

Survey Report

凱優特有限公司
324桃園縣平鎮市高雙里高山下135之2號

報告號碼 : CS/2006/50302A
日期 : 2006/05/24
頁數 : 1 of 8

以下測試樣品乃供應廠商所提供及確認：

樣品名稱 : SOLID STATE RELAY
產品型號 : PANEL TYPE(KC、KD、KG、KL、KR SERIES)

=====
測試結果 : - 請見下一頁 -

此份為合併申請廠商所提供的17份檢驗報告


Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

Survey Report

凱優特有限公司
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測試結果

- 測試部位 NO.1 : 整體混測(FIXED RESISTORS)(CE/2005/B2109)
 測試部位 NO.2 : 黑色塑膠本體(CS/2005/B0048 NO.1)
 測試部位 NO.3 : 銀色金屬腳(CS/2005/B0048 NO.2)
 測試部位 NO.4 : 整體混測(CS/2005/B0048 NO.3)
 測試部位 NO.5 : 混測帶有棕色印刷的淡黃棕色本體(CE/2005/44501A)
 測試部位 NO.6 : 混測黃色環氧樹脂&銀色金屬鋅線&銀色鋅錫線&銀色金屬銅線&銀色金屬膜&黃色瑪拉膠帶(CE/2005/41073)
 測試部位 NO.7 : 整體混測(TOSHIBA SEMICONDUCTOR)(CE/2005/B6346A)
 測試部位 NO.8 : 黑色塑膠(GZSCR040308935/LP)
 測試部位 NO.9 : 透明本體(GZSCR050635328/LP NO.1)
 測試部位 NO.10 : 銀色金屬腳(GZSCR050635328/LP NO.2)
 測試部位 NO.11 : LUPOX GP-2156F NP(F690101/LF-CTS020067)
 測試部位 NO.12 : 綠色板(CE/2004/A0681)
 測試部位 NO.13 : 多彩的塑膠粒(CE/2005/33371)
 測試部位 NO.14 : 銀色金屬(CE/2004/C4252A)
 測試部位 NO.15 : 棕黃色液體(CE/2004/52741)
 測試部位 NO.16 : 銀色金屬螺絲(CE/2005/A4381)
 測試部位 NO.17 : 鋁片(KA/2005/90462)
 測試部位 NO.18 : EPORITE 5350A/B(KA/2006/10403)
 測試部位 NO.19 : 灰色薄片(CE/2005/40060A)
 測試部位 NO.20 : 銀色金屬線(CE/2005/A1680A)

測試項目:	單位	測試方法	偵測極限值	結果				
				NO.1	NO.2	NO.3	NO.4	NO.5
六價鉻	ppm	依照US EPA 3060A方法,用UV-VIS(US EPA 7196A)做分析	2	N.D.	N.D.	N.D.	N.D.	N.D.
鎘	ppm	依照 EN1122 方法B:2001或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	N.D.	N.D.	N.D.	N.D.
汞	ppm	依照 US EPA 3052 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	N.D.	N.D.	N.D.	N.D.
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	72.9	85.8	68.4	14.9

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測試項目:	單位	測試方法	偵測極限值	結果				
				NO.1	NO.2	NO.3	NO.4	NO.5
一溴聯苯	%	本測試參考USEPA3540C 或 USEPA3550C方法，以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.	N.D.	---	N.D.	N.D.
二溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
三溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
四溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
五溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
六溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
七溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
八溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
九溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
十溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
總多溴聯苯(PBBs)/以上總和	%		-	N.D.	N.D.	---	N.D.	N.D.
一溴聯苯醚	%	本測試參考USEPA3540C 或 USEPA3550C方法，以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.	N.D.	---	N.D.	N.D.
二溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
三溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
四溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
五溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
六溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
七溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
八溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
九溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
十溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
總多溴聯苯醚(PBBEs/PBDEs)/以上總和	%		-	N.D.	N.D.	---	N.D.	N.D.
一溴聯苯醚至九溴聯苯醚總和(備註4)	%	-	N.D.	N.D.	---	N.D.	N.D.	

測試項目:	單位	測試方法	偵測極限值	結果				
				NO.6	NO.7	NO.8	NO.9	NO.10
六價鉻	ppm	依照US EPA 3060A方法,用UV-VIS(US EPA 7196A)做分析	2	N.D.	N.D.	N.D.	N.D.	N.D.
鎘	ppm	依照 EN1122 方法B:2001或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	N.D.	N.D.	7.0	26.0
汞	ppm	依照 US EPA 3052 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	N.D.	N.D.	N.D.	N.D.
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	47.9	11.0	N.D.	N.D.	N.D.

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測試項目:	單位	測試方法	偵測極限值	結果				
				NO.6	NO.7	NO.8	NO.9	NO.10
一溴聯苯	%	本測試參考USEPA3540C 或 USEPA3550C方法,以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.	N.D.	N.D.	N.D.	---
二溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
三溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
四溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
五溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
六溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
七溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	---
八溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	---
九溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	---
十溴聯苯	%		0.0005	N.D.	N.D.	---	N.D.	---
總多溴聯苯(PBBs)/以上總和	%		-	N.D.	N.D.	---	N.D.	---
一溴聯苯醚	%	本測試參考USEPA3540C 或 USEPA3550C方法,以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.	N.D.	N.D.	N.D.	---
二溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
三溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
四溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
五溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
六溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
七溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	---
八溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	---
九溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	---
十溴聯苯醚	%		0.0005	N.D.	N.D.	---	N.D.	---
總多溴聯苯醚(PBBEs/PBDEs)/以上總和	%		-	N.D.	N.D.	---	N.D.	---
一溴聯苯醚至九溴聯苯醚總和(備註4)	%		-	N.D.	N.D.	---	N.D.	---

測試項目:	單位	測試方法	偵測極限值	結果				
				NO.11	NO.12	NO.13	NO.14	NO.15
六價鉻	ppm	依照US EPA 3060A方法,用UV-VIS(US EPA 7196A)做分析	2	N.D.	N.D.	N.D.	N.D.	N.D.
鎘	ppm	依照 EN1122 方法B:2001或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	---	N.D.	N.D.	N.D.	N.D.
汞	ppm	依照 US EPA 3052 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	N.D.	N.D.	N.D.	N.D.
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	N.D.	12.0	498.7	9.4

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測試項目:	單位	測試方法	偵測極限值	結果				
				NO.11	NO.12	NO.13	NO.14	NO.15
鎘	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	---	---	---	---

測試項目:	單位	測試方法	偵測極限值	結果				
				NO.11	NO.12	NO.13	NO.14	NO.15
一溴聯苯	%	本測試參考USEPA3540C 或 USEPA3550C方法,以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.	N.D.	N.D.	N.D.	---
二溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
三溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
四溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
五溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
六溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
七溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
八溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
九溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
十溴聯苯	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
總多溴聯苯(PBBs)/以上總和	%		-	N.D.	N.D.	N.D.	N.D.	---
一溴聯苯醚	%	本測試參考USEPA3540C 或 USEPA3550C方法,以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.	N.D.	N.D.	N.D.	---
二溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
三溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
四溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
五溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
六溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
七溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
八溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
九溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
十溴聯苯醚	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
總多溴聯苯醚(PBBEs/PBDEs)/以上總和	%		-	N.D.	N.D.	N.D.	N.D.	---
一溴聯苯醚至九溴聯苯醚總和(備註4)	%	-	N.D.	N.D.	N.D.	N.D.	---	

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測試項目：	單位	測試方法	偵測極限值	結果				
				NO.16	NO.17	NO.18	NO.19	NO.20
一溴聯苯	%	本測試參考USEPA3540C 或 USEPA3550C方法，以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.	---	N.D.	N.D.	N.D.
二溴聯苯	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
三溴聯苯	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
四溴聯苯	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
五溴聯苯	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
六溴聯苯	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
七溴聯苯	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
八溴聯苯	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
九溴聯苯	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
十溴聯苯	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
總多溴聯苯(PBBs)/以上總和	%		-	N.D.	---	N.D.	N.D.	N.D.
一溴聯苯醚	%	本測試參考USEPA3540C 或 USEPA3550C方法，以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.	---	N.D.	N.D.	N.D.
二溴聯苯醚	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
三溴聯苯醚	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
四溴聯苯醚	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
五溴聯苯醚	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
六溴聯苯醚	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
七溴聯苯醚	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
八溴聯苯醚	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
九溴聯苯醚	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
十溴聯苯醚	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
總多溴聯苯醚(PBBEs/PBDEs)/以上總和	%		-	N.D.	---	N.D.	N.D.	N.D.
一溴聯苯醚至九溴聯苯醚總和(備註4)	%	-	N.D.	---	N.D.	N.D.	N.D.	

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測試項目:	單位	測試方法	偵測極限值	結果				
				NO.16	NO.17	NO.18	NO.19	NO.20
六價鉻	ppm	依照US EPA 3060A方法,用UV-VIS(US EPA 7196A)做分析	2	N.D.	N.D.	N.D.	N.D.	N.D.
鎘	ppm	依照 EN1122 方法B:2001或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	N.D.	N.D.	N.D.	N.D.
汞	ppm	依照 US EPA 3052 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	N.D.	N.D.	N.D.	N.D.
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.	N.D.	N.D.	N.D.	184.3

- 備註：(1) N.D. = Not detected.(<MDL) / 未檢出(低於偵測極限值)
 (2) ppm = mg/kg / 百萬分之一
 (3) MDL= Method Detection Limit(偵測極限值)
 (4) 根據2005年10月13日歐盟會議公佈2005/717/EC，修訂2002/95/EC內容，通過解除高分子材質中十溴聯苯醚之使用限制。
 (5) " -" = Not Regulation / 無規格值
 (6) " ---" = Not Applicable / 未測項目

Survey Report

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