

Specification for Approval

Date: 2023/4/1





Customer:

	TAI-TECH P/N: FCM1005KV-601T03R55-HD									
	CUSTOMER P/N:									
	DESCRIPTION:									
	QUANTITY:	pcs	<u> </u>							
REMARK:										
Customer Approval Feedback										

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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Sales Dep.

APPROVED	CHECKED
管哲頎 Eric Guan	蒯青榮

R&D Center

APPROVED	CHECKED	DRAWN
鄧福興	浦冬生	浦婷婷

Ferrite Chip Bead(Lead Free)

FCM1005KV-601T03R55-HD

	ECN HISTORY LIST									
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN					
1.0	17/12/15	初版發行	鄧福興	浦冬生	王俞琴					
2.0	20/08/01	更新 Reflow 依 IPC EDEC J-STD-020E	鄧福興	浦冬生	王俞琴					
3.0	22/12/05	更新可靠度及更正 Reflow 敘述	鄧福興	浦冬生	王俞琴					
備										
註										

TAI-TECH KBM01-230300887 P2.

Ferrite Chip Bead(Lead Free)

FCM1005KV-601T03R55-HD

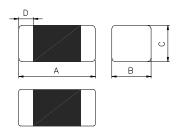
Certificate

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. Reliability test meet AEC-Q200.
- 9. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 10. Operating Temperature: -55~+150°C (Including self-temperature rise)

2.Dimensions



A 1.00±0.10 B 0.50±0.10 C 0.50±0.10	Chip Size				
	Α	1.00±0.10			
C 0.50±0.10	В	0.50±0.10			
	С	0.50±0.10			
D 0.25±0.10	D	0.25±0.10			

Units: mm

3.Part Numbering



A: Series

B: Dimension

C: Material

D: Category Code

E: Impedance

F: Packaging

G: Rated Current H:RDC

I:Category Code

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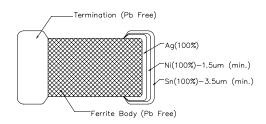
Lead Free Material V=Vehicle

601=600Ω

LxW

T=Taping and Reel, B=Bulk(Bags)

03=300mA

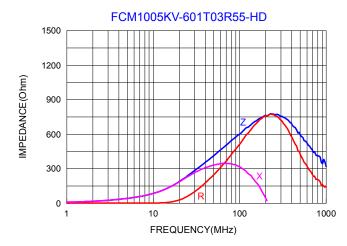


4.Specification

Tai-Tech Part Number	Impedance (Ω)	Test Frequency (Hz)	DC Resistance (Ω) max.	Rated Current (mA) max.
FCM1005KV-601T03R55-HD	600±25%	60mV/100M	0.55	300

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

■ Impedance-Frequency Characteristics



TAI-TECH KBM01-230300887 P3.

5. Reliability and Test Condition

Item		Performance		Test Condition
Series No.	FCB	FCM FCM	НСВ	
Operating Temperature		-55~+150℃ (Including self-temperature	-	
Transportation Storage Temperature		-55~+150°C (on board)	For long storage conditions, please see the Application Notice	
Impedance (Z)				Agilent4291 Agilent E4991 Agilent4287 Agilent16192
DC Resistance	Refer to standard elect	rical characteristics list		Agilent 4338
Rated Current				DC Power Supply Over Rated Current requirements, there will be some risk
Temperature Rise Test	Rated Current < 1A $\Delta T 2$ Rated Current \geq 1A ΔT			Applied the allowed DC current. Temperature measured by digital surface Thermometer.
High Temperature Exposure(Storage)				Preconditioning:Run through reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles Temperature: 150±2°C Duration: 1000hrs Min. Measured at room temperature after placing for 24±2 hrs
Temperature Cycling	Appearance : No dama Impedance : within±15 RDC : Within ±15% of	Preconditioning:Run through reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles Condition for 1 cycle Step1: -55±2°C 30min Min Step2: 150±2°C transition time 1min MAX. Step3: 150±2°C 30min Min. Step4: Low temp. transition time 1 min MAX. Number of cycles: 1000 Measured at room temperature after placing for 24±2 hrs		
Biased Humidity (AEC-Q200)	Appearance : No dama			Preconditioning:Run through reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles Humidity :85±3%RH. Temperature :85±2°C. Duration :1000 hrs Min. Measured at room temperature after placing for 24±2 hrs
Impedance: within±15% of initial value RDC: Within ±15% of initial value and shall not exceed the specifical High Temperature Operational Life				Preconditioning:Run through reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles Temperature : 150±2°C Duration : 1000hrs Min. with 100% rated current. Measured at room temperature after placing for 24±2 hrs
External Visual	Appearance : No dama	age.		Inspect device construction, marking and workmanship. Electrical Test not required.
Physical Dimension	According to the produc	t specification size measurer	nent	According to the product specification size measurement
Resistance to Solvents	Appearance : No dama	ge.		Add aqueous wash chemical - OKEM clean or equivalent.

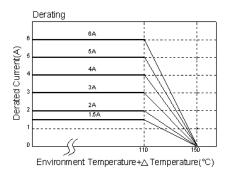
TAI-TECH KBM01-230300887 P4.

Item	Performance	Test Condition				
		Preconditioning:Run through reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles Test condition:				
Mechanical Shock		Туре	Peak alue (g's)	Normal duration (D) (ms)	Wave form	Velocity change (Vi)ft/sec
		SMD	100	6	Half-sine	12.3
		Lead	100	6	Half-sine	12.3
				each o ces(18 sho	direction a cks).	along 3
Vibration	Appearance: No damage. Impedance: within±15% of initial value RDC: Within±15% of initial value and shall not exceed the specification value	times.(I Reflow F Oscillation for 20 m Equipment Total Am	PC/JED Profiles on Fred inute ent: Vib aplitude: Time: 1	EC J-STD quency: 10 ration che- 5g 2 hours(20	ugh reflo -020E Clas DHz ~ 2KH. cker) minutes,	ssification
		,		condition K	i)	
Resistance to Soldering		Tempera (°0		Time (s)	Temperaturamp/immeand emers	ersion
Heat		250 ±5 (solder t	emp)	30 ±5	1°C/s-4°0 abo 183°C,90	ve
Thermal shock	Appearance: No damage. Impedance: within±15% of initial value RDC: Within ±15% of initial value and shall not exceed the specification value	Preconditioning:Run through reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles Condition for 1 cycle Step1: -55±2°C 15±1min Step2: 150±2°C 15±1min Step3: 150±2°C 15±1min Number of cycles: 300 Measured at room temperature after placing for 24±2hrs				
ESD	Appearance : No damage.	COMPO Wavefor Test med Test mod	NENT I m to a C thod: AE de:Cor		get 02 arge	PASSIVE Discharge
Solder ability	More than 95% of the terminal electrode should be covered with solder.	a.Method B, 4 hrs @155°C dry heat @235°C±5°C Test time:5 +0/-0.5 seconds. b. Method D category 3. (steam aging 8hours ± 15 min)@ 260°C±5°C Test time: 30 +0/-0.5 seconds.				
Electrical Characterization	Refer Specification for Approval	Summary to show Min, Max, Mean and Standard deviation				
Flammability	Electrical Test not required.	V-0 or \	V-1 are	accepta	ble.	

TAFTEON		14BHI01-230300007 1 3.
Item	Performance	Test Condition
Board Flex	Support Solder Chip Printed circuit board before 45±2 45±2 45±2 45±2 Receive-4 Appearance: No damage. Printed circuit board under test Displaceme	Reflow Profiles Place the 100mm X 40mm board into a fixture similar to the one shown in below Figure with the component facing down. The apparatus shall consist of mechanical means to apply a force which will bend the board (D) x = 2 mm minimum. The duration of the applied forces shall be 60 (+ 5) sec. The force is to be applied only once to the board.
Terminal strength	Appearance : No damage.	

**Derating Curve

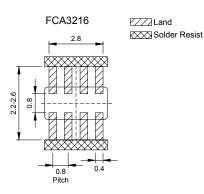
For the ferrite chip bead which withstanding current over 1.5A, as the operating temperature over 110°C , the derating current information is necessary to consider with. For the detail derating of current, please refer to the Derated Current vs. Operating Temperature curve.

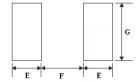


6. Soldering and Mounting

6-1. Recommended PC Board Pattern

Chip Size							Land Patterns For Reflow Soldering		
Series	Туре	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	
	<mark>1005</mark>	1.0±0.10	0.50±0.10	0.50±0.10	0.25±0.10	<mark>0.50</mark>	<mark>0.40</mark>	<mark>0.60</mark>	
FCB	1606	1.6±0.15	0.80±0.15	0.60±0.15	0.30±0.20	0.80	0.85	0.95	
FCM	1608	1.6±0.15	0.80±0.15	0.80±0.15	0.30±0.20	0.80	0.85	0.95	
нсв	0040	2.0±0.20	1.25±0.20	0.85±0.20	0.50±0.30		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	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	





 ${\sf PC}$ 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. TAI-TECH 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.

6-2.1 Soldering Reflow:

Recommended temperature profiles for lead free re-flow soldering in Figure 1. Table 1.1&1.2 (J-STD-020E)

6-2.2 Soldering Iron:

Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended. (Figure 2.)

- Preheat circuit and products to 150°C
 350°C tip temperature (max)
- · Never contact the ceramic with the iron tip

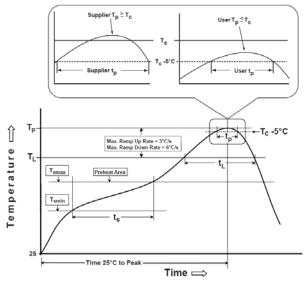
• 1.0mm tip diameter (max)

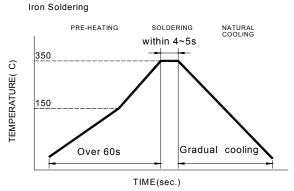
• Use a 20 watt soldering iron with tip diameter of 1.0mm

Fig.2 Iron soldering temperature profiles

· Limit soldering time to 4~5sec.

Fig.1 Soldering Reflow





Iron Soldering times: 1 times max

Reflow times: 3 times max

Table (1.1): Reflow Profiles

Profile Type:	Pb-Free Assembly
Preheat -Temperature Min(T _{smin}) -Temperature Max(T _{smax}) -Time(t _s)from(T _{smin} to T _{smax})	150℃ 200℃ 60-120seconds
Ramp-up rate(T_L to T_p)	3℃/second max.
	217℃ 60-150 seconds
Classification temperature(T _c)	See Table (1.2)
Time(tp) at Tc- $5^{\circ}\mathrm{C}$ (Tp should be equal to or less than Tc.)	< 30 seconds
Ramp-down rate(T _p to T _L)	6℃ /second max.
Time 25℃ to peak temperature	8 minutes max.

Tp: maximum peak package body temperature, Tc: the classification temperature.

For user (customer) \boldsymbol{Tp} should be equal to or less than $\boldsymbol{Tc}.$

Table (1.2) Package Thickness/Volume and Classification Temperature (Tc)

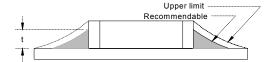
	Package	Volume mm ³	Volume mm ³	Volume mm ³
	Thickness	<350	350-2000	>2000
	<1.6mm	260°C	260°C	260°C
PB-Free Assembly	1.6-2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

Reflow is referred to standard IPC/JEDEC J-STD-020E •

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:

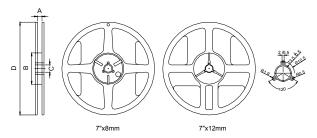
Minimum fillet height = soldering thickness + 25% product height



TAI-TECH KBM01-230300887 P6.

7. Packaging Information

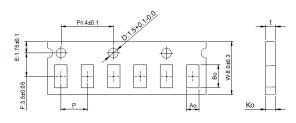
7-1. Reel Dimension



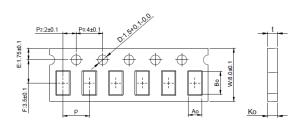
Туре	A(mm)	B(mm)	C(mm)	D(mm)	
7"x8mm	9.0±0.5	<mark>60±2</mark>	13.5±0.5	<mark>178±2</mark>	
7"x12mm	13.5±0.5	60±2	13.5±0.5	178±2	

7-2.1 Tape Dimension / 8mm

■Material of taping is paper

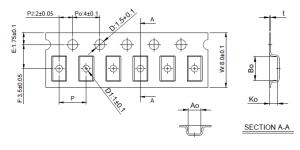


Size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)
<mark>100505</mark>	1.12±0.03	<mark>0.62±0.03</mark>	<mark>0.60±0.03</mark>	<mark>2.0±0.05</mark>	<mark>0.60±0.03</mark>



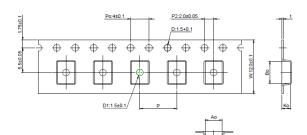
Size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)
160806	1.78±0.03	0.97±0.03	0.75±0.03	4.0±0.10	0.75±0.03
160808	1.80±0.05	0.96+0.05/-0.03	0.95±0.05	4.0±0.10	0.95±0.05
201209	2.10±0.05	1.30±0.05	0.95±0.05	4.0±0.10	0.95±0.05

■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



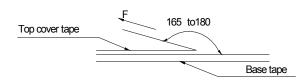
Size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)	D1(mm)
451616	4.70±0.10	1.75±0.10	1.75±0.10	4.0±0.10	0.24±0.05	1.5±0.10
453215	4.70±0.10	3.45±0.10	1.60±0.10	8.0±0.10	0.24±0.05	1.5±0.10

TAI-TECH KBM01-230300887 P7.

7-3. Packaging Quantity

Chip Size	453215	451616	322513	321611	321609	201212	201209	160808	160806	<mark>100505</mark>
Chip / Reel	1000	2000	2500	3000	3000	2000	4000	4000	4000	<mark>10000</mark>
Inner box	4000	8000	12500	15000	15000	10000	20000	20000	20000	<mark>50000</mark>
Middle box	20000	40000	62500	75000	75000	50000	100000	100000	100000	<mark>250000</mark>
Carton	40000	80000	125000	150000	150000	100000	200000	200000	200000	<mark>500000</mark>

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 solderability of terminal electrodes:

- 1. TAI-TECH products meet IPC/JEDEC J-STD-020E standard-MSL, level 1.
- 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.
- ${\it 3. } \ {\it Bulk handling should ensure that abrasion and mechanical shock are minimized.}$





Test Report

號碼(No.): ETR22B04558

日期(Date): 06-Dec-2022

頁數(Page): 1 of 15

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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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 the applicant as):

樣品名稱(Sample Name) : FERRITE CHIP BEAD、FERRITE CHIP INDUCTOR、ARRAY、MCF、MCM、

YMV SERIES

樣品型號(Style/Item No.) : FERRITE CHIP BEAD、FERRITE CHIP INDUCTOR、ARRAY、MCF、MCM、

YMV SERIES

收件日(Sample Receiving Date) : 29-Nov-2022

測試期間(Testing Period) : 29-Nov-2022 to 06-Dec-2022

測試需求(Test Requested) : 依據客戶要求進行測試‧測試項目請參閱測試結果表格。 (Testing item(s) is/are

specified by client. Please refer to result table for testing item(s).)

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

Troy Chang / Department Mayager
Signed for and on behalf of Alwan
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 4545AB9D

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Test Report

號碼(No.): ETR22B04558 日期(Date): 06-Dec-2022

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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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)

測試部位敘述 (Test Part Description)

No.1 : 整體混測 (MIXED ALL PARTS)

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	參考IEC 62321-5: 2013.以感應耦合電漿發射光 譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	參考IEC 62321-5: 2013.以感應耦合電漿發射光 譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439- 97-6)	參考IEC 62321-4: 2013+ AMD1: 2017‧以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI)) (CAS No.: 18540-29-9)	參考IEC 62321-7-2: 2017·以紫外光-可見光分光 光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.

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Test Report

號碼(No.): ETR22B04558 日期(Date): 06-Dec-2022 頁數(Page): 3 of 15

西北臺慶科技股份有限公司 (TAI-TECH ADVANCED ELECTRONICS CO., LTD.)

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
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	5	n.d.
十溴聯苯 (Decabromobiphenyl)	參考IEC 62321-6: 2015·以氣相層析儀/質譜儀分	mg/kg	5	n.d.
多溴聯苯總和 (Sum of PBBs)	参与IEC 02321-0. 2013・以業相層が展/負電報力析。(With reference to IEC 62321-6: 2015,	mg/kg	-	n.d.
一溴聯苯醚 (Monobromodiphenyl ether)	analysis was performed by GC/MS.)	mg/kg	5	n.d.
二溴聯苯醚 (Dibromodiphenyl ether)	analysis was performed by GC/W3.)	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.
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.

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Test Report

號碼(No.): ETR22B04558 日期(Date): 06-Dec-2022

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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl		mg/kg	50	n.d.
phthalate (BBP)) (CAS No.: 85-68-7)				
鄰苯二甲酸二丁酯 (DBP) (Dibutyl		mg/kg	50	n.d.
phthalate (DBP)) (CAS No.: 84-74-2)				
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-		mg/kg	50	n.d.
(2-ethylhexyl) phthalate (DEHP)) (CAS				
No.: 117-81-7)				
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl		mg/kg	50	n.d.
phthalate (DIBP)) (CAS No.: 84-69-5)				
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl	參考IEC 62321-8: 2017,以氣相層析儀/質譜儀分	mg/kg	50	n.d.
phthalate (DIDP)) (CAS No.: 26761-40-	析。(With reference to IEC 62321-8: 2017,			
0, 68515-49-1)	analysis was performed by GC/MS.)			
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl	analysis was performed by GC/1813.)	mg/kg	50	n.d.
phthalate (DINP)) (CAS No.: 28553-12-				
0, 68515-48-0)				
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl		mg/kg	50	n.d.
phthalate (DNOP)) (CAS No.: 117-84-0)				
鄰苯二甲酸二正戊酯 (DNPP) (Di-n-		mg/kg	50	n.d.
pentyl phthalate (DNPP)) (CAS No.:				
131-18-0)				
鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl		mg/kg	50	n.d.
phthalate (DNHP)) (CAS No.: 84-75-3)				

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號碼(No.): ETR22B04558 日期(Date): 06-Dec-2022 頁數(Page): 5 of 15

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α - HBCDD, β - HBCDD, γ - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321-9: 2021.以氣相層析儀/質譜儀分析。(With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.)	mg/kg	20	n.d.
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)		mg/kg	50	n.d.
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537- 15-1)	參考BS EN 14582: 2016 · 以離子層析儀分析。	mg/kg	50	n.d.
溴 (Br) (Bromine (Br)) (CAS No.: 10097- 32-2)	(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜	mg/kg	0.01	n.d.
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)	儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
聚氯乙烯 (Polyvinyl chloride) (PVC)	參考ASTM E1252: 2021·以傅立葉轉換紅外線光 譜儀及焰色法分析。(With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.)	**	-	Negative

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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-		mg/kg	2	n.d.
36-0)	A 字UC FDA 20F2:1006 以咸咗细今雨坞祭射火			
砷 (As) (Arsenic (As)) (CAS No.: 7440-	參考US EPA 3052: 1996,以感應耦合電漿發射光 譜儀分析。(With reference to US EPA 3052:	mg/kg	2	n.d.
38-2)	1996, analysis was performed by ICP-OES.)			
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-	1 2 30, analysis was performed by ICF -OLS.)	mg/kg	2	n.d.
41-7)				

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 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. 全氟辛烷磺酸及其鹽類包含等物質 (PFOS and its salts including): CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
- 8. 全氟辛酸及其鹽類包含等物質 (PFOA and its salts including): CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.
- 9. 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 sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.

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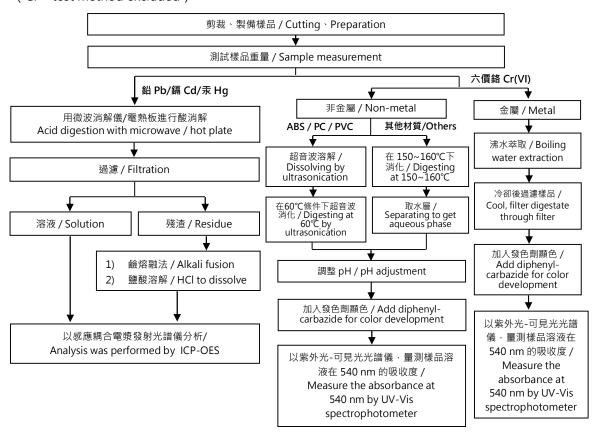
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重金屬流程圖 / Analytical flow chart of heavy metal

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. (Cr^{6+} test method excluded)



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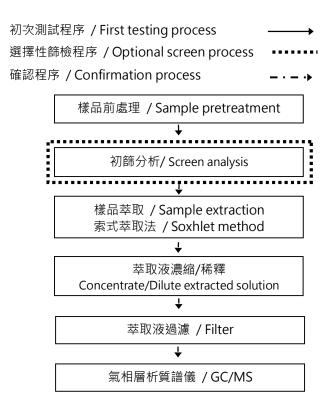
慶邦電子元器件 (泗洪) 有限公司 (TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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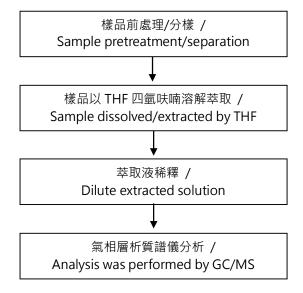
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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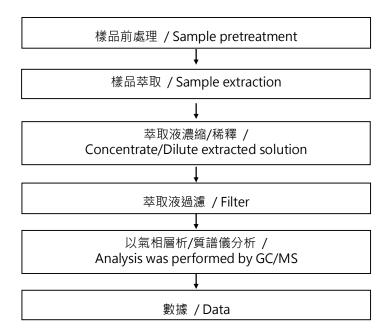
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



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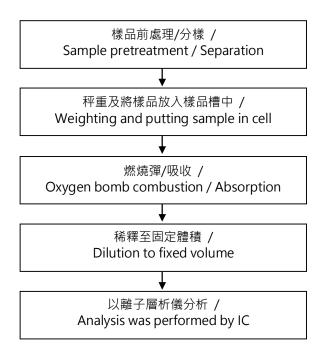
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鹵素分析流程圖 / Analytical flow chart - Halogen



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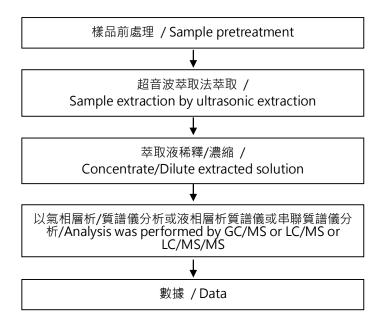
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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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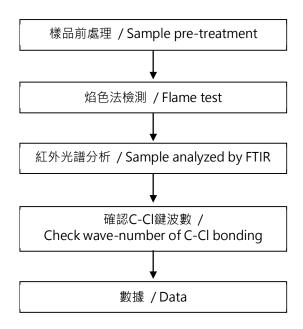
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聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC



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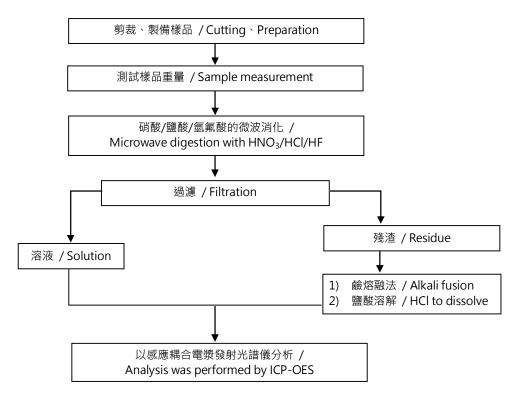
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元素(含重金屬)分析流程圖 / Analytical flow chart of elements (Heavy metal included)

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.

【参考方法/Reference method: US EPA 3051A、US EPA 3052】



^{*} US EPA 3051A 方法未添加氫氟酸 / US EPA 3051A method does not add HF.

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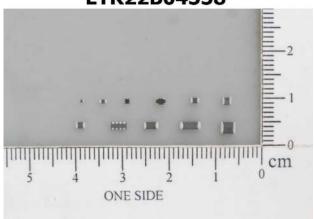
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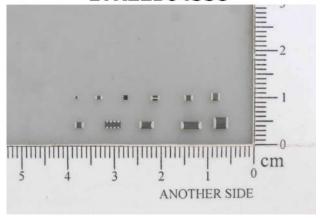
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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR22B04558



ETR22B04558



** 報告結尾 (End of Report) **

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