

## 检测报告

编号: CANEC25011880802

日期: 2025 年 05 月 29 日

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客户名称: 江苏长晶科技股份有限公司

客户地址: 中国(江苏)自由贸易试验区南京片区研创园腾飞大厦 C 座 13 楼

样品名称: 半导体元件

型号: SOT-23-3LK

客户参考信息: SOT-223-3LK、SOT-89K、TO-126、TO-220(-XL)、TO-252(-XL)、TO-92、SOT-89(-XL)

以上样品及信息由客户提供。

SGS 工作编号: GZP25-014006

参考编号: SHP25-016350

样品接收时间: 2025 年 05 月 22 日

检测周期: 2025 年 05 月 22 日 ~ 2025 年 05 月 29 日

检测要求: 根据客户要求检测

检测方法: 见后续页。

检测结果: 见后续页。

| 检测要求   | 结论 |
|--|----|
| 欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP) | 符合 |

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授权签名

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## 检测结果:

## 检测部件外观描述:

| 样品序号 | 样品编号 | SGS 样品 ID               | 样品描述    |
|------|------|-------------------------|---------|
| SN1  | A1   | CAN25-0118808-0001.C001 | "半导体元件" |

## 备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检出限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 和 IEC 62321-12:2023, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

| 检测项目             | 限值   | 单位    | MDL | A1                |
|------------------|------|-------|-----|-------------------|
| 铅 (Pb)           | 1000 | mg/kg | 2   | 1143 <sup>▲</sup> |
| 汞 (Hg)           | 1000 | mg/kg | 2   | ND                |
| 镉 (Cd)           | 100  | mg/kg | 2   | ND                |
| 六价铬 (Cr(VI))     | 1000 | mg/kg | 8   | ND                |
| 多溴联苯之和 (PBB)     | 1000 | mg/kg | -   | ND                |
| 一溴联苯 (MonoBB)    | -    | mg/kg | 25  | ND                |
| 二溴联苯 (DiBB)      | -    | mg/kg | 25  | ND                |
| 三溴联苯 (TriBB)     | -    | mg/kg | 25  | ND                |
| 四溴联苯 (TetraBB)   | -    | mg/kg | 25  | ND                |
| 五溴联苯 (PentaBB)   | -    | mg/kg | 25  | ND                |
| 六溴联苯 (HexaBB)    | -    | mg/kg | 25  | ND                |
| 七溴联苯 (HeptaBB)   | -    | mg/kg | 25  | ND                |
| 八溴联苯 (OctaBB)    | -    | mg/kg | 25  | ND                |
| 九溴联苯 (NonaBB)    | -    | mg/kg | 25  | ND                |
| 十溴联苯 (DecaBB)    | -    | mg/kg | 25  | ND                |
| 多溴二苯醚之和 (PBDE)   | 1000 | mg/kg | -   | ND                |
| 一溴二苯醚 (MonoBDE)  | -    | mg/kg | 25  | ND                |
| 二溴二苯醚 (DiBDE)    | -    | mg/kg | 25  | ND                |
| 三溴二苯醚 (TriBDE)   | -    | mg/kg | 25  | ND                |
| 四溴二苯醚 (TetraBDE) | -    | mg/kg | 25  | ND                |
| 五溴二苯醚 (PentaBDE) | -    | mg/kg | 25  | ND                |
| 六溴二苯醚 (HexaBDE)  | -    | mg/kg | 25  | ND                |
| 七溴二苯醚 (HeptaBDE) | -    | mg/kg | 25  | ND                |
| 八溴二苯醚 (OctaBDE)  | -    | mg/kg | 25  | ND                |



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| 检测项目                   | 限值   | 单位    | MDL | A1 |
|------------------------|------|-------|-----|----|
| 九溴二苯醚 (NonaBDE)        | -    | mg/kg | 25  | ND |
| 十溴二苯醚 (DecaBDE)        | -    | mg/kg | 25  | ND |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg | 50  | ND |
| 邻苯二甲酸丁苄酯 (BBP)         | 1000 | mg/kg | 50  | ND |
| 邻苯二甲酸二丁酯 (DBP)         | 1000 | mg/kg | 50  | ND |
| 邻苯二甲酸二异丁酯 (DIBP)       | 1000 | 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。

(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。

备注▲: 根据客户提供的声明, 样品中的铅(Pb)被欧盟 RoHS 指令 2011/65/EU 豁免, 相应豁免条文(请以英文原文为准) |ANNEX III 7(c)-I|: 电子电气元件中玻璃或陶瓷材料(电容中陶瓷介质除外)所含的铅, 如压电设备、玻璃或陶瓷基复合元件。更多豁免相关信息, 可以从以下链接获取:

<https://rohs.sgsonline.com.cn/PDFLinks/zh-cn/RSTS-TP-037%20RoHS%20Exemption%20%28CN%29.pdf>

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ( $w=0$ ) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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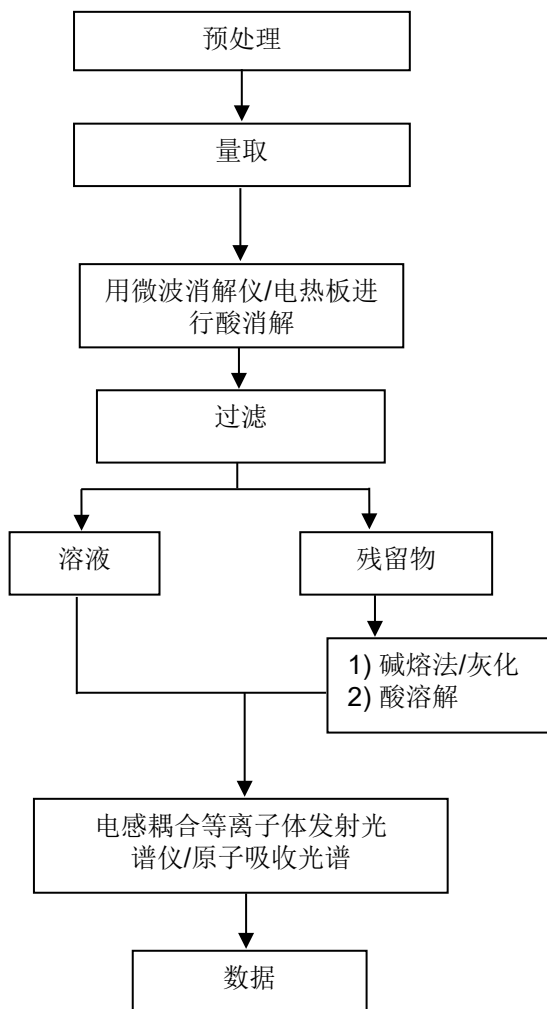
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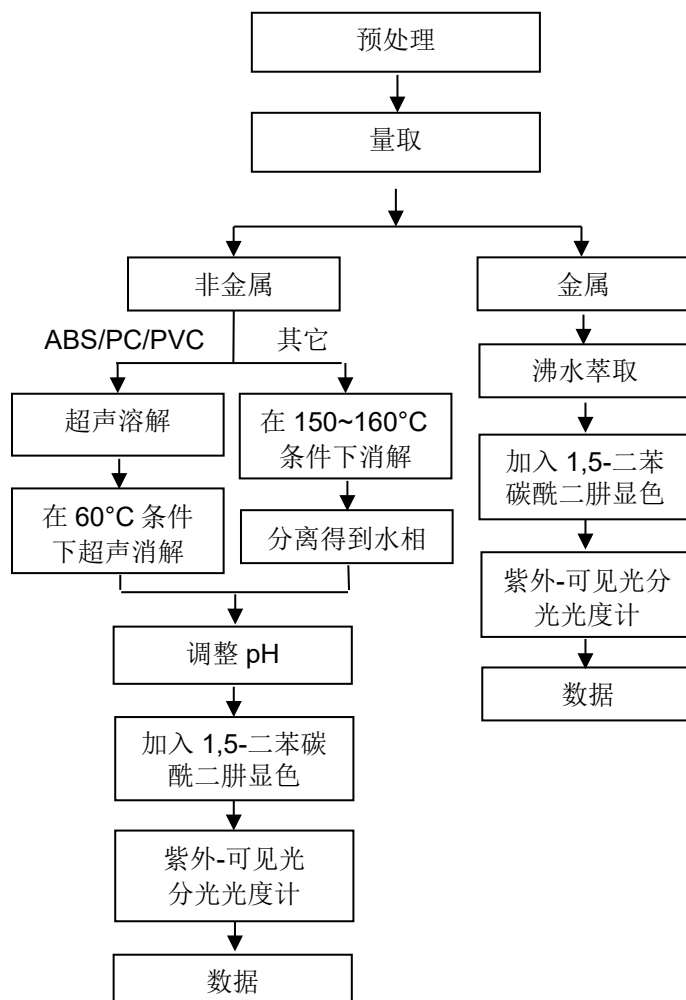
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## 元素检测流程图

样品按照下述流程被完全消解

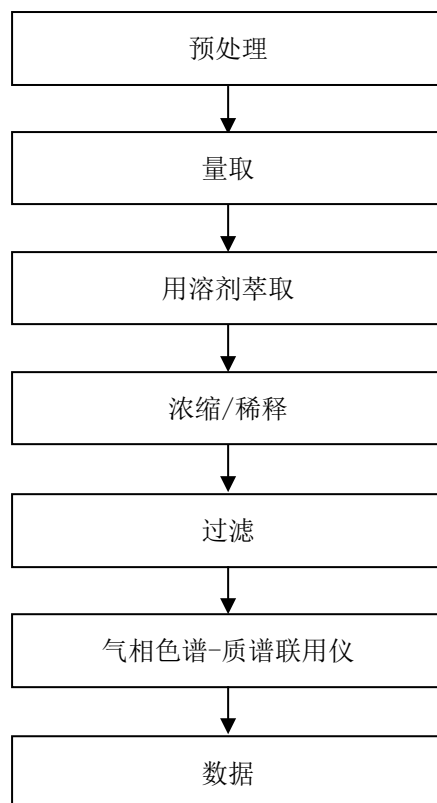


## 六价铬检测流程图





### PBB/PBDE/Phthalates 检测流程图



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样品照片:



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