

CERAMIC DISC CAPACITORS

陶 瓷 電 容 器

SPECIFICATION FOR APPROVAL					
承 認 規 格					
CUSTOMER 客 戶		DATE 日 期	108. 6. 13		
USER PART NO. 客 戶 零 件 代 號		LIOFU'S CODE 品 名	陶瓷電容器		
USED SPEC. 適 用 規 格	V				
		D:	5± MAX		
		T:	2.5± 0.5 MAX		
		F:	5 ± 0.8		
		L:	7± 0.5 MIN		
		d:	0.48± 0.05		
		B:	3 MAX		
		COLOR CODE: 顏 色	■土黃色	■ EPOXY (藍色)	
SPECIFICATIONS					
規 格					
RATED CAP. 公稱靜電容量	222 PF	LIFE TEST (ENDURANCE) 高 溫 負 荷			
CAP. TOL. 靜電容量容許差	+10% -10%	PF	CAP. CHANG % 靜 電 容 量 變 化		
TEMP. CHARACT 溫 度 特 性	Y5P	Q tan δ	MIN % MAX		
INITIAL tan δ 初 期 tan δ	2.5% MAX	INSULATION PESISTANCE 絕 緣 電 阻	MΩ MIN		
RATED VOLTAGE 額 定 電 壓	DC 50V	HUMIDITY LIFE TEST 耐 濕 負 荷			
VLOTAGE PROOF 耐 電 壓		CAP. CHANG % 靜電容量變化			
BETWEEN TERMINALS 端 子 間	<input type="checkbox"/> AC FOR 60 SEC	Q tan δ	MIN % MAX		
	DC 150V FOR 1~5 SEC	INSULATION PESISTANCE 絕 緣 電 阻	MΩ MIN		
BETWEEN 端子外裝間 TERNHXABS&COATING	DC V	本公司承認欄			
INITIAL 初期絕緣電阻 INSULATION RESISTANCE	10000 MΩ MIN				
CUSTOMER'S SIGNATURE 貴 公 司 承 認 欄				Approval 核 決	Chief 審 核
				Inspector 檢 驗	

測試報告

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Test Report



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) :
樣品名稱(Sample Description) : CERAMIC DISC CAPACITOR (陶瓷電容器)
收件日期(Sample Receiving Date) : 2016/04/14
測試期間(Testing Period) : 2016/04/14 TO 2016/04/21

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測試需求(Test Requested) : 依據客戶指定, 進行鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚測試。 (As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)

測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

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), 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		2	n. d.
汞 / Mercury (Hg)	mg/kg	參考 IEC 62321-4 (2013) 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), 以 UV-VIS 檢測. / With reference to IEC 62321 (2008) and performed by UV-VIS.	2	n. d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考 IEC 62321-6 (2015), 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.	

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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
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考 IEC 62321-6 (2015), 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.	

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.)

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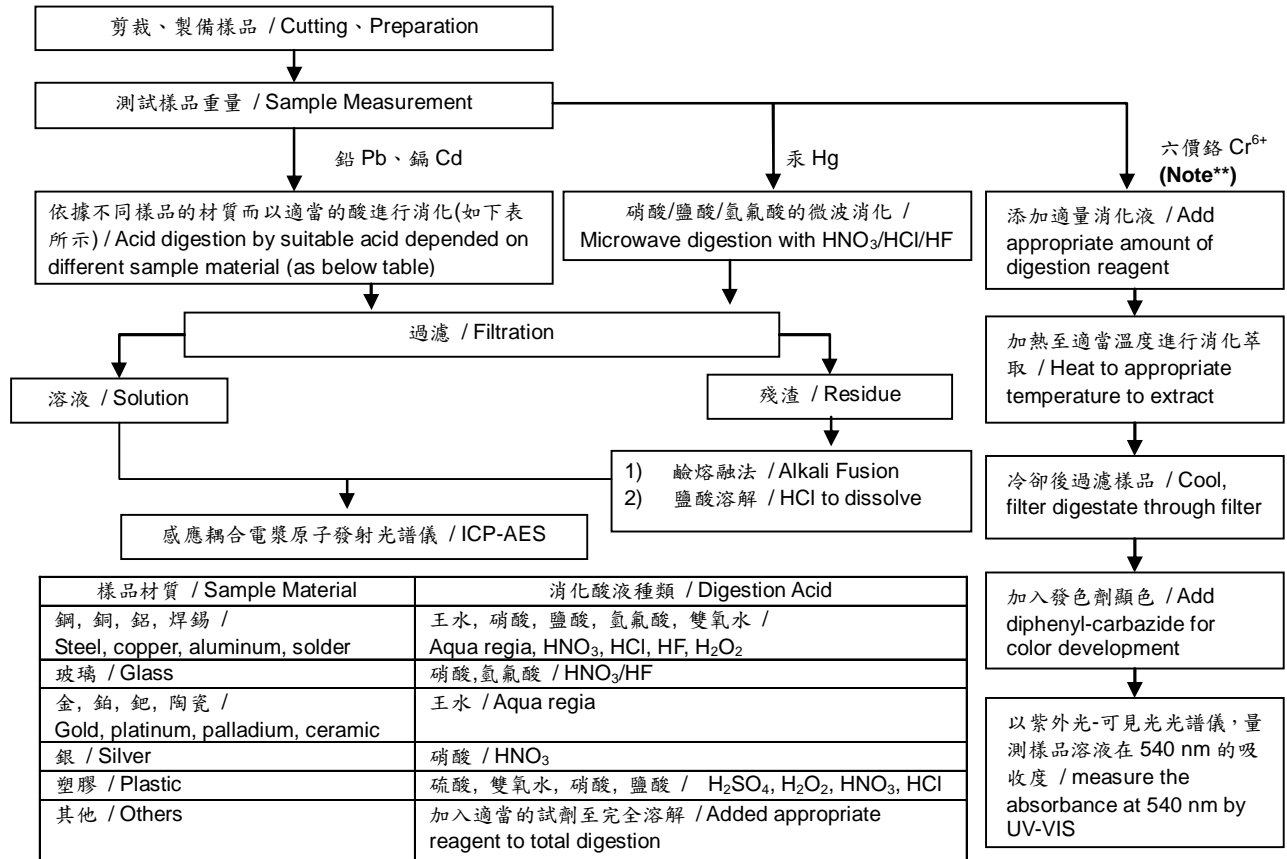
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張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



Note:** (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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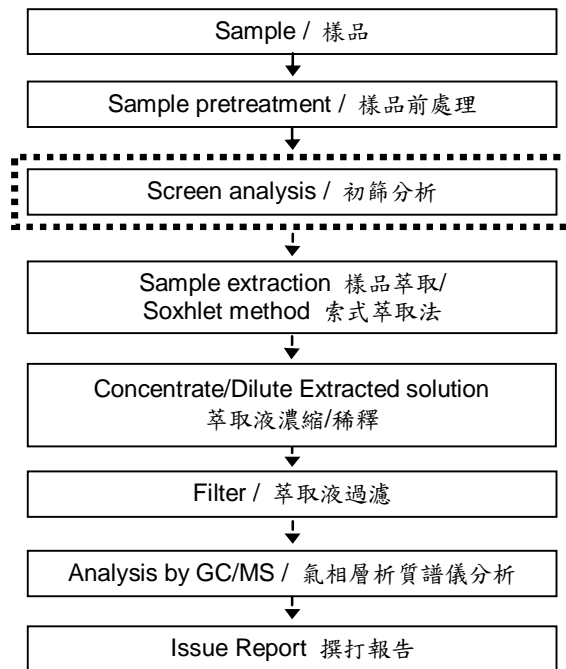
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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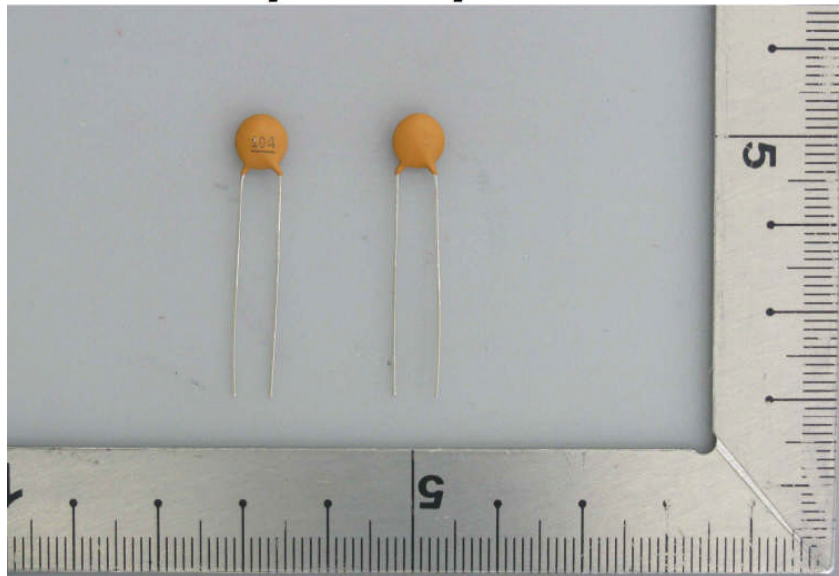
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

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** 報告結尾 (End of Report) **

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