



Specification for Approval

		Date: 2022	<u>/10/17</u>	_		
	<u>Custor</u>	mer :			-	
	TAI-TECH P/N:	WCM4532F2	SF-102	T10-HD		
	CUSTOMER P/N:					
	DESCRIPTION:					
	QUANTITY:		pcs	-		
RE	MARK:					
	Cu	stomer Approval	Feedbad	ck		
■ 西北臺慶科技股份有限公司 TAI-TECH Advanced Electr <u>Headquarter:</u> NO.1 YOU 4TH ROAD, YOUTH IND TAO-YUAN HSIEN, TAIWAN, R.O.C TEL: +886-3-4641148 FAX: +886 http://www.tai-tech.com.tw E-mail: sales@tai-tech.com.tw	USTRIAL DISTRICT, YANG-N	MEI,				
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□ 臺慶精密電子(昆山)有限公 TAI-TECH ADVANCED ELEC SHINWHA ROAD, KUNJIA HI-TE JIANG-SU, CHINA	CTRONICS(KUNSHAN) (Eric	Kuan	Aries Liu	
TEL: +86-512-57619396 FAX: + E-mail: sales@tai-tech.cn	86-512-57619688		R&D C	enter		
□ 慶邦電子元器件(泗洪)有限公TAIPAQ ELECTRONICS (SIHO			APPI	ROVED	CHECKED	DRAWN
Sihong development zone Sugint TEL: +86-527-88601191 FAX: +86 E-mail: sales@taipaq.cn	City, Jiangsu , CHINA.		楊	祥忠	林志鴻	何玉蓮
			Mike	e Yang	Zhi-Hong Lin	Anna Ho

Wire Wound Type Common Mode Filter WCM4532F2SF-102T10-HD

		ECN HIS	TORY LIST	Γ	
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN
1.0	22/10/17	新發行	楊祥忠	林志鴻	何玉蓮
備					
註					

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Wire Wound Type Common Mode Filter

WCM4532F2SF-102T10-HD

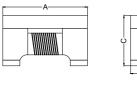
1. Features

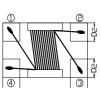
- 1. High common mode impedance at high frequency cause excellent noise suppression performance.
- 2. WCM4532F2SF series realizes small size and low profile. 4.5x3.2x2.8 mm.
- 3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 4. Operating temperature-40~+125℃ (Including self temperature rise)



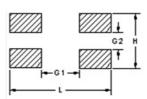


2. Dimension





Recommended PC Board Pattern



Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	L(mm)	H(mm)	G1(mm)	G2(mm)
4532F2SF	4.5±0.2	3.2±0.2	2.8±0.2	1.0±0.1	1.2±0.1	4.8	3.8	2.5	0.7

Units: mm

3. Part Numbering

WCM	4532	F	2	S	F	-	102	T	10	-	HD
Α	В	С	D	Е	F		G	Н	ı		J

A: Series B: Dimension

C: Material Ferrite Core
D: Number of Lines 2=2 lines

E: Type S=Shielded , N=Unshielded

F: Lead free

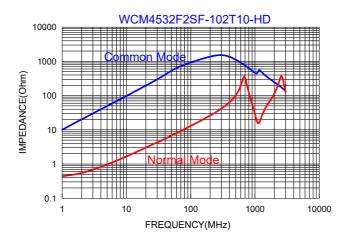
G: Impedance $102=1000\,\Omega$ H: Packaging T=Taping and Reel I: Rated Current 10=1000mA

J: Control S/N

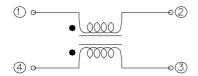
4. Specification

TAI-TECH Part Number	Common mode Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA) max.	Rated Volt. (Vdc) max.	Withstand Volt. (Vdc) max.	IR (Ω) min.
WCM4532F2SF-102T10-HD	1000±25%	100	0.24	1000	50	125	10M

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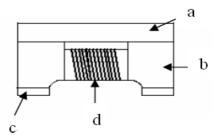


5. Schematic Diagram



6. Materials

No.	Description	Specification
a.	Upper Plate	Ferrite
b.	Core	Ferrite Core
С	Termination	Ag/Ni/Sn
d	Wire	Enameled Copper Wire



7. Reliability and Test Condition

Item	Performance	Test Condition
Operating temperature	-40~+125℃ (Including self - temperature rise)	
Storage temperature	-40~+125℃ (on board)	
Electrical Performance Tes	st	
Z(common mode)		Keysight E4991B + Keysight 16197A
DCR	Refer to standard electrical characteristics list.	Agilent-34420A Agilent-4338B
I.R.		Chroma 19073
Temperature Rise Test	Rated Current ∆T 40°C Max	Applied the allowed DC current. Temperature measured by digital surface thermometer
Reliability Test		
Life Test		Preconditioning: Run through IR reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles) Temperature: 125±2°C Applied current: rated current Duration: 1000±12hrs Measured at room temperature after placing for 24 hrs.
Load Humidity		Preconditioning: Run through IR reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles Humidity: 85±3% R.H, Temperature: 85°C±2°C Duration: 1000hrs Min. Bead: with 100% rated current. Inductance: with 10% rated current Measured at room temperature after placing for 24 hrs.
Moisture Resistance	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 IR reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles 1. Baked at50 $^{\circ}$ for 25hrs, measured at room temperature after placing for 4 hrs. 2. Raise temperature to $65\pm2^{\circ}$ C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25° C in 2.5hrs. 3. Raise temperature to $65\pm2^{\circ}$ C 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25° C in 2.5hrs, and keep 3 hours, cool down to 25° C in 2.5hrs, keep at 25° C for 2 hrs then keep at -10° C for 3 hrs 4. Keep at 25° C 80-100%RH for 15min and vibrate at the frequency of 10 to 55 Hz to 10 Hz, measure at room temperature after placing for 1~2 hrs.
Thermal shock		Preconditioning: Run through IR reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles Condition for 1 cycle Step1: -40±2°ℂ 30±5min Step2: 125±2°ℂ ≦0.5min Step3: 125±2°ℂ 30±5min Number of cycles: 500 Measured at room temperature after placing for 24 hrs.
Vibration		Oscillation Frequency: 10Hz ~2KHz ~10Hz for 20 minute Equipment: Vibration checker Total Amplitude:10g Testing Time: 12 hours(20 minutes, 12 cycles each of 3 orientations)

Performance	Test Condition					
Appearance : No damage. Impedance : within±15% of initial value	Shall be mounted on a FR4 substrate of the following dimensions: >=0805 inch(2012mm):40x100x1.2mm <0805 inch(2012mm):40x100x0.8mm Bending depth: >=0805 inch(2012mm):1.2mm <0805 inch(2012mm):0.8mm duration of 10 sec.					
RDC: within ±15% of initial value and shall not exceed the specification value	Type Peak value duration (D) Wave form Velocity change (y's) (ms) (Vi)ft/sec					
	SMD 50 11 Half-sine 11.3					
	Lead 50 11 Half-sine 11.3					
	3 shocks in each direction along 3 perpendicular axes. (18 shocks).					
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 Testing Time :5 +0/-0.5 seconds b. Method D category 3. (8hours ± 15 min)@ 260°C±5°C Testing Time :30 +0/-0.5 seconds					
	Depth: completely cover the termination Temperature ramp/immersion and emersion rate Number of heat cycles 260 ±5 (solder temp) 10 ±1 25mm/s ±6 mm/s 1					
Appearance: No damage. Impedance: within±15% of initial value RDC: within ±15% of initial value and shall not exceed the specification value e	Preconditioning: Run through IR reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles With the component mounted on a PCB with the device to be tested, apply a force(>0805:1kg , <=0805:0.5kg)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 apply a shock to the component being tested.					
	Appearance: No damage. Impedance: within±15% of initial value 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. Appearance: No damage. Impedance: within±15% of initial value RDC: within ±15% of initial value and shall not					

8. Soldering and Mounting

8-1. 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.

8-1.1 IR Soldering Reflow:

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

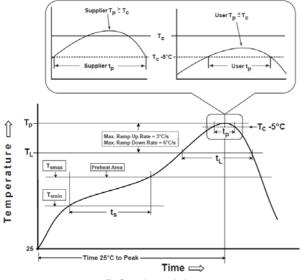
8-1.2 Soldering Iron:

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.)

- Never contact the ceramic with the iron tip
- Use a 20 watt soldering iron with tip diameter of 1.0mm

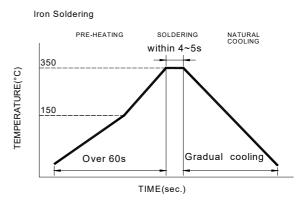
• Limit soldering time to 4~5sec.

- 350°C tip temperature (max) • 1.0mm tip diameter (max)
- Fig.1 IR Soldering Reflow



Reflow times: 3 times max

Fig.2 Iron soldering temperature profiles



Iron Soldering times: 1 times max

Table (1.1): Reflow Profiles

Profile Type:	Pb-Free Assembly
$eq:total_continuous_cont$	150°C 200°C 60-120seconds
Ramp-up rate(T _L to T _p)	3°ℂ/second max.
Liquidus temperature(T _L) Time(t _L)maintained above T _L	217°C 60-150 seconds
Classification temperature(T _c)	See Table (1.2)
$\label{eq:tp} \mbox{Time}(t_p) \mbox{ at Tc-} \mbox{ 5}^{\circ} \mbox{$^{\circ}$} \mbox{ (Tp should be equal to or less than Tc.)}$	< 30 seconds
Ramp-down rate(T _p to T _L)	6°C /second max.
Time 25°℃ to peak temperature	8 minutes max.

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

For user (customer) **Tp** should be equal to or less than **Tc**.

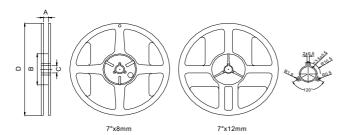
Table (1.2) Package Thickness/Volume and Classification Temperature (T_c)

	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 ∘

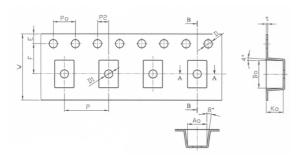
9. Packaging Information

9-1. Reel Dimension



Туре	A(mm)	B(mm)	C(mm)	D(mm)
7"x12mm	13.5±0.5	60.0±2.0	13.5±0.5	178.0±2.0

9-2. Tape Dimension / 12mm

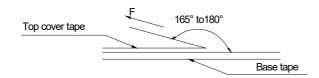


ĺ	Series	P(mm)	Po(mm)	P2(mm)	Bo(mm)	Ao(mm)	Ko(mm)	D(mm)	E(mm)	F(mm)	W(mm)	t(mm)	D1(mm)
I	WCM4532F2S	8.00±0.10	4.00±0.10	2.00±0.05	4.90±0.10	3.60±0.10	3.00±0.10	1.50+0.10/-0.00	1.75±0.10	5.50±0.05	12.00±0.10	0.26±0.05	1.50±0.10

9-3. Packaging Quantity

Chip size	Chip/Reel	Inner Box	Middle Box	Carton
WCM4532F2S	500	2000	10000	20000

9-4. Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp.	Room Humidity	Room atm	Tearing Speed	
(℃)	(%)	(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 form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- $\bullet \ Transportation \\$
 - 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
 - $2. \ The \ use \ of \ tweezers \ or \ vacuum \ pick \ up \ is \ strongly \ recommended \ for \ individual \ components.$
 - 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

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號碼(No.): ETR22303152

日期(Date): 18-Mar-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.)

慶邦電子元器件 (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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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)

WIREWOUND SERIES

樣品型號(Style/Item No.)

WCM(YCW) · WCL · HSF · HDMI · DVI · BCM · PCM · TCM · LCM · LPF ·

TXF · ACM · DCM(YLW) · WIH · BPH · TNH · YCM · STF · APO · OLL ·

FGO · APOC SERIES

收件日(Sample Receiving Date)

: 11-Mar-2022

測試期間(Testing Period)

: 11-Mar-2022 to 18-Mar-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 the SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 29D6F7D2

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

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
NG 1744-8-8-78-4			-	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)	 1	mg/kg	5	n.d.
十溴聯苯 (Decabromobiphenyl)	& 老ICC 63331 € 301E 以复相展长槎/廃鎌崖/)	mg/kg	5	n.d.
多溴聯苯總和 (Sum of PBBs)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015,	mg/kg	-	n.d.
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	n.d.
二溴聯苯醚 (Dibromodiphenyl ether)	analysis was performed by GC/MS.)	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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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1
郷苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl		mg/kg	50	n.d.
phthalate (BBP)) (CAS No.: 85-68-7)	•		го.	
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2)		mg/kg	50	n.d.
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di- (2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7)		mg/kg	50	n.d.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)	参考IEC 62321-8: 2017・以氣相層析儀/質譜儀分析・(With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40- 0, 68515-49-1)		mg/kg	50	n.d.
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12- 0, 68515-48-0)	analysis was performed by GC/MS.)	mg/kg	50	n.d.
娜苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)		mg/kg	50	n.d.
鄰苯二甲酸二正戌酯 (DNPP) (Di-n- pentyl phthalate (DNPP)) (CAS No.: 131-18-0)		mg/kg	50	n.d.
鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)		mg/kg	50	n.d.

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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))	参考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)	 参考BS EN 14582: 2016 · 以離子層析儀分析。 0Alith reference to BS EN 14582: 2016 applying	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)	参考CEN/TS 15968: 2010・以液相層析串聯質譜 儀分析・(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	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)	参考CEN/TS 15968: 2010・以液相層析串聯質譜 儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
聚氯乙烯 (Polyvinyl chloride) (PVC)	參考ASTM E1252: 2013 · 以傅立葉轉換紅外線光	**	_	Negative
	譜儀及焰色法分析。(With reference to ASTM			
	E1252: 2013, analysis was performed by FT-IR			
	and Flame Test.)	4		
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-	參考US EPA 3052: 1996,以感應耦合電漿發射光	mg/kg	2	721
36-0)	譜儀分析。(With reference to US EPA 3052:	,		
	1996, analysis was performed by ICP-OES.)			
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-	參考US EPA 3052: 1996,以感應耦合電漿發射光	mg/kg	2	n.d.
41-7)	譜儀分析。(With reference to US EPA 3052:]
	1996, analysis was performed by ICP-OES.)	,		

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 (PFOS and its salts including):
 - CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.
- 8. 全氟辛酸及其鹽類包含 (PFOA and its salts including):
 - CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
- 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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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



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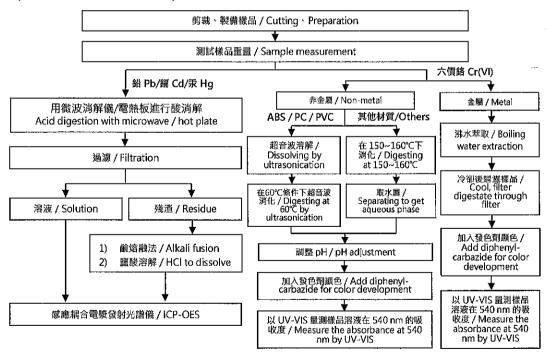
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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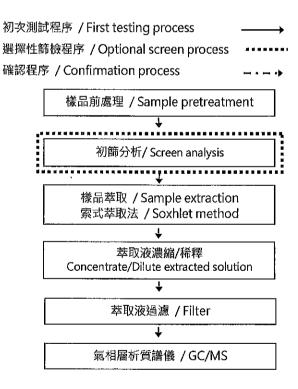
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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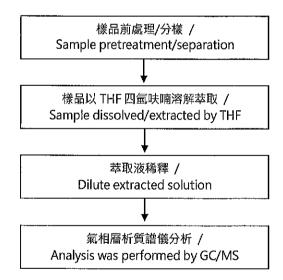
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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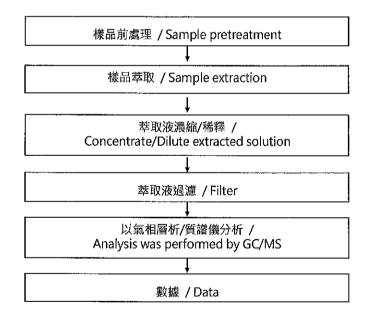
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



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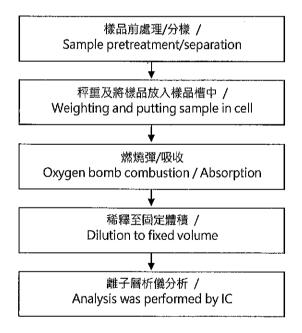
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中國・江蘇省・宿遷市・泗洪縣・經濟開發區杭州路南側・建設北路東側 (THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD · ECONOMIC DEVELOPMENT ZONE · SIHONG COUNTY · SUQIANCITY · JIANGSU PROVINCE · P.R. · CHINA)

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



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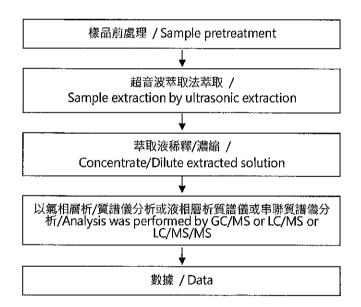
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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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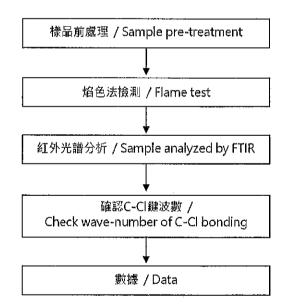
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聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC



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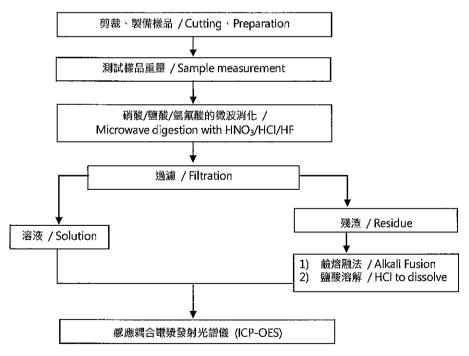
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元素(含重金屬)分析流程圖 / Analytical flow chart of Elements (Heavy metal included)

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.

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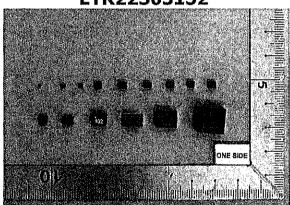
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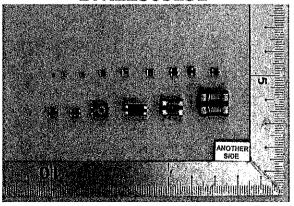
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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR22303152



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** 報告結尾 (End of Report) **

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