

寶 號
CUSTOMER

IVENT

HF
ROHS
COMPLIANT

承 認 書

SPECIFICATION FOR APPROVAL

品名
PRODUCT NAME BS0705CDSU102KA03T

客戶料號 批號
CUSTOMER PART NO. SAMPLE NO.

日期
DATE. 2016/05/11

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
陳雯欣	吳明珠	吳炳勳



KING CORE ELECTRONICS INC.

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製作 DRAWN BY: 陳雯欣	確認 CHECKED BY: 吳明珠	承認 APPROVED BY: 吳炳勳

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
2016/05/11	A	首次送樣 INITIAL RELEASE		
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:	IVENT	CUST.P/N:
ORDERING CODE:	BS0705CDSU102KA03T	K.C.P/N:
<p>(1) SHAPE :</p>		A 7.0±0.3 mm
		B 5.0±0.3 mm
		C 7.8±0.3 mm
		D 2.5Typ mm
<p>(2)ELECTRICAL REQUIREMENTS:</p> <ol style="list-style-type: none"> 1. L: 1000±10%uH(1KHz/0.25V) 2. RDC: 3.9Ω(max) 3. IDC: 0.3A(max) <p style="text-align: center;">Inductance drop= 10% typ at IDC</p>		<p>(3) TEST CONDITIONS:</p> <ol style="list-style-type: none"> 1. L: HP4284A 2. RDC: HIOKI3540 3. IDC: HP4284A+HP42841A
<p>(4)PACKING</p> <p> <input type="checkbox"/> IN BULK <input type="checkbox"/> VACUUM <input type="checkbox"/> INSERTION </p> <p>PCS/BAG* BAGS/INNER BOX BOXES/CARTON = PCS</p> <p>PCS/PLATE* PLATES/CARTON= PCS</p> <p>PCS/TRAY* TRAYS/CARTON= PCS</p> <p>1000 PCS/REEL* REELS/CARTON= PCS</p>		<p>(5) APPEARANCE</p>
<p>(6)REMARK:</p>		Approved by 吴炳勳
		Checked by 吴明珠
		Drawn by 陈雯欣 2016/5/11
		DWG.NO. 20165001A

TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER	IVENT			CUST. P/N	
ORDERING CODE	BS0705CDSU102KA03T			K.C. P/N	
TEMP.	24 °C	RH	69 %	DWG.NO.	20165001A
WIRE		WINDING		Q'TY	5PCS
Test Instruments					
Meas. Item.	L (uH)	RDC(Ω)			
Specification	1000±10%	3.9 max			
Test Freq.	1KHz/0.25V				
sample#1	919	2.65			
sample#2	919	2.63			
sample#3	925	2.62			
sample#4	919	2.63			
sample#5	924	2.65			
sample#6					
sample#7					
sample#8					
sample#9					
sample#10					
\bar{X}	921.20	2.6360			
R	6.0	0.030			
REMARK:				Approved by: 吴炳焜	
				Checked by: 吴明珠	
				Drawn by: 陈雯欣	

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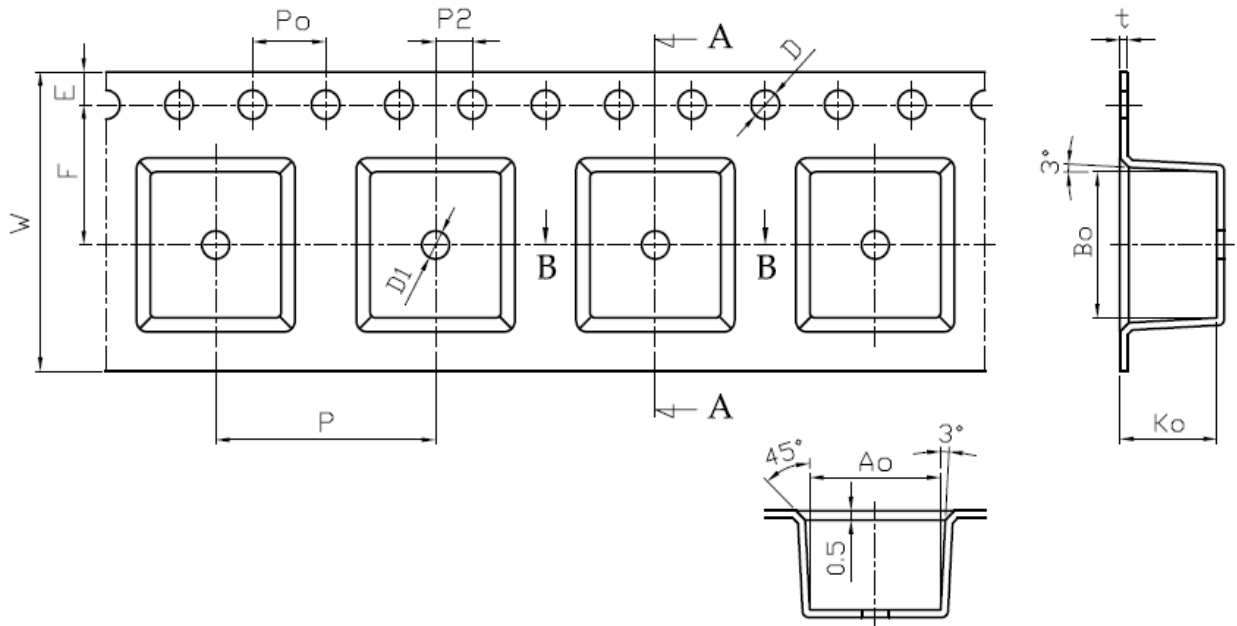
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e-mail: kc@mail.kingcore.com.tw

PACKAGING BS0705CDSU SERIES

1. 1000 PCS/REEL



2.1 共同尺寸

外觀	規格	公差
W	16.00	±0.30
P	12.00	±0.10
E	1.75	±0.10
F	7.50	±0.10
P2	2.00	±0.10
D	1.50	+0.10 -0.00
D1	1.50	±0.10
Po	4.00	±0.10
10Po	40.00	±0.20

2.2 口袋尺寸

外觀	規格	公差
Ao	7.15	±0.10
Bo	7.80	±0.10
Ko	5.30	±0.10
t	0.40	±0.05



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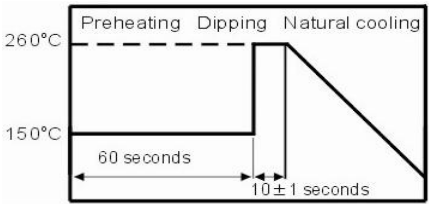
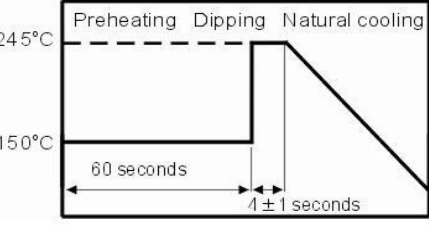
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RELIABILITY TEST – BS / BSF SERIES

1-1 Mechanical Performance

No	Item	Specification	Test Method
1-1-1	Vibration	Appearance: No damage L change: within $\pm 10\%$ Q change: within $\pm 30\%$	Test device shall be soldered on the substrate Oscillation Frequency: 10 to 55 to 10Hz for 1min Amplitude: 1.5mm Time: 2hrs for each axis (X, Y & Z), total 6hrs
1-1-2	Resistance to Soldering Heat	Appearance: No damage	Preheat: 150°C , 60 seconds Solder: temperature: $260 \pm 5^{\circ}\text{C}$ Flux: Rosin Dip time: 5 ± 0.5 seconds 
1-1-3	Solderability	The electrodes shall be at least 90% covered with new solder coating	Preheat: 150°C , 60 seconds Solder: temperature: $245 \pm 5^{\circ}\text{C}$ Flux: Rosin Dip time: 4 ± 1 seconds 

1-2 Environmental Performance

No	Item	Specification	Test Method									
1-2-1	Thermal Shock	Appearance: No damage L change: within $\pm 10\%$ Q change: within $\pm 30\%$	One cycle: <table border="1" data-bbox="817 1798 1278 1933"> <thead> <tr> <th>Step</th> <th>Temperature ($^{\circ}\text{C}$)</th> <th>Time (min)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-40 ± 3</td> <td>30</td> </tr> <tr> <td>2</td> <td>85 ± 2</td> <td>30</td> </tr> </tbody> </table> Total: 100cycles Measured after exposure in the room condition for 24hrs	Step	Temperature ($^{\circ}\text{C}$)	Time (min)	1	-40 ± 3	30	2	85 ± 2	30
Step	Temperature ($^{\circ}\text{C}$)	Time (min)										
1	-40 ± 3	30										
2	85 ± 2	30										



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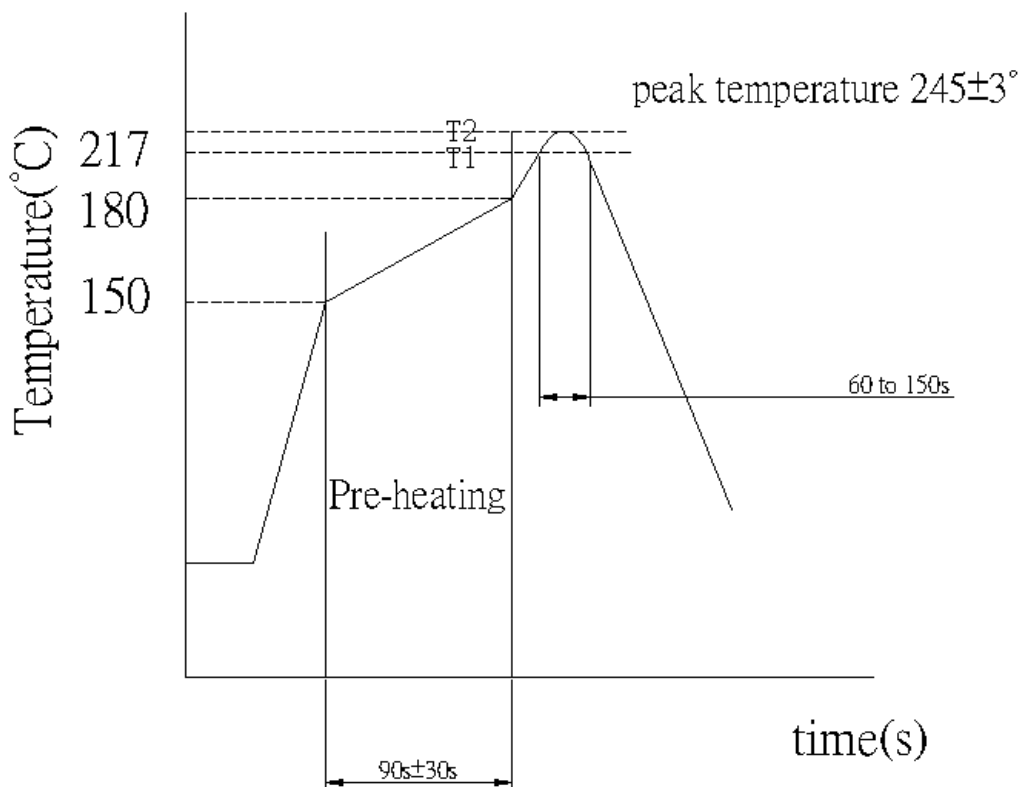
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1-2-2	Humidity Resistance		Temperature: $40\pm 2^{\circ}\text{C}$ Relative Humidity: 90 ~ 95% Time: 1000hrs Measured after exposure in the room condition for 24hrs
1-2-3	High Temperature Resistance		Temperature: $85\pm 3^{\circ}\text{C}$ Time: 1000hrs Measured after exposure in the room condition for 24hrs
1-2-4	Low Temperature Resistance		Temperature: $-25\pm 3^{\circ}\text{C}$ Relative Humidity: 0% Time: 1000hrs Measured after exposure in the room condition for 24hrs

1-3 Recommended Reflow Soldering profile



Note

1. Operating Temperature Range: -25°C to $+85^{\circ}\text{C}$
2. Storage Temperature Range: -40°C to $+85^{\circ}\text{C}$ (For products in unopened tape package 0°C to $+40^{\circ}\text{C}$)

測試報告

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鈞寶電子工業股份有限公司
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以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/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) : SMD POWDER INDUCTORS
樣品型號(Style/Item No.) : BSXXXX CDSU SERIES
收件日期(Sample Receiving Date) : 2015/07/16
測試期間(Testing Period) : 2015/07/16 TO 2015/07/21

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


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

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測試結果(Test Results)

測試部位(PART NAME)No.1 : 整體混測 (MIXED ALL PARTS)

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)
				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.
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.
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.
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.
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.
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.

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NO. 269, NANFONG RD., PINGJHEN DISTRICT, TAOYUAN CITY 324, 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)
				No. 1
全氟辛酸 / PFOA (CAS No. : 335-67-1)	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.
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.
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	mg/kg	參考IEC 62321-8 (111/321/CD), 以氣相層析 儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg	參考IEC 62321-8 (111/321/CD), 以氣相層析 儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No. : 84-69- 5)	mg/kg	參考IEC 62321-8 (111/321/CD), 以氣相層析 儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	mg/kg	參考IEC 62321-8 (111/321/CD), 以氣相層析 儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.

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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)
				No. 1
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS.	-	n. d.
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.
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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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No. 1
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)
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.)

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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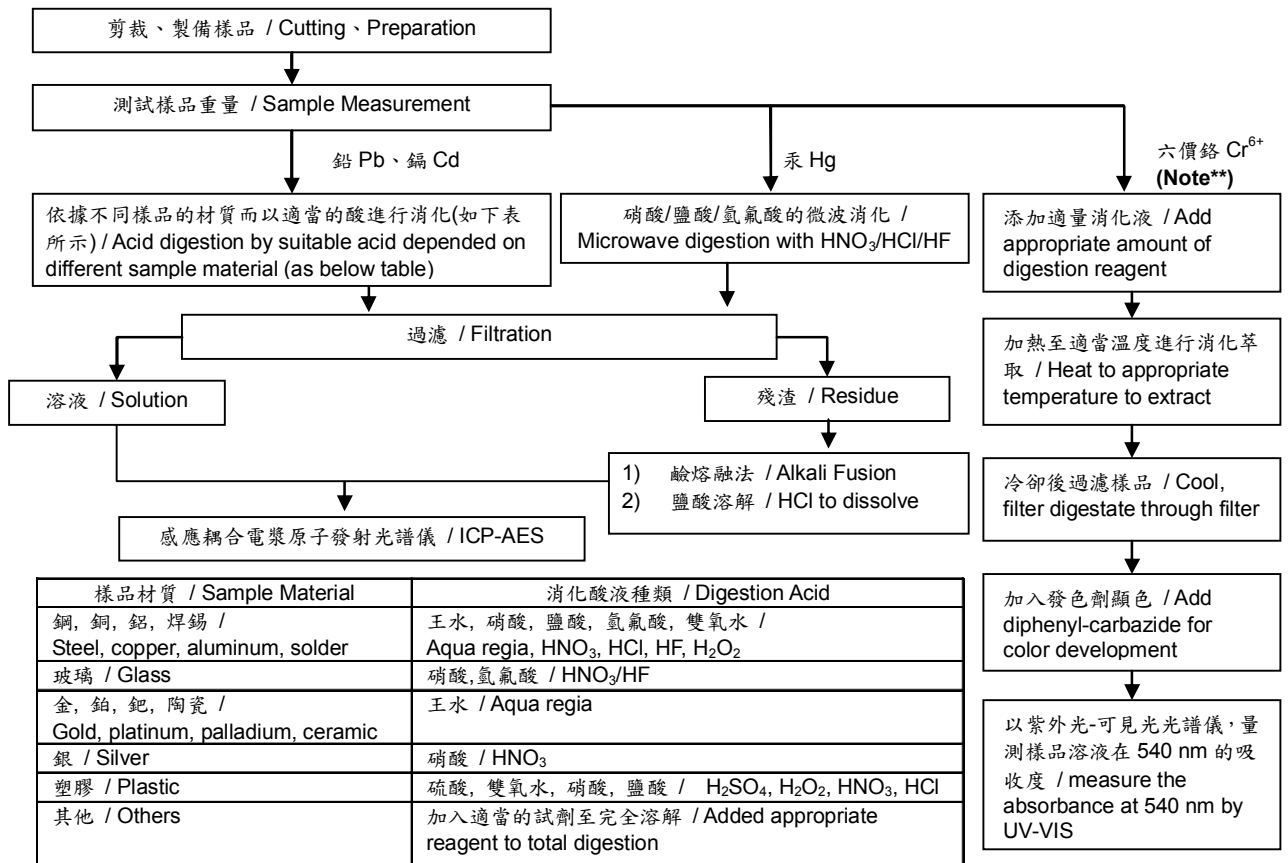
鈞寶電子工業股份有限公司
KING CORE ELECTRONICS INC.

桃園市平鎮區南豐路269號(平鎮工業區)

NO. 269, NANFONG RD., PINGJHEN DISTRICT, TAOYUAN CITY 324, 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：張啟興 / 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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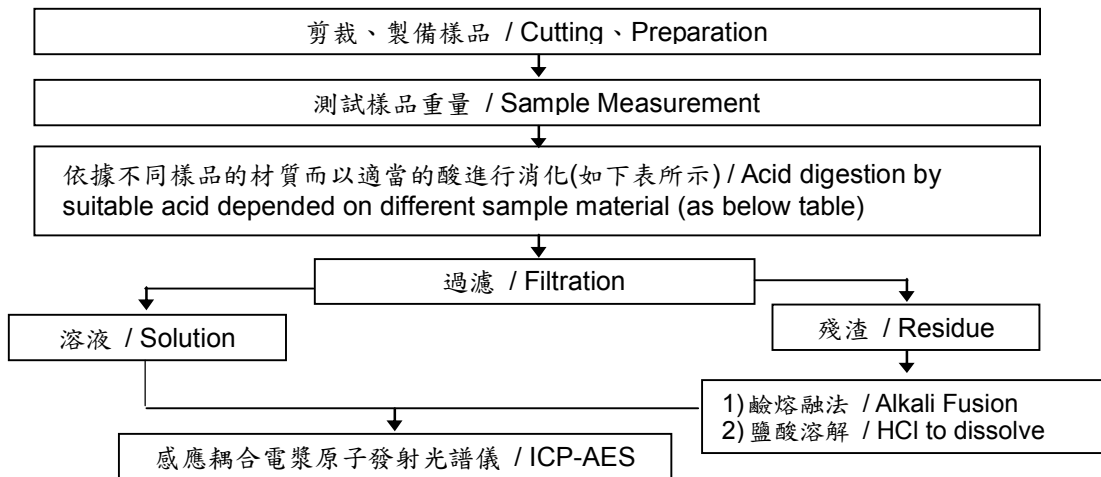
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NO. 269, NANFONG RD., PINGJHEN DISTRICT, TAoyuan CITY 324, TAIWAN



- 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.
- 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人：張啟興 / 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,鈷,鈱,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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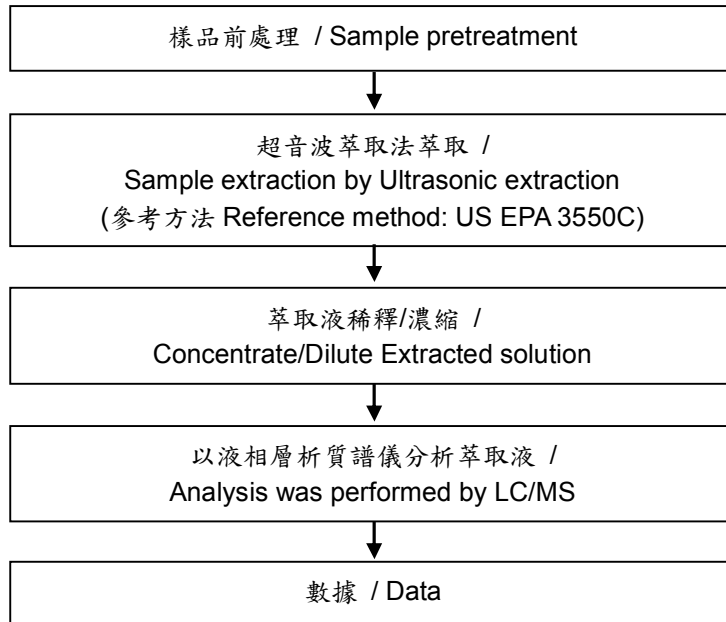
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全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啟興 / Name of the person in charge of measurement: Troy Chang



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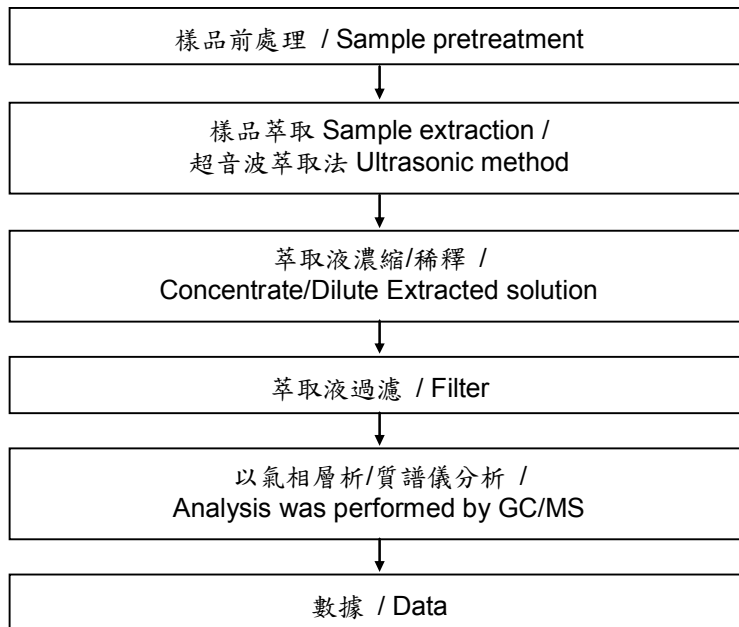
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啟興 / Name of the person in charge of measurement: Troy Chang



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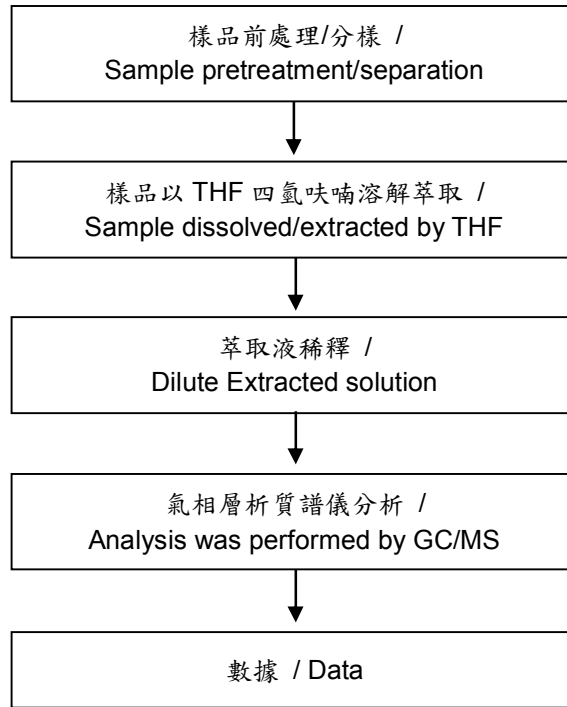
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員：徐毓明 / Name of the person who made measurement: Andy Shu
- 測試負責人：張啟興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: IEC 62321-8】



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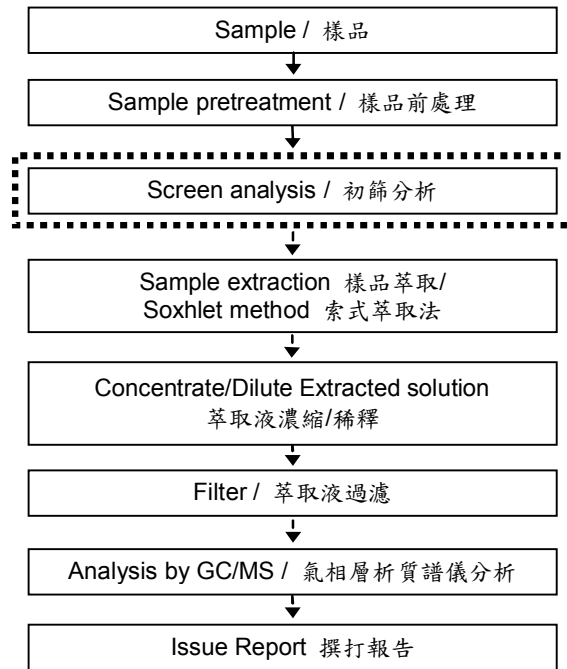
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啟興 / 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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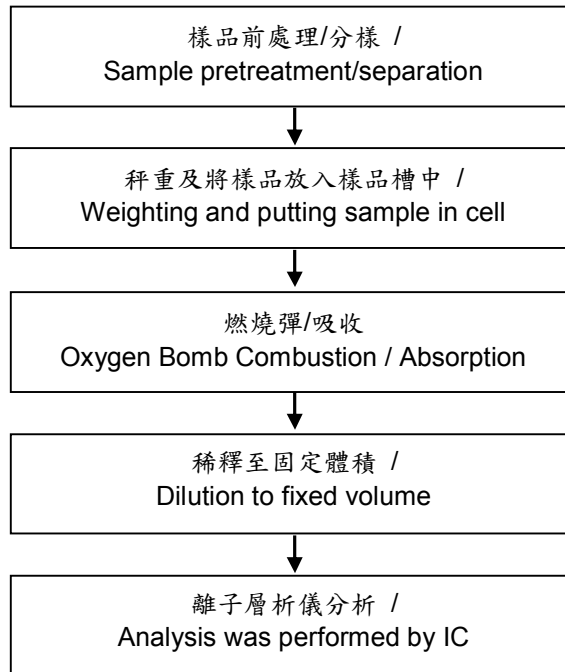
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鹵素分析流程圖 / Analytical flow chart of halogen content

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



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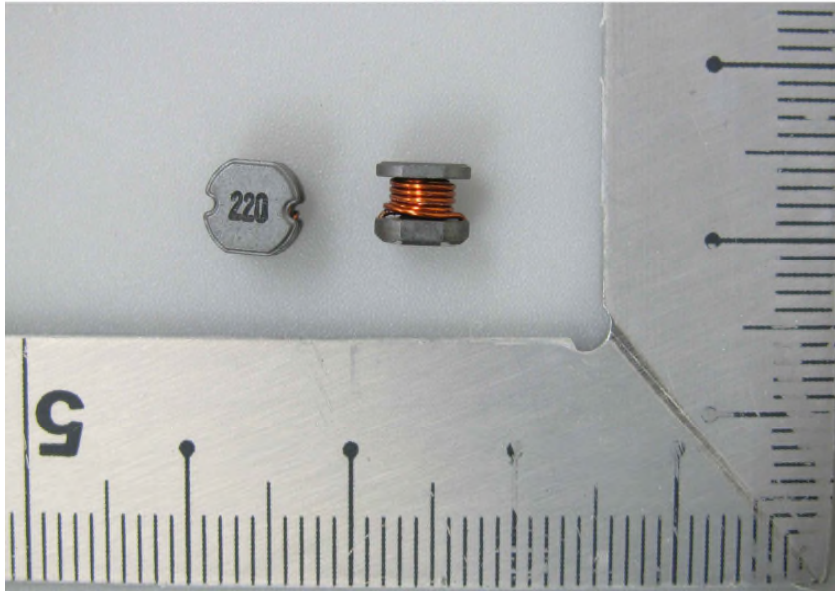
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

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** 報告結尾 (End of Report) **