期(Date): 2015/12/21

頁數(Page): 2 of 16

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.)

(耀鑚科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

(慶邦電子元器件 (泗洪) 有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

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,

(江蘇省昆山市蓬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)

(桃園市中壢區中壢工業區長春六路15號 / NO. 15, CHANGCIIUN 6TH RD., JHONGLI DISTRICT, TAOYUAN CITY 320, TAIWAN)

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

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)	単位(Ibit)	測試方法 (Method)	方法侦测 極限值	結果 (Result)
(Test Items)	(Unit)	(Method)	(MDL)	No. 1
鐍 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n, d.
鉛 / Lead (Pb)	mg/kg	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	25. 7
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.
绨 / Antimony (Sb)	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.
鈹 / 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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西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

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

(耀鑚科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

(磨邦電子元器件 (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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测試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考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	No. 1 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,
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
鄭某二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg	參考IEC 62321-8 (111/321/CD),以氣相層析儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	參考IEC 62321-8 (111/321/CD),以氣相層析儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.

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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)
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	No. 1 n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	李考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.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	mg/kg	參考IEC 62321-8 (111/321/CD),以氣相層析儀/質譜儀檢測之,/ With reference to IEC 62321-8 (111/321/CD), Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	mg/kg	參考IEC 62321-8 (111/321/CD),以氣相層析儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg	參考IEC 62321-8 (111/321/CD),以氣相層析儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.

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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)
(165t Items)	(UIII U)	(inc anda)	(MDL)	No. 1
鄰苯二甲酸二正己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	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.
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	参考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. đ.
鹵素(氣)/ Halogen-Chlorine (C1) (CAS No.: 22537-15-1)	mg/kg	多考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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測試項目 (Tast Items)	測試項目 單位 測試方法 (Test Items) Unit) (Method)		方法偵測 極限值	結果(Result)
	(ULL L)	(me thou)	(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	1	5	n. d.
七溴聯苯 / Heptabromobiphenyl	mg/kg]	5	n. d.
八溴聯苯 / Octabromobiphenyl	mg/kg	1	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	5	n. d.
多溴聯苯醚總和 / Sum of PBDEs	ng/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	1 · [5	n. d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	1	5	n. d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/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	1	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	1	5	n. d.



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備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)
- 5. **= 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參考資訊(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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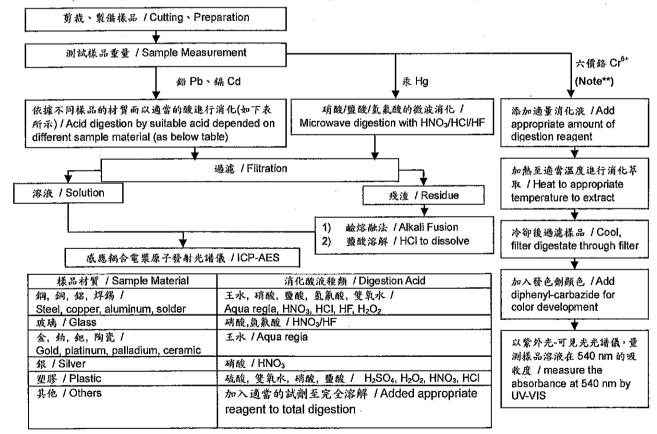
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重金屬流程圖 / Analytical flow chart of Heavy Metal (IEC 62321)

- 1) 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: 張啟與 / Name of the person in charge of measurement: 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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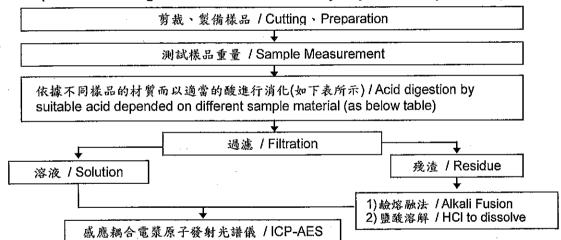
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- 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人:張啟興 / Name of the person in charge of measurement: 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,氫氟酸,雙氧水 / Aqua regia, HNO ₃ , HCI, HF, H ₂ O ₂
玻璃 / Glass	硝酸,氫氟酸 / HNO ₃ /HF
金,鉑,鈀,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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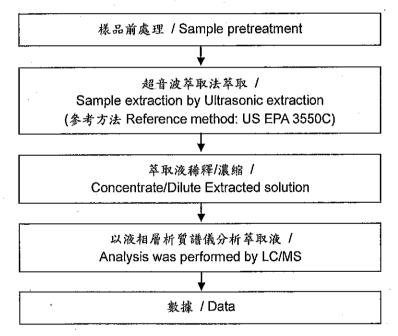
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全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 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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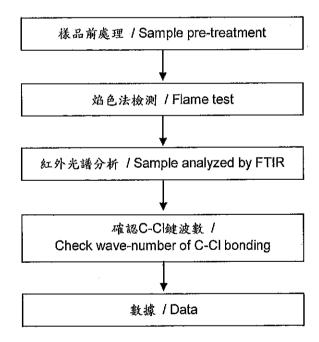
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聚氮乙烯物質判定分析流程圖 /

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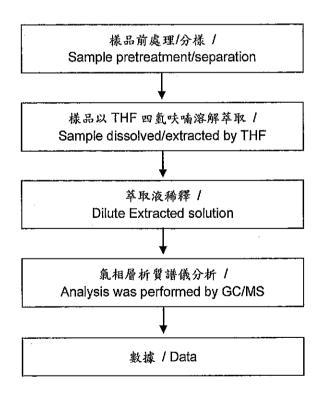
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試入員: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: Trov Chang

【測試方法/Test method: IEC 62321-8】



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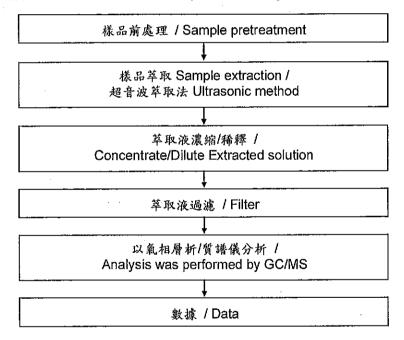
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

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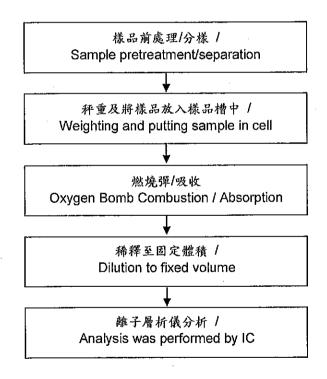
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鹵素分析流程圖 / Analytical flow chart of halogen content

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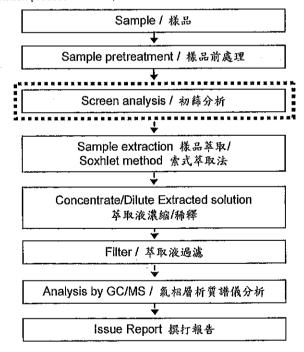
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang 初次測試程序 / First testing process --

選擇性篩檢程序 / Optional screen process • • • • • • •

確認程序 / Confirmation process - · - · ▶



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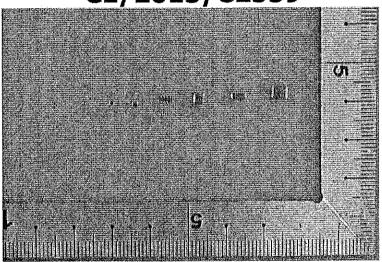
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