

Specification		pprov	al
	<u>2012/12/25</u> 天河		
TAI-TECH P/N: HPC3	012A-SERIES		
CUSTOMER P/N:			
DESCRIPTION:			
QUANTITY:	pcs		
REMARK:			
Customer A	pproval Feedback		
	 技股份有限公 ed Electronics Co.,		
■ 西北臺慶科技股份有限公司 TAI-TECH Advanced Electronics Co., Ltd <u>Headquarter:</u> No.1 YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI,	Sales Dep.		
TAO-YUAN HSIEN, TAIWAN, R.O.C. TEL: +886-3-4641148 FAX: +886-3-4643565 http://www.tai-tech.com.tw	APPROVED	CHECKED	
E-mail: sales@tai-tech.com.tw 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 TEL: +86-769-3365488 FAX: +86-769-3366896 E-mail: sales@tai-tech.net	管哲頎 Eric Kuan	曾詩涵 Angela Tseng	
<u>Office:</u> 金亨國際有限公司 KAMHENG INTERNATIONAL LIMITED	R&D Center		
TEL: +86-852-25772033 FAX: +86-852-28817778 □ 臺慶精密電子(昆山)有限公司 TAI-TECH ADVANCED ELECTRONICS(KUNSHAN) CO., LTD	APPROVED	CHECKED	
SHINWHA ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA TEL: +86-512-57619396 FAX: +86-512-57619688 E-mail: sales@tai-tech.cn	楊祥忠 Mikey Yang	詹偉特 Jack Chan	林宜蕰 Beryl Lin
<u>Office:</u> 北欣國際有限公司 NORTH STAR INTERNATIONAL LIMITED TEL: +86-512-57619396 FAX: +86-512-57619688	L		

Power Inductor

HPC3012A-SERIES

	ECN HISTORY LIST									
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN					
1.0	12/12/25	新發行	楊祥忠	詹偉特	林宜蕰					
備										
詿										

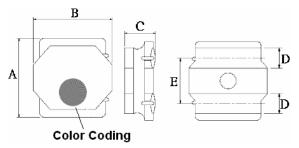
Power Inductor

HPC3012A-SERIES

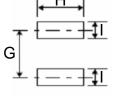
1. Features

- 1. This specification applies Low Profile Power Inductors.
- 2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

2. Dimension









Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	G(mm)	H(mm)	l(mm)
HPC3012A	3.0±0.1	3.0±0.1	1.2 max.	0.9±0.2	1.9±0.2	2.2 ref.	2.7 ref.	0.8 ref.
								Units: mm

3. Part Numbering

HPC	3012	Α	-	2R2	Μ
А	В	С		D	Е
A: Series					
B: Dimension					
C: Control S/N					
D: Inductance		2R2=	=2.2u⊦	1	
E: Inductance To	olerance	M=±	20%;	Y=±30%	

4. Specification

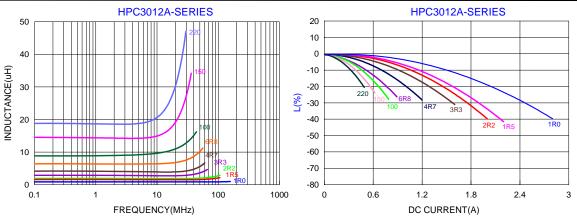
TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz) min.	DCR (Ω) ±20%	l sat (A)	l rms (A)	Color Coding
HPC3012A-1R0Y	1.0	±30%	1V100K	111	0.048	2.20	1.71	Silver
HPC3012A-1R5Y	1.5	±30%	1V100K	95	0.055	1.70	1.60	Silver
HPC3012A-2R2M	2.2	±20%	1V100K	78	0.075	1.50	1.37	Silver
HPC3012A-3R3M	3.3	±20%	1V100K	61	0.100	1.20	1.21	Silver
HPC3012A-4R7M	4.7	±20%	1V100K	50	0.130	1.00	1.06	Silver
HPC3012A-6R8M	6.8	±20%	1V100K	43	0.190	0.85	0.89	Silver
HPC3012A-100M	10	±20%	1V100K	32	0.270	0.73	0.72	Silver
HPC3012A-150M	15	±20%	1V100K	26	0.450	0.53	0.57	Silver
HPC3012A-220M	22	±20%	1V100K	22	0.630	0.50	0.50	Silver

Note:

Isat : Based on inductance change $(\triangle L/L0 : \leq -30\%)$ @ ambient temp. 25°C

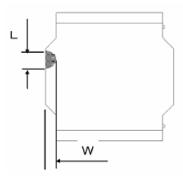
Irms : Based on temperature rise $(\triangle T : 40^{\circ}C \text{ typ.})$

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Core chipping

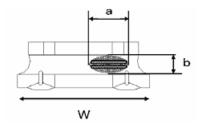
The appearance standard of the chipping size on top side, and bottom side ferrite core is listed below.



Туре	L	w
HPC3012A	0.6mm Max.	0.6mm Max.

Void appearance tolerance Limit

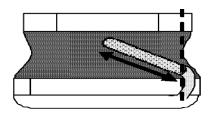
Size of voids occurring to coating resin is specified below.



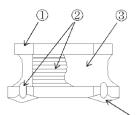
Exposed wire tolerance limit of coating resin part on product side. Size of exposed wire occurring to coating resin is specified below. 1. Width direction (dimension a): Acceptable when $a \le w/2$

- Width direction (dimension a): Acceptable when a \leq w/2 Nonconforming when a > w/2
- 2. Length direction (dimension b): Dimension b is not specified.
- The total area of exposed wire occurring to each sides is not greater than 50% of coating resin area, and is acceptable.

External appearance criterion for exposed wire Exposed end of the winding wire at the secondary side should be 2mm and below.



5. Material List



No.	Item	Material
1	Core	Ni-Zn ferrite
2	Wire	Copper Wire
3	Coating	Ероху
4	Solder	Lead free

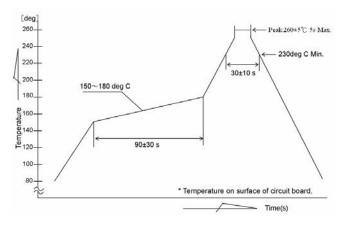
6. Reliability and Test Condition

Item	Performance	Test Condition			
Operating Temperature	- 25 ~ +120℃.	Including self-generated heat			
Storage Temperature	- 40 ~ +85℃. - 5 to 40℃ for the product with taping.				
Rated current					
Inductance (L)	Within the specified tolerance	LCR Meter: HP 4285A or equivalent, 100kHz, 1V			
DC Resistance		DC Ohmmeter: HIOKI3227 or equivalent			
Temperature characteristics	Inductance change:Within±20%	Measurement of inductance shall be taken at temperature rang within -25° to $+85^{\circ}$ C. With reference to inductance value at+20 °C, change rate shall be calculated. Measurement of inductance shall be taken at temperature rang within -40° C to $+125^{\circ}$ C. With reference to inductance value at+20 °C, change rate shall be calculated.			
Resistance to flexure substrate	No damage.	The test samples shall be soldered to the testing board by the reflow. As illustrated below, apply force in the direction of the arrow indicating until deflection of the test board reaches to 2mm. Proved Test test test Substrate size : 100x40x1.0 Substrate material : glass epoxy-resin Solder cream thickness : 0.10 0.8 1.4 0.8			
Adhesion of Terminal electrode	Shall not come off PC board.	The test samples shall be soldered to the testing board and by the reflow. 10 N, 5 s Applied force : 10 N to X and Y directions. Duration : 5s Solder cream thickness : 0.10			
Resistance to Vibration	Inductance change : Within±10% No abnormality observed in appearance.	The test samples shall be soldered to the test board by the reflow. Then it shall be submitted to below test conditions. Frequency: 10-55Hz Total Amplitude: 1.5mm (May not exceed acceleration 196m/S2) Sweeping Method:10Hz to 55Hz to 10Hz for 1min. Time : 2 hours each in X,Y, and Z Direction. Recovery: At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs.			
Solderability	At least 90% of surface of terminal electrode is covered by new solder.	The test samples shall be dipped in flux, and then immersed in molten solder as shown in below. Flux : methanol solution containing rosin 25% Solder temperature: $245\pm5^{\circ}$ C Time: 5 ± 1.0 sec. Immersion depth: All sides of mounting terminal shall be immersed.			
Resistance to soldering	Inductance change:Within±10% No abnormality observed in appearance.	The test sample shall be exposed to reflow oven at $230\pm5^{\circ}$ C for 40 seconds, with peak temperature at $260\pm5^{\circ}$ C for 5 seconds,2 times. Test board thickness: 1.0mm Test board material: glass epoxy-resin			

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Item	Performance	Test Condition				
		The test samples shall be soldered to the test board by the reflow. The test samples shall be placed at specified temperature for specified time by step 1 to step 4 as shown below in sequence. The temperature cycles shall be repeated 100 cycles.				
Thermal shock		Phase	Temperature("근)	Time(min.)		
		1	-40±3℃	30±3		
		2	RoomTemp	Within 3		
		З	85±2℃	30±3		
		4	RoomTemp	Within 3		
Damp heat life test		soldered to th The test samp	·95%RH	ow. hermostatic over	n set at	
Loading under damp heat life test	Inductance change : Within±10% No abnormality observed in appearance.	The test samples shall be soldered to the test board by the reflow. The test samples shall be placed in thermostatic oven set at specified temperature and humidity and applied the rated current continuously as shown in below. Temperature: 60±2°C Humidity: 90–95%RH Applied current: Rated current Time: 500+24/-0 hrs				
Low temperature life test		reflow.	-40±2℃			
Loading at high temperature life test		reflow. Temperature:	nt: Rated current	o the test board b	by the	

7. Soldering

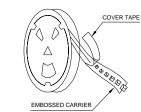


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8. Packaging Information

.0±0.

(1) Reel Dimension



Туре	A(mm)	B(mm)	C(mm)	D(mm)	
HPC3012A	10±1.5	60±1.0	13±0.5	180±0.5	

А

с

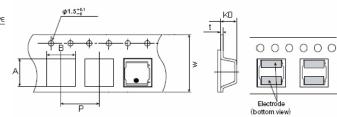
(3) Packaging Quantity

Туре	Chip / Reel
HPC3012A	2000

Application Notice

- Storage Conditions
 - To maintain the solderability 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 $^\circ\!{\rm C}$ $\,$ and 60% RH.
- 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.
- Transportation
- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- The use of tweezers or vacuum pick up is strongly recommended for individual components.
 Bulk handling should ensure that abrasion and mechanical shock are minimized.

(2) Tape Dimension



Туре	A(mm)	B(mm)	Ko(mm)	P(mm)	W(mm)	t(mm)
HPC3012A	3.2±0.1	3.2±0.1	1.6±0.1	4.0±0.1	8.0±0.2	0.30±0.05

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測試報告 Test Report

號碼(No.): CE/2012/24506 日期(Date): 2012/02/29 頁數(Page): 1 of 7

西北臺慶科技服份有限公司 / 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, 旦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 Description)	:	TLP, HPC, TLPC, SPC, TLPH, SPI SERIES	
樣品型號(Style/Item No.)	:	TLP, HPC, TLPC, SPC, TLPH, SPI SERIES	
收件日期(Sample Receiving Date)	:	2012/02/21	
測試期間(Testing Period)	:	2012/02/21 TO 2012/02/29	

测试结果(Test Results)

: 請見下一頁 (Please refer to next pages).

Chenyu Kuna / Operátion Manage Signed for and on Nehalfa SGS TAIWAN LTD. Chemical Laboratory - Taipei

5/55 [awan120] 33, Wu Chuan fid, New Taipei ladustrial Park, New Taipei City, Taiwan / 新北市新北连美国最五都的33號 台灣接触科技版份 何約公司 1+886 (02)2299 3279 (+86 (02)2299 3237 www.sgs.tw

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测试报告

號碼(No.): CE/2012/24506 日期(Date): 2012/02/29 頁數(Page): 2 of 7

Test Report

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(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)

测试结果(Test_Results)

测试部位(PART NAME) No.1 : 整體混測 (6款) (MIXED ALL PARTS (6 KINDS))

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
鎬 / 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.
部/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.
鹵素 / Halogen				
鹵素(氯)/ Halogen-Fluorine(F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層 析儀分析. / With reference to	50	n.d.
函素(氣) / Halogen-Chlorine(Cl) (CAS No.: 22537-15-1)			50	n.d.
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)		BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
			50	n.d.



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號碼(No.) : CE/2012/24506 日期(Date) : 2012/02/29 頁數(Page) : 3 of 7

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

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
多溴聯苯總和 / Sum of PBBs		يكين	-	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.
二溴聯苯 / Dibromobiphenyl		參考IEC 62321: 2008方法,以氣 相層祈儀/質譜儀檢測./With	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			5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mgyrg	reference to IEC 62321: 2008	-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether		and performed by GC/MS.	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	L		5	n.d.

儲註(Note):

1. mg/kg = ppm; 0.1wt% = 1000ppm

2. n.d. = Not Detected (未检出)

3. MDL = Method Detection Limit (方法偵測極限值)

4. "-" = Not Regulated (無規格值)

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别單一材質的含量. (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.际用时间的。 此後行動用的公理品目的。 不可能分散数。 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_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_and_conditions/Terms-enDocument. Attention is drawn to the imitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indings at the tervention 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.

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號碼(No.): CE/2012/24506 日期(Date): 2012/02/29 頁數(Page): 4 of 7

Test Report

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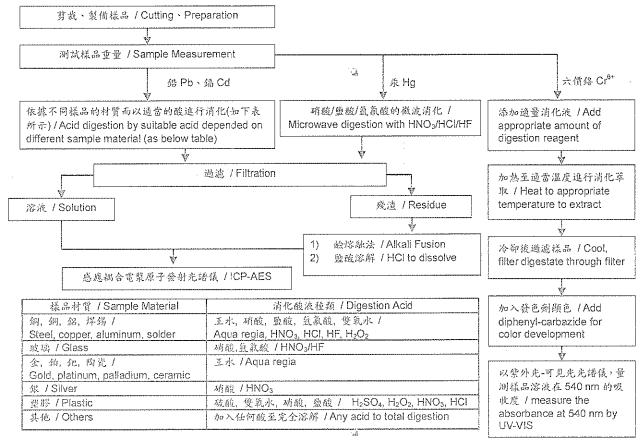
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(臺廣精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO., LTD.)

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- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價絡測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 测試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang 2)
- 3) 测试真责人: 張啓興 / Name of the person in charge of measurement: Troy Chang



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测试報告 Test Report

號碼(No.): CE/2012/24506 日期(Date): 2012/02/29 頁數(Page): 5 of 7

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

(東莞臺廣精密電子有限公司 / 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) (江蘇省昆山市筵朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, ĊHINA)

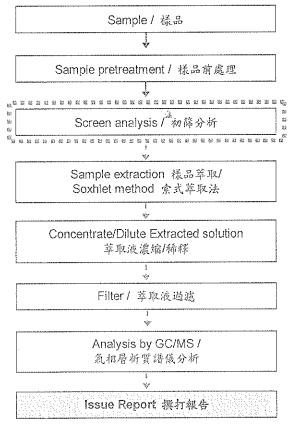
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

鬣 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 闅

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

確認程序 / Confirmation process **** *



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號碼(No.): CE/2012/24506 日期(Date): 2012/02/29 頁數(Page): 6 of 7

1.5

Test Report

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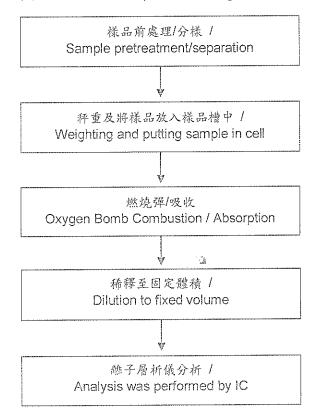
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鹵素分析流程圖 / Analytical flow chart of halogen content

圖 测试人员:陳恩臻 / Name of the person who made measurement: Rita Chen

圖 测试真责人:張啓興 / Name of the person in charge of measurement: Troy Chang



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號碼(No.) : CE/2012/24506 日期(Date) : 2012/02/29 頁數(Page) : 7 of 7

13

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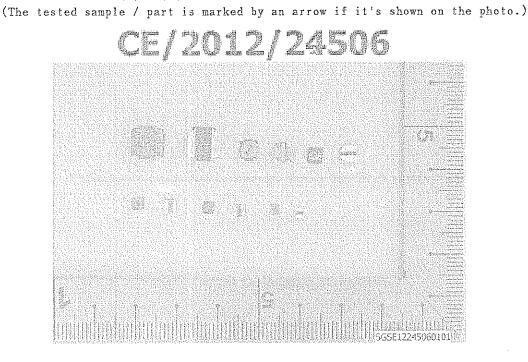
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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. *



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