

<b>Specification</b>	<b>for A</b>	pprov	val
	· <u>···</u> ································		
	0NF2-900T01		
CUSTOMER P/N:			
DESCRIPTION:			
QUANTITY:	pcs		
Customer App	roval Feedback		
西 北 臺 慶 科 技 <u>TAI-TECH Advance</u> c			
西北臺慶科技股份有限公司 TAI-TECH Advanced Electronics Co., Ltd Headquarter:	Sales Dep.		
NO.1 YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN HSIEN, TAIWAN, R.O.C. TEL: +886-3-4641148 FAX: +886-3-4643565	APPROVED	CHECKED	
http://www.tai-tech.com.tw E-mail: sales@tai-tech.com.tw	管哲頎	魏佑娟	
東莞臺慶精密電子有限公司 DONGGUAN TAI-TECH ADVANCED ELECTRONICS CO., LTD JITIGANG MANAGEMENT DISTRICT, HUANGJIANG, DONGGUAN, GUANGDONG, CHINA	Eric Guan	Donna Wei	
TEL: +86-769-3365488 FAX: +86-769-3366896 E-mail: twnwe@pub.dgnet.gd.cn Office:	R&D Center		
金亨國際有限公司 KAMHENG INTERNATIONAL LIMITED TEL: +86-852-25772033 FAX: +86-852-28817778	APPROVED	CHECKED	DRAWN
臺慶精密電子(昆山)有限公司 TAI-TECHADVANCED ELECTRONICS(KUNSHAN) CO., LTD SHINWHA ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN,	楊祥忠	羅培君	張嘉玲
JIANG-SU, CHINA TEL: +86-512-57619396	Mike Yang	Peijun Lo	Alin Chang
Office: 北欣國際有限公司 NORTH STAR INTERNATIONAL LIMITED TEL: +86-512-57619396 FAX: +86-512-57619688	L	1	1

### **Multilayer Common Mode Choke Coils**

### MCF1210NF2-900T01

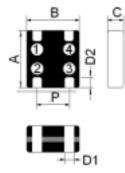
### 1. Scope

This specification applies to Multilayer Common Mode Choke Coil, MCF Series Its Application is limited for the High speed differential transmission line like as followings. USB, LVDS, MIPI, MDDI, MHL, HDMI, DVI.



03

### 2. Dimensions



Chip Size										
А	В	С	Р	D1	D					

0000

Size	Α	В	С	Р	D1	D2
1210	1.25±0.15	1.0±0.15	0.55 ±0.10	0.55±0.10	0.30±0.10	0.25+0.15/-0.1

4

Units: mm

### 3. Part Numbering

F: Rated Current

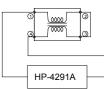
4. Specification

MCF	1210	NF2	-	<mark>900</mark>	T	<mark>01</mark>
А	В	С		D	Е	F
A: Series						
B: Dimensi	on	AxB				
C: Material		Lead Fre	e Code			
D: Impedance		Common Mode Impedance 900=90				
E: Packaging T=Taping and Reel , B=Bulk(Bags)						

01=100mA

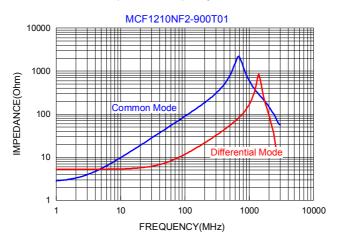
Common-mode 6000 0000 HP-4291A

Normal-mode (Differential-mode)



Tai-Tech Part Number	Common Mode Impedance ( )	Test Frequency (MHz)	Rated Voltage (Vdc) max.	Insulation Resistance (M ) min.	DC Resistance ( ) max.	Rated Current (mA) max.
MCF1210NF2-900T01	90±25%	100	5	100	4.5	100

Impedance-Frequency Characteristics 



### 5. Reliability and Test Condition

Item		Performance	Test Condition		
Series No.		MCF			
Operating Temperature	(	-40~+85 Including self-generated heat)	_		
Transportation Storage Temperature		-40~+85	For long storage conditions, please see Application Notice		
Impedance (Z)			Measuring equipment:4291A or its equivalent Measuring jig: 16192A ( or its equivalent )		
Insulation Resistance			Measuring points: 1 to 2 or 3 to 4 Measuring voltage: Rated voltage		
DC Resistance	Within the specified tolerar	ce	Measuring points: 1 to 2 or 3 to 4		
Rated Current					
	Per table 1. Table 1		Test sample shall be soldered to test board and test shall be conducted under the conditions sho in Table 2. Table 2		
	Appearance	No remarkable Defect	Vibraiton frequency 10Hz to 55Hz		
Vibration	Commom	Within±20%	range           Overall amplitude         1.5mm		
	Impedance change rate	100mΩ min	1 cycle         1min.(10         55         10Hz)           Time         X         2 hours each		
	resistance		Z		
Solderability	More than 75% of terminal	electrode shall be covered with fresh solder.	Test sample shall be immersed into molten sol under the conditions shown in Table 3 a immersed into flux.         After this, test samples shall be taken out a visually checked.         The speed for immersion and taking out shall be mm/s.         Table 3         Solder temperature       245 ±3         Immersion time       4s±1s		
Resistance to Soldering Heat	Per table 1.		Test sample shall be immersed into molten sol after immersed into flux and preheated under conditions shown in Table 4.         After this, test samples shall be taken out a measured after kept at room temperature for 2 thours. (Note 1)         The speed for immersion and taking out shall 25mm/s.         Table 4         Preheating       150 , 3min.         Resistance to       260 ±5         Soldering Heat       Immersion time         Immersion time       10s±0.5s		
Thermal Shock	Per table 1.		Steps 1 to       4 shown in Table 5 as one cycle shall repeated 5 times.         After the test, keep the test sample at a nor temperature with a normal humidity for 2 to 2 hoo them measurement shall be conducted. (Note 1)         Table 5         Step       Temperature()         Duration (min)         1       -40         2       Normal temp         3       +85         4       Normal temp		
Resistance to Humidity	Per table 1.		Test board shall be kept in a thermo hygrosta temperature of 40 $\pm 2$ and relative humidity 90% to 95% for 500+24/-0 hours. After the test, keep the test sample at a nor temperature with a normal humidity for 2 to 3 hou then measurement shall be conducted.(Note 1)		
High Temperature Load Life Test	Per table 1.		Test board shall be kept in a thermostatic oven v temperature of 85 $\pm 2$ for 500+24/-0 hours w supplying 1 to 2 and 3-4 with rated current After the test, keep the test sample at a nor temperature with a normal humidity for 2 to 3 hoo them measurement shall be conducted.(Note 1)		

Item	Performance	Test Condition
High Temperature Life Test	Per table 1.	Test board shall be kept in an atmosphere with temperature of 85 ±2 for 500+24/-0 hours. After the test, keep the test sample at a normal temperature with a normal humidity for 2 to 3 hours, then measurement shall be conducted.(Note 1)
Bending Strength	Appearance: No mechanical damage.	Warp : 2mm(1210),1mm(0806) Testing board : Glass epoxy-resin substrate Thickness : 0.8mm

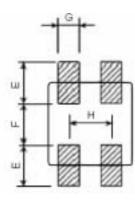
(Note 1) If guestion is found in the result of measurement, another measurement shall be conducted after test samples shall be kept for 48+/-2 hours.

### 6. Soldering and Mounting

### 6-1. Recommended PC Board Pattern

	Chip Size							terns Fo oldering	-
Туре	Α	В	С	D1	D2	Е	F	G	н
0806	0.85±0.05	0.65±0.05	0.40 ±0.05	0.27±0.10	0.20+0.05/-0.1	0.25~0.35	0.25~0.35	0.25~0.35	0.5
1210	1.25±0.15	1.0±0.15	0.55 ±0.10	0.30±0.10	0.25+0.15/-0.1	0.45~0.55	0.7~0.8	0.25~0.35	0.55

Units: mm



PC board should be designed so that products can prevent damage from mechanical stress when warping the board.

Products shall be positioned in the sideway direction against the mechanical stress to prevent failure.

#### 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.

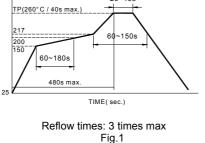
Re-flow soldering temperatures below 240 degrees, there will be non-wetting risk

#### 6-2.1 Lead Free Solder re-flow:

Recommended temperature profiles for lead free re-flow soldering in Figure 1.

### 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. for Iron Soldering in Figure 2. Preheat circuit and products to 150 Never contact the ceramic with the iron tip 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. Iron Soldering Reflow Soldering PRE-HEATING SOLDERING NATURAL COOLING PRE-HEATING SOLDERING NATURAL COOLING within 4~5s 20~40s 350 TP(260°C / 40s max.)



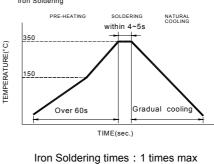


Fig.2

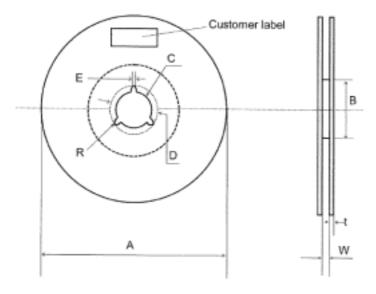
6-2.3 Solder Volume:

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



7-1. Reel Dimension

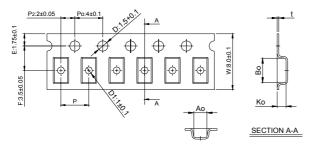


Code	Α	В	С	D	E	w	t	R
Dimension	178±2.0	50 min	13±0.2	21±0.8	2.0±0.5	10±1.5	2.5 max	1.0

Units: mm

# Upper limit \_\_\_\_\_\_ Recommendable

### 7-2. Tape Dimension (paper)



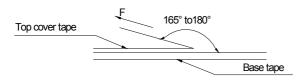
Series	Во	Ao	Ко	Р	t
0806	0.95±0.05	0.75±0.05	0.55±0.05	4.0±0.10	0.3 max
1210	1.40±0.05	1.15±0.05	0.65±0.05	4.0±0.10	0.3 max

Units: mm

#### 7-3. Packaging Quantity

Chip size	0806	1210
Chip /Reel	10000	5000
Inner box	50000	25000
Middle box	250000	125000
Carton	500000	250000

#### 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

- 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 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.



簽名有效 For Question Please Contact with SGS www.tw.sgs.com

# 測試報告 Test Report <sup>號碼(No.)</sup>: CE/2011/C1821 日期(Date): 2011/12/16 頁数(Page): 1 of 12

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD. (東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO., LTD.) (臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.) 桃園縣楊梅市幼獅工業區幼四路1之1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN, TAIWAN, R. O. C.) (廣東省東莞市黄江鎮黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG) (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)

以下測試樣品係由客户送樣, 且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Descript	on) :	FERRIT	E CHIP	BEAD	INDUCTOR	ARRAY	MCF	MCM	YMV	SERIES	
樣品型號(Style/Item No.)	:	FERRIT	E CHIP	BEAD	INDUCTOR	ARRAY	MCF	MCM	YMV	SERIES	
收件日期(Sample Receiving D	ate) :	2011/1	2/09								
測試期間(Testing Period)	:	2011/1	2/09 T	0 2011	1/12/16						

测试结果(Test Results) : 請見下一頁 (Please refer to next pages).



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非只有說明,此報告結果僅對調試的樣品負責。本幫告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms\_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台商捐發科技股份有限公司 Chemical-Talpei 33 WuChyuan Road, Wuku Industrial Zone, New Talpei City, Talwan /新北市五殿工業區正權路33號 + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com



# 測試報告 Test Report <sup>號碼(No.)</sup>: CE/2011/C1821 日期(Date): 2011/12/16 頁数(Page): 2 of 12

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

(東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO., LTD.)

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

桃園縣楊梅市幼獅工業區幼四路1之1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN, TAIWAN, R. O. C.)

(廣東省東莞市黃江鎮黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG)

(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)

### <u>測試結果(Test Results)</u>

测试部位(PART NAME)No.1 : 整體混測(10款)(MIXED ALL PARTS (10 KINDS))

測試項目 (Test Items)			方法偵測 極限値 (MDL)	結果 (Result) No.1	
编 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法,以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3540C: 1996方法,以液相層析 /質譜儀檢測全氣辛烷磺酸含量. / With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.	
全氟辛酸(銨)/ PFOA (CAS No.: 335-67-1)	mg/kg	參考US EPA 3540C: 1996方法,以液相層析 /質譜儀檢測全氟辛酸(銨)含量. / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company, 除非另有說明,此報告結果僅對調試的採品負責。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms\_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising at their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台周镜驗科技股份有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipel City, Taiwan /新北市五殿工業師五權略当號 + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com



# 測試報告 Test Report <sup>號碼(No.)</sup>: CE/2011/C1821 日期(Date): 2011/12/16 頁數(Page): 3 of 12

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

(東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO., LTD.)

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

桃園縣楊梅市幼獅工業區幼四路1之1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN, TAIWAN, R. O. C.)

(廣東省東莞市黃江鎮黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG)

(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)

測試項目	單位	測試方法	方法偵測 極限値	結果 (Result)	
(Test Items)	(Unit)	(Method)	(MDL)	No.1	
六溴環十二烷 / Hexabromocyclododecane(HBCDD) (CAS No.: 25637-99-4)	mg/kg	参考US EPA 3540C方法,以氣相層析/質譜 儀檢測. / With reference to US EPA 3540C method. Analysis was performed	5	n.d.	
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	by GC/MS. 參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761-40-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553-12-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No.: 117- 84-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
鄰苯二甲酸二丁酯 / DBP(Dibutyl phthalate)(CAS No.: 84-74-2)	%	参考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	

In socument is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and, for electronic formal documents, subject to terms and Conditions for Electronic Documents at www.sgs.com/terms\_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulliest extent of the taw.

合時檢驗科技股份有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipel City, Taiwan / 新北市五股工業區 五欄協 科裁 + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果做對潮試的樣品負責。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and,



### 測試報告 Test Report <sup>號碼(No.)</sup>: CE/2011/C1821 日期(Date): 2011/12/16 頁數(Page): 4 of 12

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

(東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO., LTD.)

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

桃園縣楊梅市幼獅工業區幼四路1之1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN, TAIWAN, R. O. C.)

(廣東省東莞市黃江鎭黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG)

(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)

測試項目 (Test Items)	單位	測試方法	方法偵測 極限値	結果 (Result)
(lest items)	(Unit)	(Method)	(MDL)	No.1
多溴聯苯總和 / Sum of PBBs				n.d.
一溴聯苯 / Monobromobiphenyl	]		5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.
七溴聯苯 / Heptabromobiphenyl		-	5	n.d.
入溴聯苯 / Octabromobiphenyl		參考IEC 62321: 2008方法, 以氣相層析儀/ 質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		u_	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
入溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	·n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果做對測試的採品負責。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and, for electronic format documents, subject to Terms and Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_edocuments, subject to Terms and Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_edocuments, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms\_e-document.htm, Attention is drawn to the limitation of liability, indemnification and jurisdiction Issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its Intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

合溶檢驗科技股份有限公司 {Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipei City, Taiwan /所北市五股工業區五權路-35號 + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com

Member of the SGS Group (SGS SA)



### 測試報告 Test Report<sup> 號碼(No.): CE/2011/C1821</sup> 日期(Date): 2011/12/16 頁数(Page): 5 of 12

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

(東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO., LTD.)

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

桃園縣楊梅市幼獅工業區幼四路1之1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN, TAIWAN, R. O. C.)

(廣東省東莞市黄江鎮黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG)

(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)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	
鹵素 / Halogen					
鹵素 (氯) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)			50	n.d.	
鹵素(氯)/ Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	<i>(</i> ,	參考BS EN 14582:2007, 以離子層析儀分 析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n.d.	
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.	

#### 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 (無規格値)
- 5. 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.)

Unless otherwise stated the results shown in this test report refer only to the sample(s) lested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 脉非另有說明,此報告結果做對測試的樣品負責。本報告未經本公司書面許可,不可部扮複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms\_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their fights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipel City, Taiwan /新北市五殿工業幅正確塔均衡+886 (02)2299 3279 f+886 (02)2299 3237 www.sgs.com



# 測試報告 Test Report <sup>號碼(No.)</sup>: CE/2011/C1821 日期(Date): 2011/12/16 頁数(Page): 6 of 12

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

(東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO., LTD.)

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

桃園縣楊梅市幼獅工業區幼四路1之1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN, TAIWAN, R. O. C.)

(廣東省東莞市黃江鎮黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG)

(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)

#### PFOS參考資訊(Reference Information):指令 2006/122/EC (Directive 2006/122/EC)

- (1) 該物質不可置於市場上或使用於特殊物質或配置成分重量濃度等於或大於0.005%.
   (May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005% by mass.)
- (2) 該物質不可置於市場上的半成品或商品或其物件; 假若零件上明顯地具有PFOS並參照結構上及微細構造上計 算PFOS重量濃度等於或大於0.1%, 而紡織品或其他覆蓋物質, 如果PFOS在覆蓋物質中含量等於或大於1µg/m<sup>2</sup>.

(May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1% by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m<sup>2</sup> of the coated material.)

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非分有說明, 此報告結果僅對測試的條品負責。本報告未經奉公司書面許可, 不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and,

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms\_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

合詞領錄科技段份有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipei City, Talwan /新北市五般工業區五箱路均衡 + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com



### 測試報告 Test Report<sup>號碼(No.)</sup>: CE/2011/C1821 日期(Date): 2011/12/16 頁數(Page): 7 of 12

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

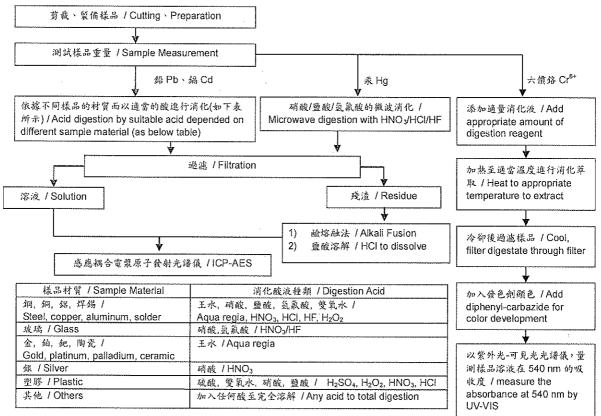
桃園縣楊梅市幼獅工業區幼四路1之1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN, TAIWAN, R. O. C.)

(廣東省東莞市黃江鎮黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG)

(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)

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. (Cr<sup>6+</sup> test method excluded)
- 2) 测试人员;楊登律 / Name of the person who made measurement: Climbgreat Yang
- 3) 测试負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Unless otherwise stated the results shown in this test report refer only to the sample(s) lested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 陈非另有說明,此報告結果做創識的條品負責。本綱告末經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and,

This document is issued by the Company subject to its General Conditions of Service printed overlear, available of reduction for accessible at www.sgs.com/terms\_and\_conditions.htm and for electronic Documents, at www.sgs.com/terms\_and\_conditions.htm and is for electronic Documents, at www.sgs.com/terms\_and\_conditions.htm and its for electronic Documents, at www.sgs.com/terms\_end\_conditions.htm and of itability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, it any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技服的有限公司 {Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipei City, Taiwan / 浙北市五极工業區五備路,玛嶺 + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com



### 測試報告 Test Report<sup>號碼(No.)</sup>: CE/2011/C1821 日期(Date): 2011/12/16 頁數(Page): 8 of 12

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

(東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO., LTD.)

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

桃園縣楊梅市幼獅工業區幼四路1之1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN, TAIWAN, R. O. C.)

(廣東省東莞市黃江鎭黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG)

(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)

#### 索式萃取分析流程圖 /

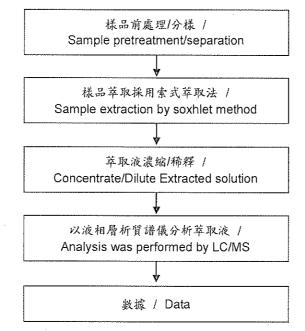
### Analytical flow chart of Soxhlet extraction (LC/MS) procedure

■ 测試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

### 【测試項目:全氟辛烷磺酸/全氟辛酸(銨)、苯並三唑類化合物/

Test Items: PFOS/PFOA · Benzotriazole ]



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有設明,此戒告結果僅對調試的樣品負責。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and,

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and, for electronic formal documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms\_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

合詞檢驗科技服紛有限公司 [Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipei City, Taiwan /所北市五酸工業顯正權略/4號 + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com



# 測試報告 Test Report<sup>號碼(No.)</sup>: CE/2011/C1821 日期(Date): 2011/12/16 頁數(Page): 9 of 12

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

(東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO., LTD.)

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

桃園縣楊梅市幼獅工業區幼四路1之1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN, TAIWAN, R. O. C.)

(廣東省東莞市黃江鎮黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG)

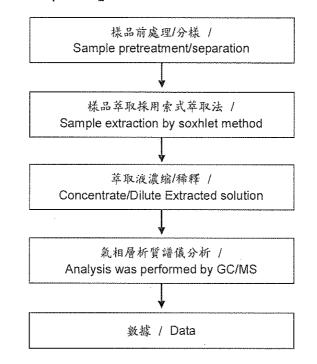
(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

#### 索式萃取分析流程圖 / Analytical flow chart of Soxhlet extraction (GC/MS) procedure

■ 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

■ 测試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

【測試項目:可塑劑、苯並三唑類化合物、六溴環十二烷、壬酚、單甲基二溴二苯基甲烷、 有機磷化合物 / Test Items: Phthalate、Benzotriazole、HBCDD、NP、DBBT、Organic phosphorus compounds】



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 陈非另有說明,此報告結果鑑對測試的樣品負責。本報告未經本公司書簡許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms\_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excertate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣橫戰科技股份有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipel City, Talwan /所北市五股工業區五橋除均墩 + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com



### 測試報告 Test Report <sup>號碼(No.)</sup>: CE/2011/C1821 日期(Date): 2011/12/16 頁數(Page): 10 of 12

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

(東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO., LTD.)

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

桃園縣楊梅市幼獅工業區幼四路1之1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN, TAIWAN, R. O. C.)

(廣東省東莞市黄江鎮黄牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG)

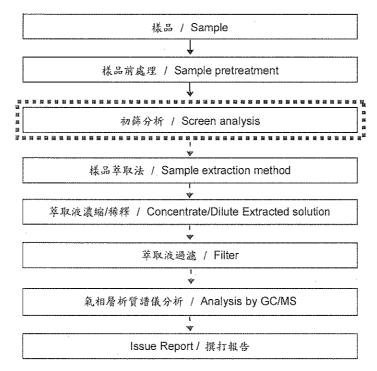
(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

#### 分析流程圖 / Analytical flow chart

■ 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

■ 测試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

【测試項目(Test Items): 多溴聯苯/多溴聯苯醚、四溴雙酚-A-雙 / PBB/PBDE, TBBP-A-bis】



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,比眾告結果僅斟測試的樣品負責。本藝告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleat, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and, for electronic format documents, subject to Terms and Conditions of Service printed overleat, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms\_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be proseculed to the fullest extent of the law.

台灣機驗科技股份有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipei City, Taiwan /新北市五酸工業職五船路均漿 + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com



# 測試報告 Test Report <sup>號碼(No.): CE/2011/C1821</sup> 日期(Date): 2011/12/16 頁数(Page): 11 of 12

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

(東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO., LTD.)

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

桃園縣楊梅市幼獅工業區幼四路1之1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN, TAIWAN, R. O. C.)

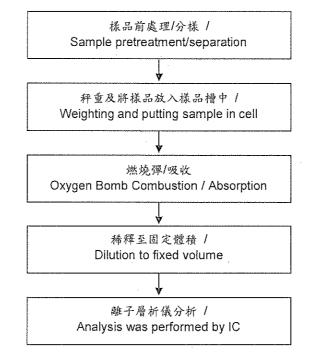
(廣東省東莞市黃江鎮黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG)

(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)

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

1) 測試人員:陳恩臻 / Name of the person who made measurement: Rita Chen

2) 测試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此我告結果做點測試的提品負責。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and,

Inis document is issued by the Company subject to its General Conditions of Service printed overlear, available on request of accessible at www.sgs.com/tems\_and\_conditions.inti and/ for electronic format documents, subject to its General Conditions of Telectronic Documents at www.sgs.com/tems\_edocument.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the lime of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

合溶频吸科技股份有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipei City, Talwan 御北市五酸工業區五槽將34號 + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com



### 測試報告 Test Report<sup>姚碼(No.)</sup>: CE/2011/C1821 日期(Date): 2011/12/16 頁数(Page): 12 of 12

西北臺慶科枝股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO., LTD.)

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

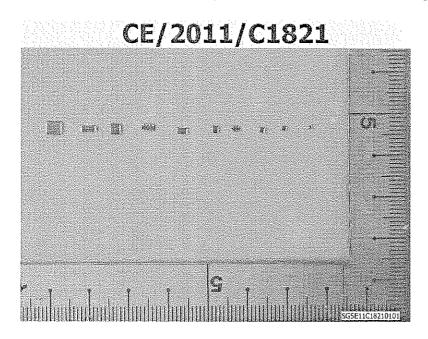
桃園縣楊梅市幼狮工業區幼四路1之1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN, TAIWAN, R. O. C.)

(廣東省東莞市黃江鎮黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG)

(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)

#### \* 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.)



\*\* 報告結尾 (End of Report) \*\*

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company, 除非另有說明, 此我告結果僅對調試的標品資資。本報告未經本公司書面許可, 不可部份複製。 This document is Issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms\_and\_conditions.htm and,

This document is issued by the Company subject to its General contains or service printed overlear, available on request or accessible at www.sgs.comments\_ana\_containeds.nm liability, for electronic formal documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms\_edocument.htm liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its Intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is uniawful and offenders may be prosecuted to the fullest extent of the law.

台灣模騙科技服衍有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipei City, Talwan /新北市石眼工業睡五欄路 34號 + 886 (02)2299 3279 1+ 886 (02)2299 3237 www.sgs.com