

Specification for Approval

		Date: 2022	/07/29	9		
	Customer :					
	TAI-TECH P/N:	SWF1608RIV	/-SER	ES-HD		
	CUSTOMER P/N:					
	DESCRIPTION:					
	QUANTITY:		pcs	<u>-</u>		
REM	MARK:					
	Cu	stomer Approval	Feedba	ick		
西北臺慶科技股份有限公司 TAI-TECH Advanced Electro <u>Headquarter:</u> NO.1 YOU 4TH ROAD, YOUTH INDU TAO-YUAN HSIEN, TAIWAN, R.O.C. TEL: +886-3-4641148 FAX: +886-3 http://www.tai-tech.com.tw E-mail: sales@tai-tech.com.tw	STRIAL DISTRICT, YANG-M		Sales	Dep.	_	
Office: 深圳辦公室			APF	ROVED	CHECKED	1
11BC,Building B Fortune Plaza,NO. District Shenzhen TEL: +86-755-23972371 FAX: +86-	-755-23972340	tian		哲頎 Kuan	劉瑷瑄	-
臺慶精密電子(昆山)有限公司 TAI-TECH ADVANCED ELEC' SHINWHA ROAD, KUNJIA HI-TECI JIANG-SU, CHINA TEL: +86-512-57619396 FAX: +86 E-mail: sales@tal-tech.cn	TRONICS(KUNSHAN) C H INDUSTRIAL PARK, KUN			Center	Aries Liu	
慶邦電子元器件(泗洪)有限公 TAIPAQ ELECTRONICS (SIHOI Sihong development zone Suqian C	NG) CO., LTD City, Jiangsu , CHINA.			PROVED	CHECKED	DRAWN
TEL: +86-527-88601191 FAX: +86-5 E-mail: sales@taipaq.cn	527-88601190			悬祥忠 se Yang	徐鋒強 Gemini Hsu	何玉蓮 Anna Ho

Winding Type Chip Inductor

SWF1608RIV-SERIES-HD

	ECN HISTORY LIST								
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN				
1.0	22/07/29	新 發 行	楊祥忠	徐鋒強	何玉蓮				
備									
註									

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Winding Type Chip Inductor

SWF1608RIV-SERIES-HD

1. Features

- 1. Ferrite core wire wound construction.
- 2. High Reliability due to wire wound type construction.
- 3. Small footprint as well as low profile.
- 4. 100% Lead (Pb) & Halogen-Free and RoHS compliant.
- 5. Operating temperature-55~+125°ℂ (Including self temperature rise)
- 6. These products provide low DC resistance and high current.
- 7. Precision inductance tolerance is available.
- 8. High reliability -Reliability comply with AEC-Q200
- 9. Application for DC power line.

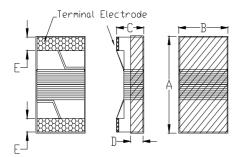
Digital camera and other electronic equipment

Personal computers, Hard disk drives

Mobile Device / Handheld Device / LowProfile Device / Panel

xDSL modem and Cable modem

2. Dimensions



Size	Α	В	С	D	E
SWF1608	1.60±0.20	1.00±0.20	1.00±0.10	0.60 ref.	0.35±0.10

Unit:mm

3. Part Numbering



A: Series

B: Dimension L x W

C: Control S/N

 D: Material
 I3C

 E: Category Code
 V=Vehicle

 F: Inductance
 2R2=2.20uH

 G: Inductance Tolerance
 K=±10%, M=±20%

H: Control S/N

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q/MHz Typ.	SRF (MHz) Typ.	DCR (Ω) ±30%	Isat (mA) Typ.	Irms (mA) Typ.
SWF1608RIV-R10 -HD	0.10	K,M	0.5V/7.9M	13/7.9	1150	0.063	1700	1400
SWF1608RIV-R15 -HD	0.15	K,M	0.5V/7.9M	13/7.9	1050	0.074	1700	1300
SWF1608RIV-R27 -HD	0.27	K,M	0.5V/7.9M	13/7.9	1000	0.12	1400	1100
SWF1608RIV-R33 -HD	0.33	K,M	0.5V/7.9M	13/7.9	1100	0.13	1300	1000
SWF1608RIV-R47 -HD	0.47	K,M	0.5V/7.9M	13/7.9	900	0.18	1100	900
SWF1608RIV-R56 -HD	0.56	K,M	0.5V/7.9M	13/7.9	630	0.20	1100	800

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TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q/MHz Typ.	SRF (MHz) Typ.	DCR (Ω) ±30%	Isat (mA) Typ.	Irms (mA) Typ.
SWF1608RIV-R68 -HD	0.68	K,M	0.5V/7.9M	13/7.9	510	0.22	900	750
SWF1608RIV-1R0 -HD	1.0	K,M	0.5V/7.9M	16/7.9	390	0.32	860	700
SWF1608RIV-1R5 -HD	1.5	K,M	0.5V/7.9M	16/7.9	160	0.40	720	600
SWF1608RIV-2R2 -HD	2.2	K,M	0.5V/7.9M	16/7.9	103	0.56	600	580
SWF1608RIV-3R3 -HD	3.3	K,M	0.5V/7.9M	16/7.9	66	0.70	500	500
SWF1608RIV-4R7□-HD	4.7	K,M	0.5V/7.9M	16/7.9	51	0.97	400	420
SWF1608RIV-5R6 -HD	5.6	K,M	0.5V/7.9M	16/7.9	47	1.10	380	380
SWF1608RIV-6R8 -HD	6.8	K,M	0.5V/7.9M	16/7.9	43	1.50	340	340
SWF1608RIV-8R2 -HD	8.2	K,M	0.5V/7.9M	16/7.9	40	1.68	300	300
SWF1608RIV-100 -HD	10	K,M	0.5V/2.5M	14/2.5	36	1.85	280	280
SWF1608RIV-150 -HD	15	K,M	0.5V/2.5M	14/2.5	29	2.60	240	240
SWF1608RIV-180 -HD	18	K,M	0.5V/2.5M	14/2.5	28	2.90	220	220
SWF1608RIV-220 -HD	22	K,M	0.5V/2.5M	14/2.5	24	3.61	200	200

Note:

Measurement board data

Material : FR4

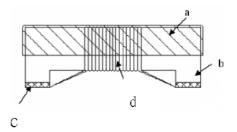
Board dimensions : 100 X 50 X 1.6t mm

Pattern dimensions: 45 X 30 mm (Double side board)

Pattern thickness : 50 µm

5. Materials

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



6. Reliability and Test Condition

Item	Performance	Test Condition					
Operating temperature	-55~+125℃(Including self - temperature rise)						
Storage temperature							
Electrical Performance Tes	ist						
Inductance L							
Q		Agilent E4991A, Keysight E4991B, Keysight 4980AL Agilent-4287, Agilent-4285					
SRF		Agilent E4991A , Keysight E4991B					
	Refer to standard electrical characteristic list	Agilent-34420A					
DC Resistance		Agilent-4338B					
ISAT		Applied the current to coils, the inductance change shall be less than 20% to initial value.					
IRMS	∆T≦40°C	Heat Rated Current (Irms) will cause the coil temperature rise △ T(°ℂ) without core loss. 1.Applied the allowed DC current. 2.Temperature measured by digital surface thermometer					
Reliability Test							
High Temperature Exposure(Storage) AEC-Q200 Temperature Cycling AEC-Q200 Moisture Resistance (AEC-Q200)	Appearance : No damage. 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 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles Temperature: 125±2°C Duration: 1000hrs Min. Measured at room temperature after placing for 24±4 hrs. Preconditioning: Run through IR reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles Condition for 1 cycle Step1: -55±2°C 30min Min. Step2: 125±2°C 30min Min. Step3: 125±2°C 30min Min. Step4: Low temp. Transition time 1min MAX. Number of cycles: 1000 Measured at room temperature after placing for 24±4 hrs. t=24 hours/cycle. Note: Steps 7a & 7b Unpowered.					
Biased Humidity (AEC-Q200) High Temperature Operational Life (AEC-Q200)		J-STD-020E Classification Reflow Profiles Humidity: 85±3% R.H, Temperature: 85℃±2℃ Duration: 1000hrs Min. Measured at room temperature after placing for24±4hrs Preconditioning: Run through IR reflow for 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles Temperature: 125±2℃ Duration: 1000hrs Min. with 100% rated current.					
External Visual	Appearance : No damage.	Measured at room temperature after placing for24±4hrs Inspect device construction, marking and workmanship. Electrical Test not required.					
Physical Dimension	According to the product specification size measurement	According to the product specification size measurement					
Resistance to Solvents	Appearance : No damage.	Add aqueous wash chemical - OKEM clean or equivalent.					
Mechanical Shock	Appearance: No damage. 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	Type Peak value (g's) duration (D) (ms) wave form change (Vi)ft/sec SMD 100 6 Half-sine 12.3 Lead 100 6 Half-sine 12.3 3 shocks in each direction along 3 perpendicular axes. (18 shocks).					

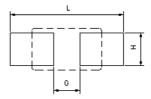
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Item	Performance	Test Condition			
Vibration		IPC/JEDEC J-STD-020E Classification Reflow Profiles Oscillation Frequency: 10Hz ~ 2KHz ~ 10Hz for 20 minute Equipment: Vibration checker Total Amplitude:5g Testing Time: 12 hours(20 minutes, 12 cycles each of 3 orientations)			
Resistance to Soldering Heat		Test condition : Temperature Temperatu			
Thermal shock (AEC-Q200)	Appearance: No damage. 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 3 times.(IPC/JEDEC J-STD-020E Classification Reflow Profiles Condition for 1 cycle Step1:-55±2°C 15±1min Step2:125±2°C within 20Sec. Step3:125±2°C 15±1min Number of cycles: 300 Measured at room temperature after placing fo/24±4hrs.			
ESD	Appearance:No damage.	Direct Contact and Air Discharge PASSIVE COMPONENT HBM ESD Discharge Waveform to a Coaxial Target Test method: AEC-Q200-002 Test mode: Contact Discharge			
Solderability	More than 95% of the terminal electrode should be covered with solder ${}^{\circ}$	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			
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 acceptable.			
Board Flex	Appearance:No damage	Preconditioning: Run through IR reflow for 3 times.(IPC/JEDEC J-STD-020E Classification 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 (45) sec. The force is to be applied only once to the board. Support Solder Chip Printed circuit board before testing			
		Primed circuit board under tost Displacement			
Terminal Strength(SMD)	Appearance : No damage	AEC-Q200,TAI-TECH SPEC V10N radius 0,5 mm DUT wide thickness shear force			

7. Soldering and Mounting

7-1. Recommended PC Board Pattern

Chip size								Land Patterns For Reflow Soldering		
Series	Туре	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	L(mm)	G(mm)	H(mm)	
SWF	1608	1.60±0.2	1.0±0.2	1.0±0.1	0.60 ref	0.35±0.1	1.92	0.92	1.02	



7-2. 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.

7-2.1 IR Soldering Reflow:

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

7-2.2 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.)

- ${\boldsymbol \cdot}$ Use a 20 watt soldering iron with tip diameter of 1.0mm

- 350℃ tip temperature (max)
- 1.0mm tip diameter (max)
- Limit soldering time to 4~5sec.

Fig.1 IR Soldering Reflow

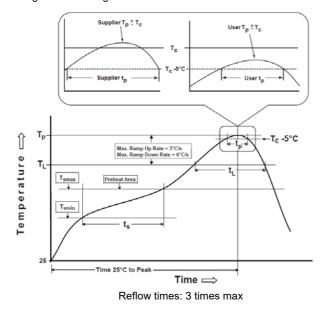
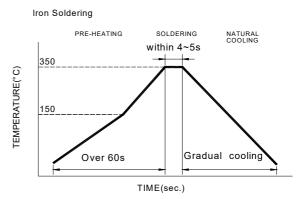


Fig.2 Iron soldering temperature profiles



Iron Soldering times: 1 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°C 200°C 60-120seconds
Ramp-up rate(T _L to T _p)	3°C/second max.
$\label{eq:Liquidus} \begin{array}{c} \text{Liquidus temperature}(T_L) \\ \text{Time}(t_L) \\ \text{maintained above } T_L \end{array}$	217°C 60-150 seconds
Classification temperature(T _c)	See Table (1.2)
$\label{eq:total_final} \mbox{Time}(t_p) \mbox{ at Tc-} 5^{\circ}\mbox{\mathbb{C}} (\mbox{Tp should be equal to or less than Tc.})$	< 30 seconds
Ramp-down rate(T _p to T _L)	6°C /second max.
Time 25°C 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**.

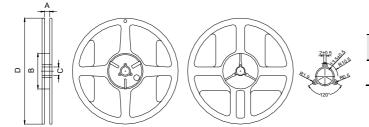
Table (1.2) Package Thickness/Volume and Classification Temperature (T_c)

	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 ∘

8. Packaging Information

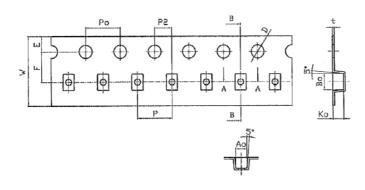
8-1. Reel Dimension



7"x12mm

Type	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.0±0.5	60.0±2.0	13.5±0.5	178.0±2.0

8-2. Tape Dimension / 8mm(black anti-static electricity carrier tape)

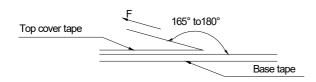


	Series	W(mm)	P(mm)	E(mm)	F(mm)	P2(mm)	D(mm)	D1(mm)	Bo(mm)	Ao(mm)	Ko(mm)	Po(mm)	t(mm)
Ī	SWF1608	8.00±0.10	4.00±0.10	1.75±0.10	3.50±0.05	2.00±0.05	1.50+0.100.00	0.70±0.10	1.78±0.10	1.21±0.10	1.21±0.10	4.00±0.10	0.20±0.05

8-3. Packaging Quantity

SWF	1608
Chip / Reel	4000
Reel Size	7"x8mm

8-4. 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.

- 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.
 - ${\it 3. Bulk\ handling\ should\ ensure\ that\ abrasion\ and\ mechanical\ shock\ are\ minimized.}$

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Test Report

號碼(No.); ETR21805557

日期(Date): 02-Sep-2021

頁數(Page): 1 of 13

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 Name)

WIREWOUND SERIES (FILM BACKING)

樣品型號(Style/Item No.)

SWF · SWC F · PAS · WCM-L2NF · SWF-LF · SWFA · SWF(SWC) ·

ACMU · WCMU · WCM-F2SN · TTC SERIES

收件日(Sample Receiving Date)

26-Aug-2021

測試期間(Testing Period)

26-Aug-2021 to 02-Sep-2021

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.)

Signed for and on behalf SĞS TAIWAN LTD. Chemical Laboratory - Taipei



PIN CODE: 46D15466

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Test Report

號碼(No.): ETR21805557

日期(Date): 02-Sep-2021

頁數(Page): 2 of 13

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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)

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-	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.)	mg/kg	2	n.d.
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-	參考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.)			
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)	參考IEC 62321-6: 2015,以氣相層析儀/質譜儀分	mg/kg	5	n.d.
六溴聯苯 (Hexabromobiphenyl)	析。(With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.
七溴聯苯 (Heptabromobiphenyl)	analysis was performed by GC/MS.)	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)		mg/kg	5	n.d.
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Test Report

號碼(No.): ETR21805557

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

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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)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	n.d.
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.
五溴聯苯醚 (Pentabromodiphenyl ether)	參考IEC 62321-6: 2015,以氣相層析儀/質譜儀分	mg/kg	5	n.d.
六溴聯苯醚 (Hexabromodiphenyl ether)	析・(With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.
七溴聯苯醚 (Heptabromodiphenyl ether)	analysis was performed by GC/MS.)	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.
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: 2008,以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	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。 (With reference to BS EN 14582: 2016, analysis	mg/kg	50	n.d.
溴 (Br) (Bromine (Br)) (CAS No.: 10097- 32-2)	was performed by IC.)	mg/kg	50	n.d.
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		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
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7)		mg/kg	50	n.d.
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)	•	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)	參考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.
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)		mg/kg	50	n.d.
鄰苯二甲酸二正戊酯 (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	測試方法	單位	MDL	結果
(Test Items)	(Method)			(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.)			
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	n.d.
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:	5 5		
	1996, analysis was performed by ICP-OES.)			

備註(Note):

- 1. mg/kq = ppm; 0.1wt% = 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. 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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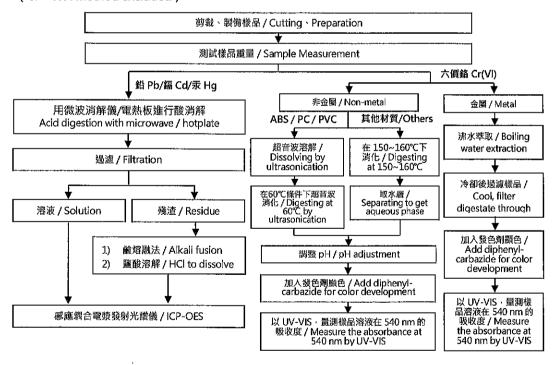
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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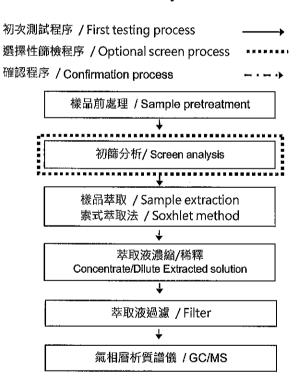
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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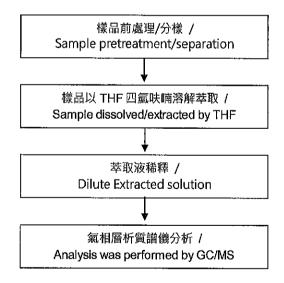
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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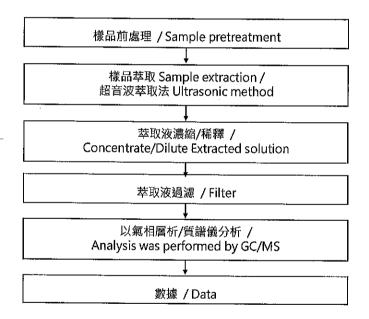
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



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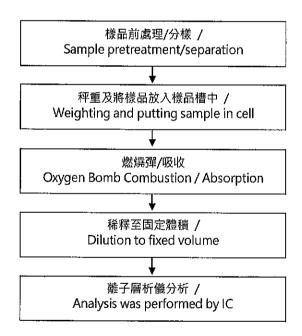
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鹵素分析流程圖 / Analytical flow chart - Halogen



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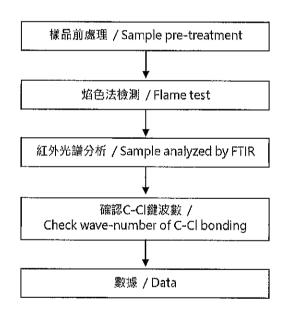
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聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC



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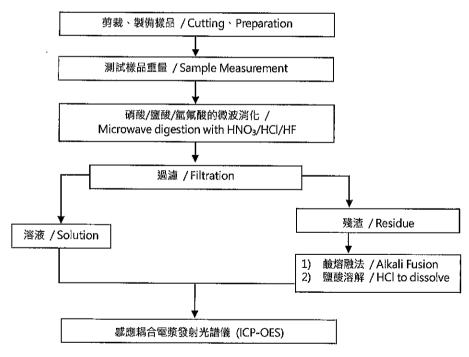
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元素(含重金屬)分析流程圖 / Analytical flow chart of Elements (Heavy metal included)

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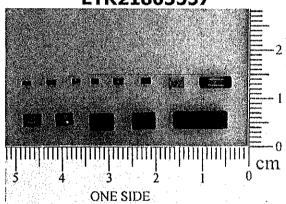
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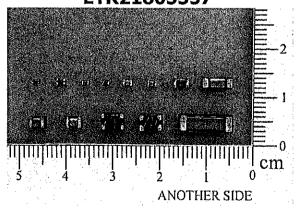
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* 照片中如有箭頭標示‧則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR21805557



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** 報告結尾 (End of Report) **

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