

RoHS 测试报告

报告编号 : AGC03023210301-021

样品名称 : 石英晶体谐振器

样品型号 : 贴片 3225

委托单位 : 珠海凯晶电子有限公司

检测标准 : 请参见后续页。

签发日期 : 2021 年 4 月 2 日

深圳市鑫宇环标准技术有限公司



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测试地址 : 深圳市宝安区航城街道三围社区三围茶西工业区 2 栋 6 层

样品信息:

样品名称 : 石英晶体谐振器
型号 : 贴片 3225
系列型号 : 7050 6035 5032 2520 2016
收样日期 : 2021 年 3 月 22 日
测试周期 : 2021 年 3 月 22 日至 2021 年 3 月 25 日

测试要求:

根据客户要求, 依据欧盟议会和欧盟理事会第 2011/65/EU (RoHS) 号指令及修正案 (EU) 2015/863 的要求对送检样品中的铅、镉、汞、六价铬、多溴联苯、多溴二苯醚、DBP、BBP、DEHP、DIBP 的含量进行测定。

结论**合格**

签发: _____

梁丹

技术总监

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测试结果:

测试项目	测试方法/ 仪器	方法检出限	最大限值
铅 (Pb)	IEC 62321-5:2013/ ICP-OES	10mg/kg	1000mg/kg
镉 (Cd)	IEC 62321-5:2013/ ICP-OES	10mg/kg	100mg/kg
汞 (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	10mg/kg	1000mg/kg
非金属: 六价铬 (Cr ⁶⁺)	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg
金属: 六价铬 (Cr ⁶⁺)	IEC 62321-7-1:2015/ UV-Vis	0.1µg/cm ²	/
多溴联苯(PBBs) - 一溴联苯(MonoBB) - 二溴联苯(DiBB) - 三溴联苯(TriBB) - 四溴联苯(TetraBB) - 五溴联苯(PentaBB) - 六溴联苯(HexaBB) - 七溴联苯(HeptaBB) - 八溴联苯(OctaBB) - 九溴联苯(NonaBB) - 十溴联苯(DecaBB)	IEC 62321-6:2015/ GC-MS	单项 5mg/kg	总和 1000mg/kg
多溴二苯醚 (PBDEs) - 一溴二苯醚(MonoBDE) - 二溴二苯醚(DiBDE) - 三溴二苯醚(TriBDE) - 四溴二苯醚(TetraBDE) - 五溴二苯醚(PentaBDE) - 六溴二苯醚(HexaBDE) - 七溴二苯醚(HeptaBDE) - 八溴二苯醚(OctaBDE) - 九溴二苯醚(NonaBDE) - 十溴二苯醚(DecaBDE)	IEC 62321-6:2015/ GC-MS	单项 5mg/kg	总和 1000mg/kg
邻苯二甲酸二异丁酯(DIBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg
邻苯二甲酸二正丁酯(DBP)		50mg/kg	1000mg/kg
邻苯二甲酸丁苄酯(BBP)		50mg/kg	1000mg/kg
邻苯二甲酸二(2-乙基己基)(DEHP)		50mg/kg	1000mg/kg

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序号	测试结果(mg/kg)										结论	
	Pb	Cd	Hg	Cr ⁶⁺	PBBs	PBDEs	DIBP	DBP	BBP	DEHP		
3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	符合

注释:

mg/kg = 毫克每千克

 $\mu\text{g}/\text{cm}^2$ = 微克每平方厘米

N.D.= 未检出 (小于方法检出限)

N/A= 不适用

备注:

- 沸水提取: (X 为待测样品结果)

序号	比色结果(铬(VI)浓度)	判定
1	$X < 0.1 \mu\text{g}/\text{cm}^2$	阴性
2	$0.1 \mu\text{g}/\text{cm}^2 \leq X \leq 0.13 \mu\text{g}/\text{cm}^2$	不确定
3	$X > 0.13 \mu\text{g}/\text{cm}^2$	阳性

- 阴性表明测试区域内六价铬含量低于定量极限, 认定镀层不存在六价铬;
 不确定表明测试区域镀层六价铬的不可避免的变化影响结果判定, 导致无法判定结果;
 阳性表明测试区域内六价铬含量高于定量极限, 认定镀层含有六价铬;
 由于未获知样品的存储条件和生产日期、样品的六价铬测试结果仅代表测试时样品的状态。
- 根据客户要求, 对送检样品进行整体测试。

样品描述:

3	石英晶体谐振器
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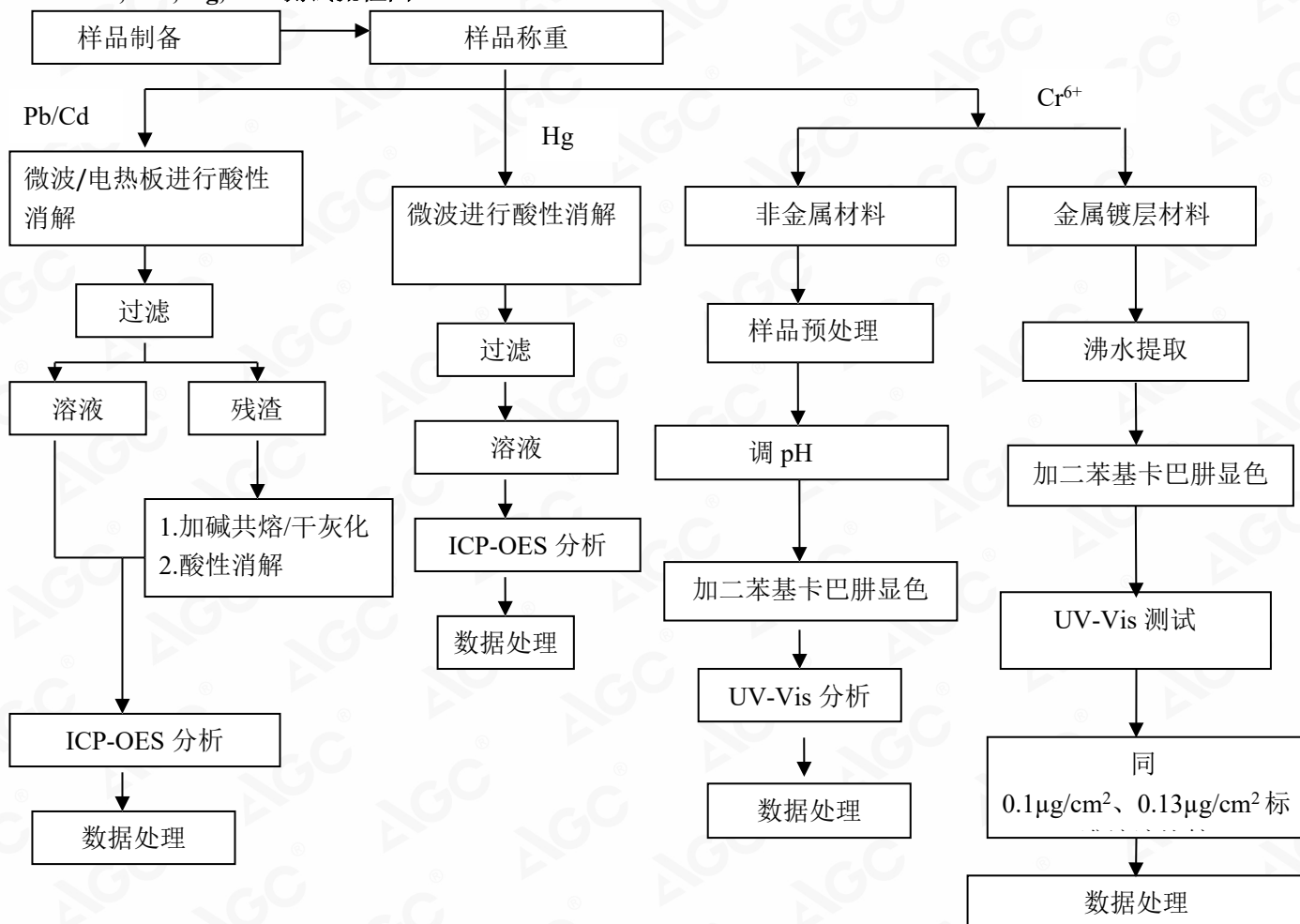
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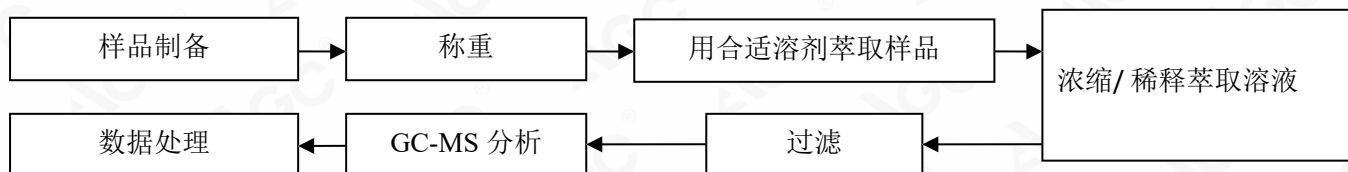
测试流程图

1. Pb, Cd, Hg, Cr⁶⁺ 测试流程图



根据以上的流程图之条件, 样品已经完全溶解 (六价铬测试方法除外)。

2. PBBs, PBDEs, DBP, BBP, DEHP 和 DIBP 的测试流程图

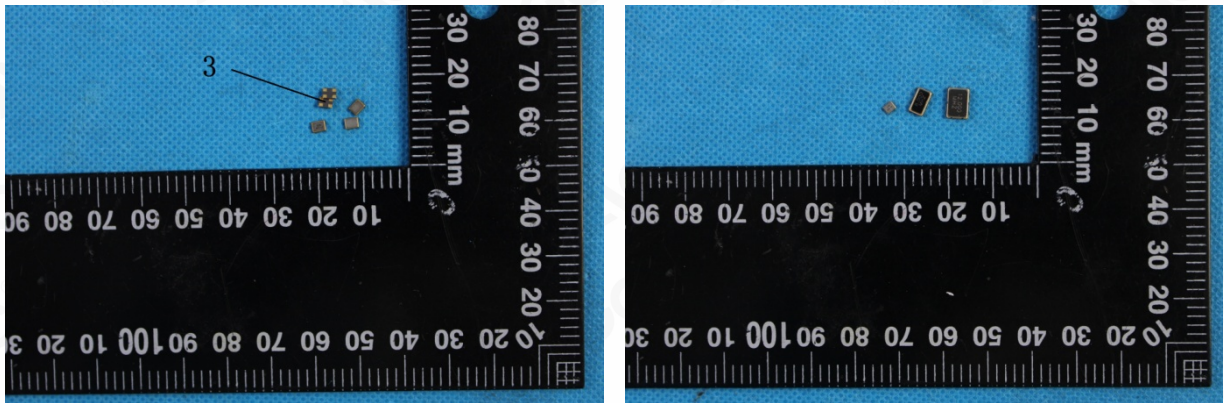


-根据客户要求, 增加此份报告, 其结果引用自报告 AGC03023210301-009

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样品附图



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