

寶 號
CUSTOMER

MARITEX

HF
ROHS
COMPLIANT

承 認 書

SPECIFICATION FOR APPROVAL

品名
PRODUCT NAME

K5B FS 33.5x6.5x8-1.3

客戶料號
CUSTOMER PART NO.

批號
SAMPLE
NO.

日期
DATE.

2013/8/5, 2016/03/31 update

Customer Approved Status 客戶承認範圍

FULLY APPROVED (全部承認)	PARTILLY APPROVED (部份承認)	REVISE APPROVED (修訂承認)
Drawn by	Checked by	Approved by
鍾佩宜	吳明珠	吳炳勳



KING CORE ELECTRONICS INC.

NO 269, Nanfong Rd., Pingjhen City, Taoyuan County Taiwan

Tel: 886-3-4698855 Fax: 886-4691395

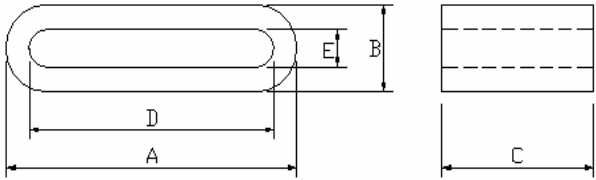
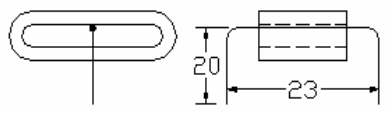
Website: [http:// www.kingcore.com. tw](http://www.kingcore.com.tw)

E-mail: [kc@mail.kingcore.com. tw](mailto:kc@mail.kingcore.com.tw)

修訂履歷 REVISION RESUME

日期 DATE	版次 VERSION	修訂目的 PURPOSE	修訂內容概述 REVISION DESCRIPTION	備註 REMARK
2013/08/05	A	首次送樣 INITIAL RELEASE		
2016/03/31	A	SGS 過期	SGS 更新	
製作 DRAWN BY: <div style="text-align: center;">陳雙欣</div>		確認 CHECKED BY: <div style="text-align: center;">吳明珠</div>		承認 APPROVED BY: <div style="text-align: center;">吳炳勳</div>

SPECIFICATION FOR APPROVAL

CUSTOMER:	MARITEX	CUST.P/N:	
ORDERING CODE:	K5B FS 33.5x6.5x8-1.3	K.C.P/N:	PL3301IA
(1) SHAPE :		A	33.5±1.0 mm
		B	6.5±0.5 mm
		C	8.0±0.3 mm
		D	27.0±0.7 mm
		E	1.3+0.5(-0.3) mm
		F	mm
		G	mm
(2)ELECTRICAL REQUIREMENTS:	Z ₁ =	15 min OHM	AT 25 MHz
	Z ₂ =	35 min OHM	AT 100 MHz
(3) TEST CONDITIONS:	1 IMPEDANCE ANALYZER: E4991A		
	TEST FIXTURE: HP16092A		
	2.WIRE: Φ0.65 T.C.Wx63mm x 1/2Ts		
	3.DRAWING:		
			
(4)PACKING	<input type="checkbox"/> IN BULK	<input checked="" type="checkbox"/> VACUUM	<input type="checkbox"/> INSERTION
	PCS/BAGS*	BAG/INNER BOX*	BOXES/CARTON = PCS
	136 PCS/PLATE* 12	PLATES/CARTON= 1632	PCS
	PCS/TRAY*	TRAYS/CARTON=	PCS
(6)REMARK:	(5) APPEARANCE		
	(1)AREA OF BREAK : <1 mm ²		
	(2)SUM OF BREAKING AREA : <2 mm ²		
	(3)DEPTH OF BREAK : <0.8 mm		
	Approved by <i>吴炳勳</i>		
Checked by <i>吴明珠</i>			
Drawn by <i>鍾佩宜</i> 2013/8/5			
DWG.NO. 20138007A			

TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER	MARITEX			CUST. P/N		
ORDERING CODE	<i>K5B FS 33.5x6.5x8-1.3</i>			K.C. P/N	<i>PL3301IA</i>	
TEMP.	<i>24 °C</i>	RH	<i>69 %</i>	DWG.NO.	<i>20131002A</i>	
WIRE	<i>0.65x63mm T.C.W</i>	WINDING	<i>1/2 Ts</i>	Q'TY	<i>5PCS</i>	
Test Instruments						
Meas. Item.	<i>Z (OHM)</i>	<i>Z (OHM)</i>	<i>A mm</i>	<i>B mm</i>	<i>C mm</i>	<i>D mm</i>
Specification	<i>15 min</i>	<i>35 min</i>	<i>33.5±1.0</i>	<i>6.5±0.5</i>	<i>8.0±0.3</i>	<i>27.0±0.7</i>
Test Freq.	<i>25 MHz</i>	<i>100 MHz</i>				
sample#1	<i>21</i>	<i>48</i>	<i>33.45</i>	<i>6.28</i>	<i>8.07</i>	<i>27.03</i>
sample#2	<i>21</i>	<i>48</i>	<i>33.45</i>	<i>6.27</i>	<i>8.02</i>	<i>27.00</i>
sample#3	<i>21</i>	<i>48</i>	<i>33.39</i>	<i>6.26</i>	<i>7.99</i>	<i>26.99</i>
sample#4	<i>20</i>	<i>47</i>	<i>33.39</i>	<i>6.27</i>	<i>8.09</i>	<i>27.05</i>
sample#5	<i>20</i>	<i>47</i>	<i>33.38</i>	<i>6.28</i>	<i>8.13</i>	<i>27.04</i>
sample#6						
sample#7						
sample#8						
sample#9						
sample#10						
\bar{X}	<i>21</i>	<i>48</i>	<i>33.41</i>	<i>6.27</i>	<i>8.06</i>	<i>27.02</i>
R	<i>1</i>	<i>1</i>	<i>0.07</i>	<i>0.02</i>	<i>0.14</i>	<i>0.06</i>
REMARK:				Approved by: <i>吳炳勳</i>		
				Checked by: <i>吳明珠</i>		
				Drawn by: <i>鍾佩宜</i>		

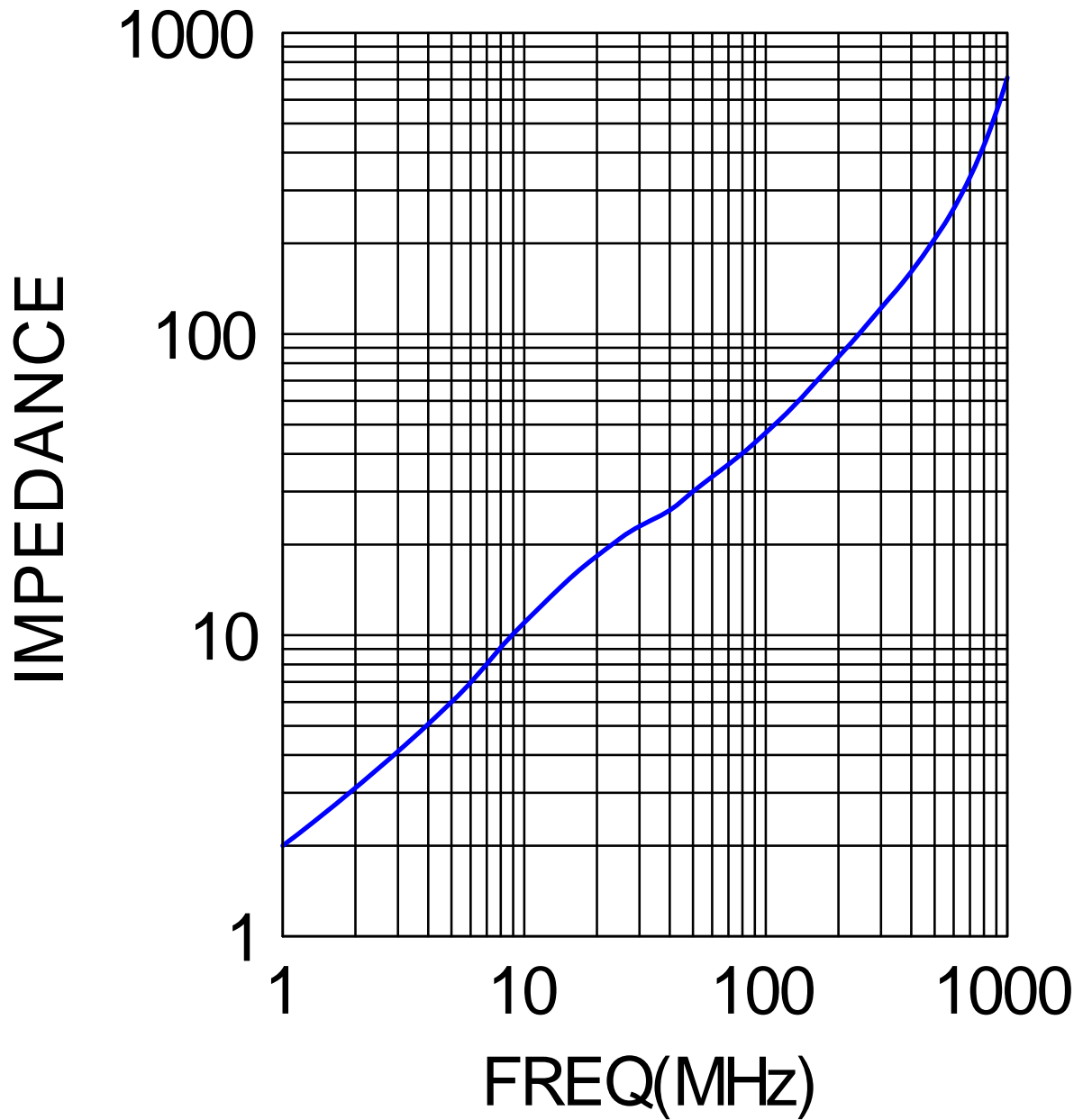
KING CORE ELECTRONICS INC.

TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER	MARITEX			CUST. P/N	
ORDERING CODE	<i>K5B FS 33.5x6.5x8-1.3</i>			K.C. P/N	<i>PL3301IA</i>
TEMP.	<i>24 °C</i>	RH	<i>69 %</i>	DWG.NO.	<i>20131002A</i>
WIRE	<i>0.65x63mm T.C.W</i>	WINDING	<i>1/2 Ts</i>	Q'TY	<i>5PCS</i>
Test Instruments					
Meas. Item.	<i>E mm</i>				
Specification	<i>1.3+0.5(-0.3)</i>				
Test Freq.					
sample#1	<i>1.40</i>				
sample#2	<i>1.40</i>				
sample#3	<i>1.44</i>				
sample#4	<i>1.42</i>				
sample#5	<i>1.45</i>				
sample#6					
sample#7					
sample#8					
sample#9					
sample#10					
\bar{X}	<i>1.42</i>				
R	<i>0.05</i>				
REMARK:				Approved by:	<i>吳炳勳</i>
				Checked by:	<i>吳明珠</i>
				Drawn by:	<i>鍾佩宜</i>

KING CORE ELECTRONICS INC.

K5B FS 33.5x6.5x8-1.3



測試報告

Test Report

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鈞寶電子工業股份有限公司

KING CORE ELECTRONICS INC.

桃園市平鎮區平鎮工業區南豐路269號

NO. 269, NANFONG RD., PINGJHEN DISTRICT, TAOYUAN CITY, TAIWAN



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):

送樣廠商(Sample Submitted By) : 鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)
樣品名稱(Sample Description) : FERRITE CORE
樣品型號(Style/Item No.) : K5B
收件日期(Sample Receiving Date) : 2015/04/14
測試期間(Testing Period) : 2015/04/14 TO 2015/04/16

測試需求(Test Requested) :

- (1) 依據客戶要求，參考RoHS 2011/65/EU Annex II 指令測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚。(As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)
- (2) 其他測試項目請見下一頁。 / Please refer to next pages for the other item(s).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

結論(Conclusion) : (1) 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚的測試結果符合 RoHS 指令 2011/65/EU Annex II 之限值要求 (Based on the performed tests on submitted samples, the test result(s) of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)


Troy Chang, Manager - Tech
Signed for and on Behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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KING CORE ELECTRONICS INC.

桃園市平鎮區平鎮工業區南豐路269號

NO. 269, NANFONG RD., PINGJHEN DISTRICT, TAOYUAN CITY, TAIWAN

測試結果(Test Results)

測試部位(PART NAME)No.1 : FERRITE CORE

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	限值 (Limit)
				No.1	
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
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.	1000
砷 / Arsenic (As)	mg/kg	參考US EPA 3052方法, 以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.	-
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321: 2008方法, 以氣相層 析/質譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.	-

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NO. 269, NANFONG RD., PINGJHEN DISTRICT, TAOYUAN CITY, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	限值 (Limit)
				No.1	
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C: 2007方法, 以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg		10	n.d.	-
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.	1000
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	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.	-	

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測試報告

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NO. 269, NANFONG RD., PINGJHEN DISTRICT, TAOYUAN CITY, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	限值 (Limit)
				No.1	
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測。 / 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。 / 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)	%	參考EN 14372, 以氣相層析/質譜儀檢測。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鹵素 / Halogen					
鹵素 (氟) / 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 BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		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)	mg/kg		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 (無規格值)

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm), 在半成品、成品或零部件中不得超過0.1%(1000ppm), 在紡織品或塗層材料中不得超過1µg/m²。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².)

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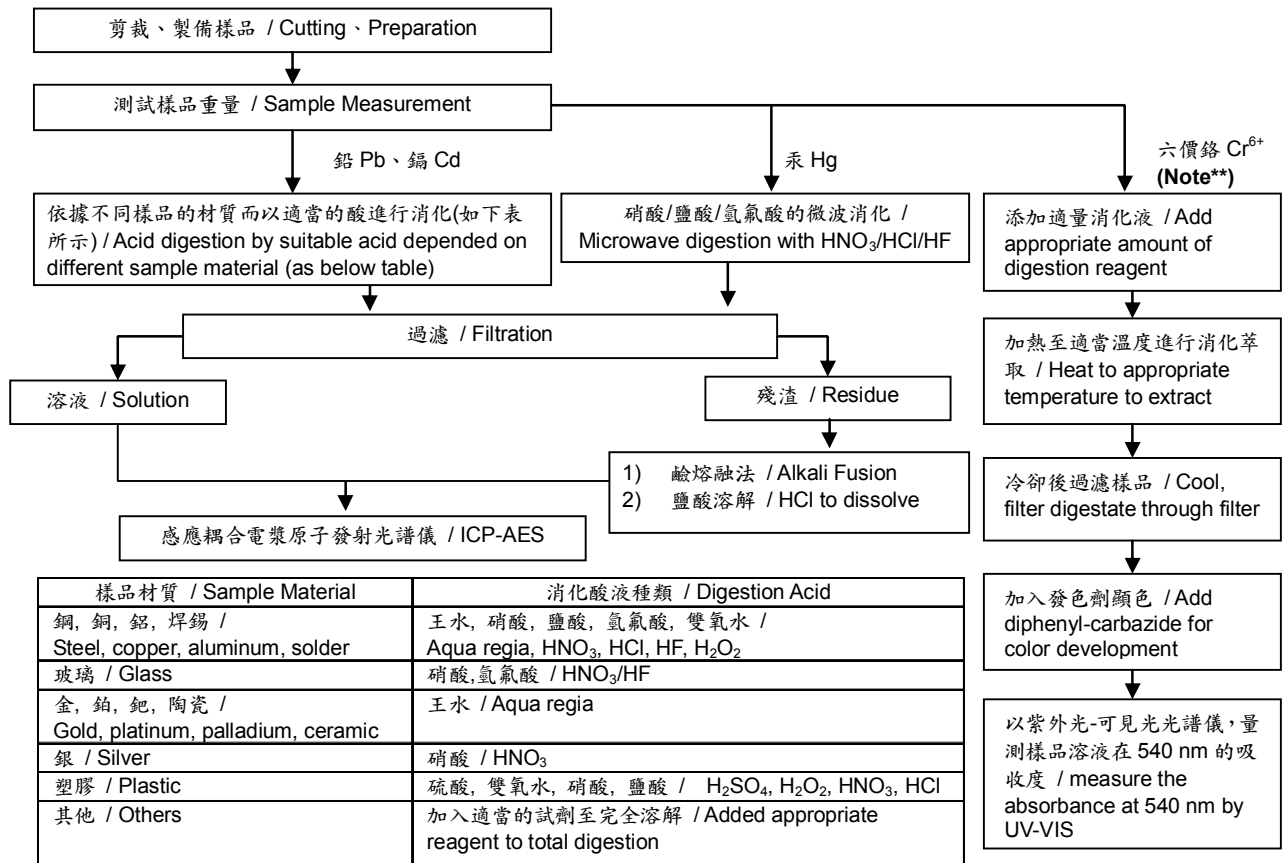
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NO. 269, NANFONG RD., PINGJHEN DISTRICT, TAOYUAN CITY, TAIWAN



- 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. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



Note (For IEC 62321)**

- (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
- (2) 針對金屬材料加入純水，加熱至沸騰萃取。 / For metallic material, add pure water and heat to boiling.

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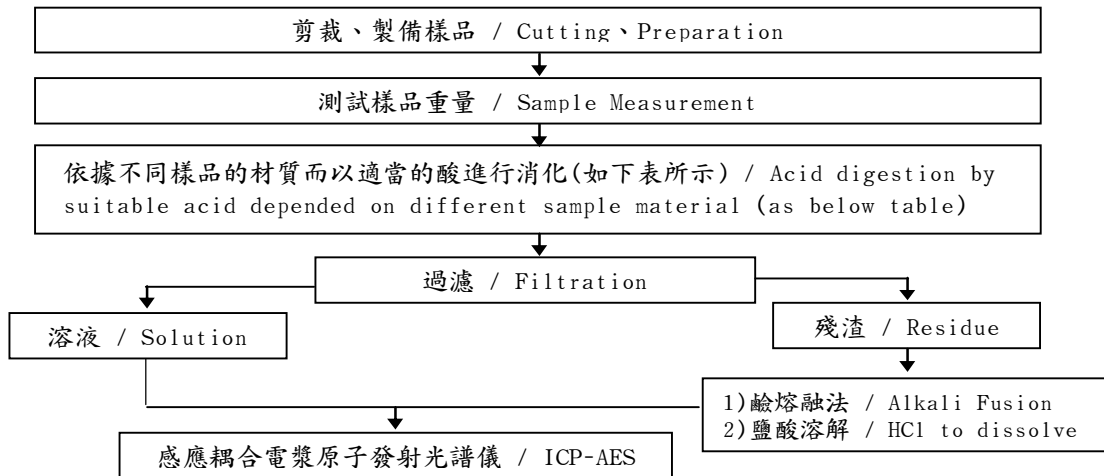
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NO. 269, NANFONG RD., PINGJHEN DISTRICT, TAOYUAN CITY, TAIWAN

- 1) 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.
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸,氫氟酸 / HNO ₃ /HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

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KING CORE ELECTRONICS INC.

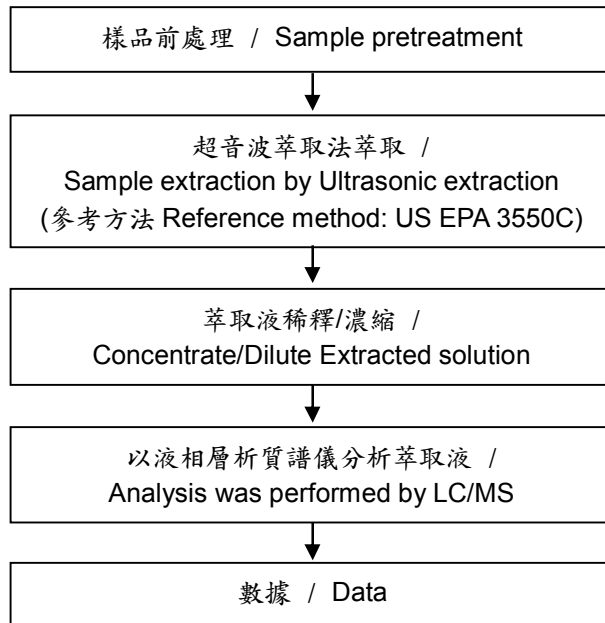
桃園市平鎮區平鎮工業區南豐路269號

NO. 269, NANFONG RD., PINGJHEN DISTRICT, TAOYUAN CITY, TAIWAN



全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員：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



測試報告 Test Report

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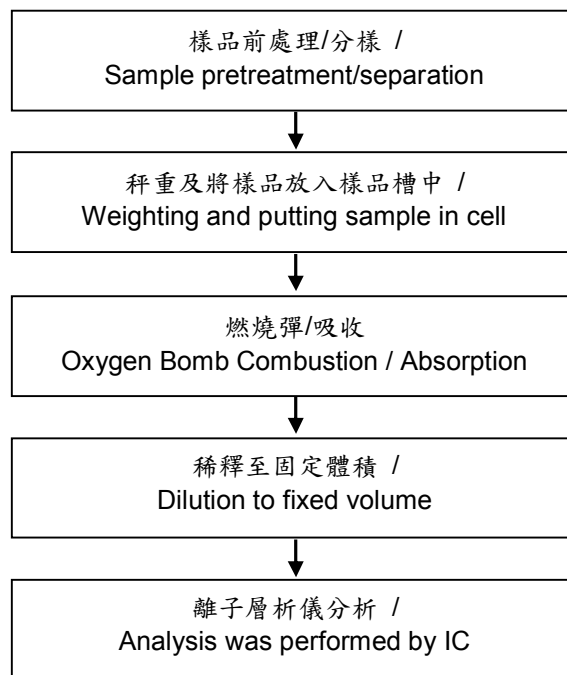
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NO. 269, NANFONG RD., PINGJHEN DISTRICT, TAOYUAN CITY, TAIWAN



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

- 測試人員：陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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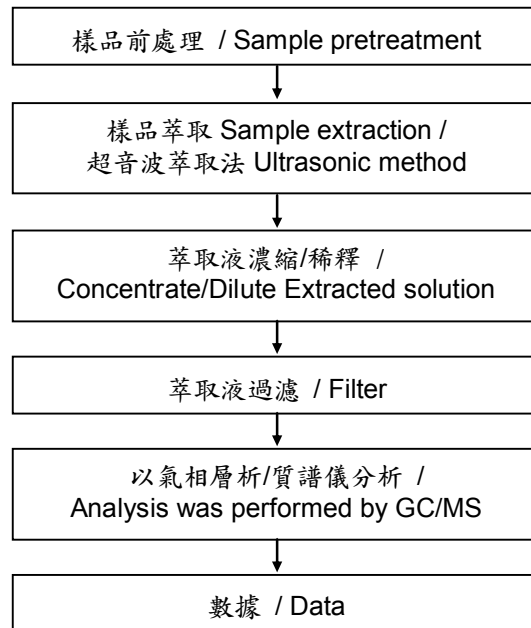
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NO. 269, NANFONG RD., PINGJHEN DISTRICT, TAOYUAN CITY, TAIWAN

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

- 測試人員：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



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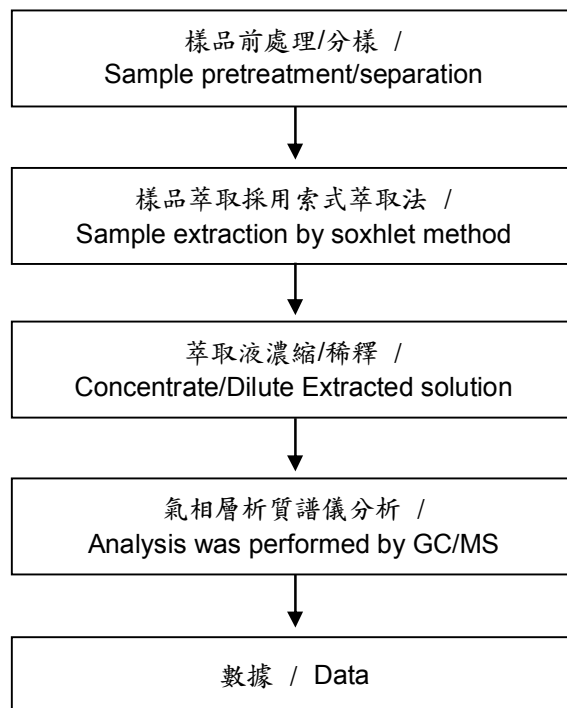
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員：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

【測試方法/Test method: EN 14372】



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

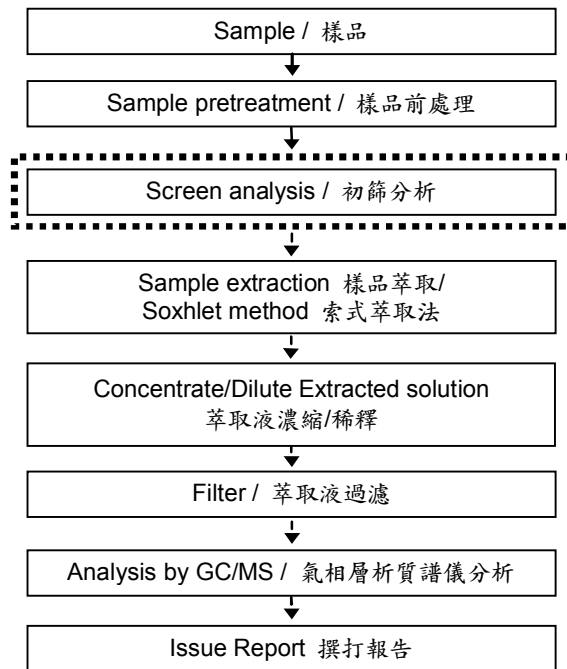
■ 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong

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

初次測試程序 / First testing process —————>

選擇性篩檢程序 / Optional screen process>

確認程序 / Confirmation process - - ->



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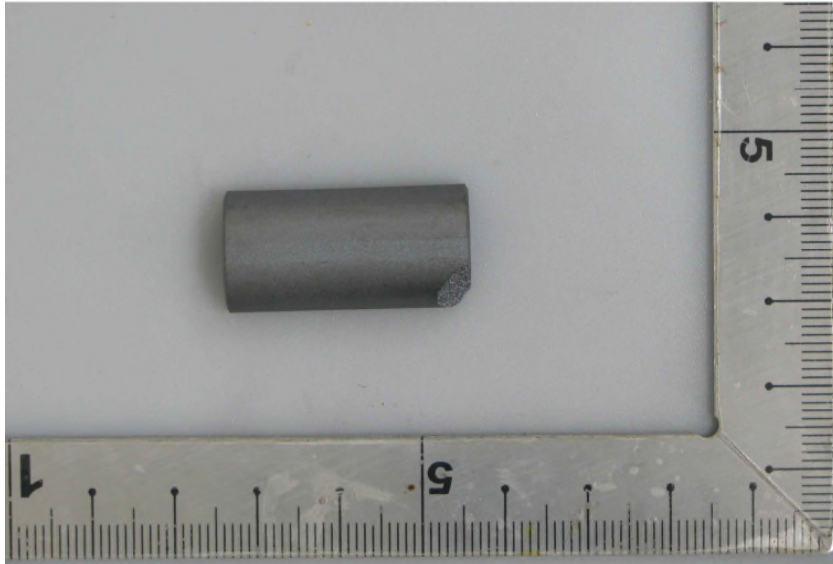
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2015/42544



** 報告結尾 (End of Report) **