

No. CANEC2123297302

日期: 2021年12月14日 第1页,共7页

江苏拓能半导体科技有限公司 江苏省苏州市虎丘区高新区枫桥创新产业园4号厂房

以下测试之样品是由申请者所提供及确认:晶体管

SGS工作编号: CP21-065838 - GZ

型号: SOT-23

客户参考信息: 见备注

样品接收日期: 2021年12月09日

测试周期: 2021年12月09日 - 2021年12月14日

测试要求: 根据客户要求测试 测试方法: 请参见下一页 测试结果: 请参见下一页

结论: 基于所送样品的指定部位进行的测试,镉、铅、汞、六价铬、多溴联

苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯

(DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指

令(EU) 2015/863的限值要求。

通标标准技术服务有限公司广州分公司 授权签名

邱蔚研

Coral Qiu 邱蔚珊 批准签署人





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测试报告 No. CANEC2123297302 日期: 2021年12月14日 第2页,共7页

测试结果:

测试样品描述:

样品编号 SGS样品ID 描述 SN1 CAN21-232973.001 黑色本体

备注:

(1) 1 mg/kg = 0.0001%

(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析.

测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	ND
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND



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测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1,000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1,000	mg/kg	50	ND

备注:

- (1)最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321系列等同于 EN 62321系列

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586

(3) 2021年7月22号开始, DEHP, BBP, DBP 和 DIBP的限制适用于医疗器械,包括体外医疗器械,监控仪 表,包括工业监测和控制仪器。

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备注:

适用于:

SOT-23-XL, sot-89/ 23/ 143/ 223/ 323/ 343/ 353/ 363/ 523/ 553/ 563/ 723, DFN/ SOD-123/ 323/ 523/ 723/ 923, SOP8/ 14/ 16/ 18, TSSOP8, FBP, CSP, QFN, TO-92/ 126/ 220/ 220F/ 247/ 251/ 251S/ 252/ 263/ 3P, R-1/ R-6/ A-405, 6GBJ, ABS, DB, DBS, DO-15, DO-27, DO-35, DO-41, GBJ, GBL, GBP, GBU, JBF, JBSL, KBL, KBP, KBU, MBF, MBS, SMA, SMAF, SMAJ, SMB, SMBF, SMBJ, SMC, SMCJ, SMD, SOD-123FL



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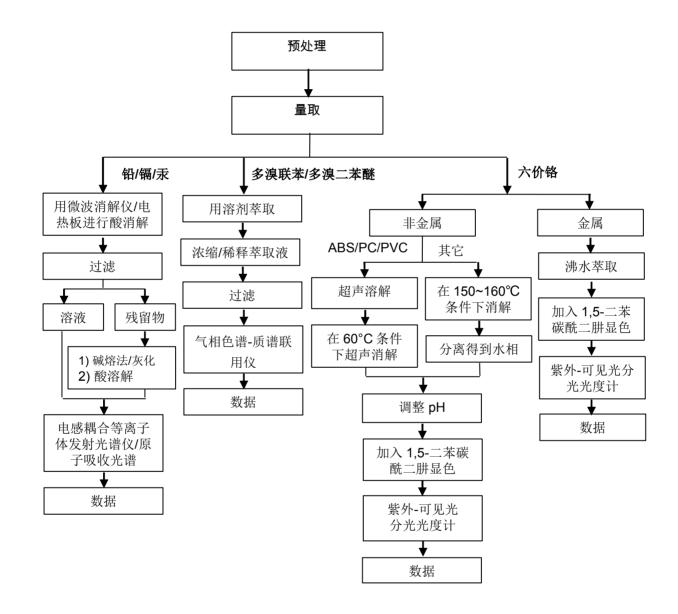
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附件

Pb/Cd/Hg/Cr6+/PBBs/PBDEs 测试流程图

1) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。





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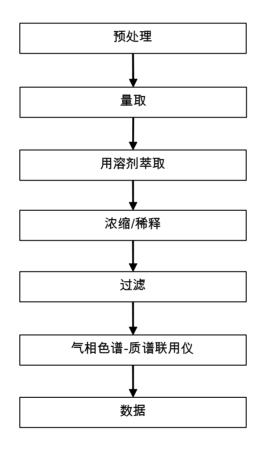


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附件

Phthalates 测试流程图





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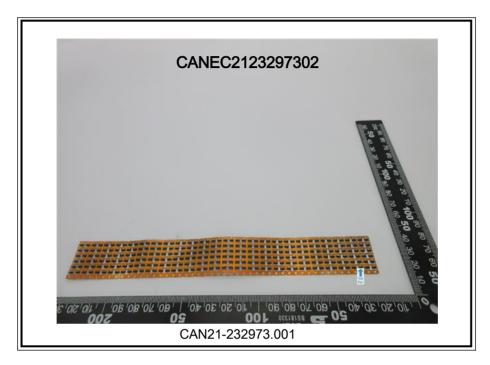
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