

## 检测报告

编号: TAOEC2306921006

日期: 2023年10月12日 第1页,共5页

客户名称: 济南鲁晶半导体有限公司  
客户地址: 济南市高新区飞跃大道2016号创新工场F1/F3

样品名称: 玻封二极管  
型号: LL34  
客户参考信息: DO-35, DO-34, DO-41G, LL34(MINI-MELF), LL41 (MELF)  
以上样品及信息由客户提供。

SGS工作编号: QDP23-001244 - QD  
样品接收日期: 2023年09月20日  
检测周期: 2023年09月20日 - 2023年10月11日  
检测要求: 根据客户要求检测  
检测方法: 请参见下一页  
检测结果: 请参见下一页

通标标准技术服务(青岛)有限公司  
授权签名

Zhang Bo, Justin 张波  
批准签署人

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# 检测报告

编号: TAOEC2306921006

日期: 2023年10月12日 第2页,共5页

检测结果:

## 检测样品描述:

样品编号	SGS样品ID	描述
SN1	TAO23-069210.003	带有银色金属和透明玻璃的的橙色本体(混测)

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

## 全氟辛烷磺酸(PFOS)及其衍生物和全氟辛酸(PFOA)及其盐

检测方法: 参照CEN/TS 15968:2010方法, 采用LC-MS-MS检测.

检测项目	CAS NO.	单位	MDL	003
全氟辛烷磺酸(PFOS)及衍生物	-	mg/kg	-	ND
全氟辛烷磺及其衍生物 (PFOS) <sup>^</sup>	1763-23-1	mg/kg	0.01	ND
N-乙基全氟辛烷磺酰胺 (EtFOSA)	4151-50-2	mg/kg	0.01	ND
2-(N-乙基全氟辛基磺酰胺)乙醇 (EtFOSE)	1691-99-2	mg/kg	0.01	ND
N-甲基全氟辛烷磺酰胺 (MeFOSA)	31506-32-8	mg/kg	0.01	ND
2-(N-甲基全氟辛基磺酰胺)乙醇 (MeFOSE)	24448-09-7	mg/kg	0.01	ND
全氟辛基磺酰胺 (PFOSA)	754-91-6	mg/kg	0.01	ND
全氟辛酸(PFOA)及其盐+		mg/kg	0.01	ND

备注:

- (1) <sup>^</sup>全氟辛烷磺酸是指其酸、盐/衍生物, 包括全氟辛烷磺酸 (CAS No.: 1763-23-1), 全氟辛基磺酸钾 (CAS No.: 2795-39-3), 全氟辛基磺酸锂 (CAS No.: 29457-72-5), 全氟辛基磺酸铵 (CAS No.: 29081-56-9), 全氟辛烷磺酸二乙醇胺 (CAS No.: 70225-14-8), 全氟辛烷磺酸四乙铵 (CAS No.: 56773-42-3), 全氟辛基磺酸二癸二甲基铵 (CAS No.: 251099-16-8) 和全氟辛基磺酰氟 (CAS No.: 307-35-7)。
- (2) PFOA及其盐+是指其酸/盐, 包括全氟辛酸 (CAS No.: 335-67-1), 全氟辛酸钠 (CAS No.: 335-95-5), 全氟辛酸钾 (CAS No.: 2395-00-8), 全氟辛酸银 (CAS No.: 335-93-3), 全氟辛酰氟 (CAS No.: 335-66-0) 和全氟辛酸铵 (CAS No.: 3825-26-1)。

备注:

样品的检测是基于申请人要求混合检测, 报告中的混合检测结果不代表其中个别单一材质的含量, 该检测数据仅供参考。

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。



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## 检测报告

编号: TAOEC2306921006

日期: 2023年10月12日 第3页,共5页

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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。

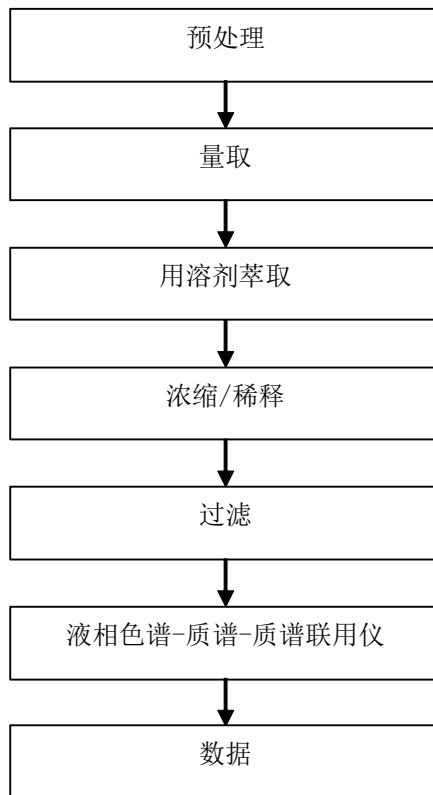
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### PFOS/PFOA 检测流程图



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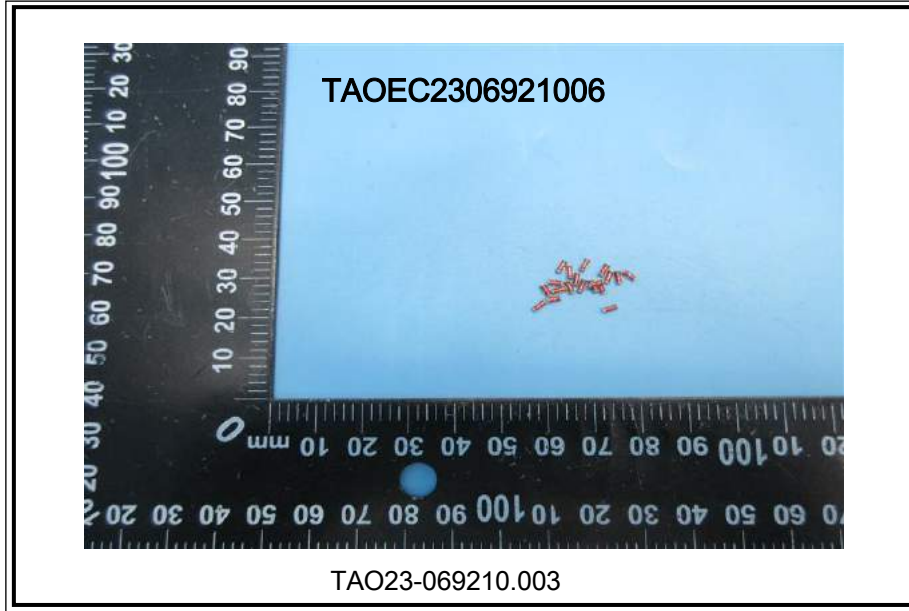


## 检测报告

编号: TAOEC2306921006

日期: 2023年10月12日 第5页,共5页

样品照片:



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有限公司



SGS-CSTC (Technical Services) (Qingdao) Co., Ltd.

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## 检测报告

编号: TAOEC2306921002

日期: 2023年10月12日 第1页,共8页

客户名称: 济南鲁晶半导体有限公司  
客户地址: 济南市高新区飞跃大道2016号创新工场F1/F3

样品名称: 玻封二极管  
型号: LL34  
客户参考信息: DO-35, DO-34, DO-41G, LL34(MINI-MELF), LL41 (MELF)  
以上样品及信息由客户提供。

SGS工作编号: QDP23-001244 - QD  
样品接收日期: 2023年09月20日  
检测周期: 2023年09月20日 - 2023年10月11日  
检测要求: 根据客户要求检测  
检测方法: 请参见下一页  
检测结果: 请参见下一页  
检测结果概要:

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(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苯酯(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)	符合

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## 检测报告

编号: TAOEC2306921002

日期: 2023年10月12日 第2页,共8页

检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	TAO23-069210.001	带有银色金属和透明玻璃的的橙色本体(混测)

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

**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(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸二丁酯(DBP), 邻苯二甲酸丁基酯(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)**

检测方法: 参考IEC 62321-5:2013, IEC 62321-4:2013+AMD1:2017, 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.

检测项目	限值	单位	MDL	001
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	225511▲
汞(Hg)	1000	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	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)	1000	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



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## 检测报告

编号: TAOEC2306921002

日期: 2023年10月12日 第3页,共8页

检测项目	限值	单位	MDL	001
五溴二苯醚	-	mg/kg	5	ND
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)	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(2-乙基己基)酯(DEHP)	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。
- (4)采用IEC 62321-7-1:2015 沸水萃取法核查检测样品未检出六价铬。
- (5)▲根据客户提供的声明, 编号001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)-II]: 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。
- (6) 铅的检测结果仅供参考。

备注:

样品的检测是基于申请人要求混合检测, 报告中的混合检测结果不代表其中个别单一材质的含量, 该检测数据仅供参考。

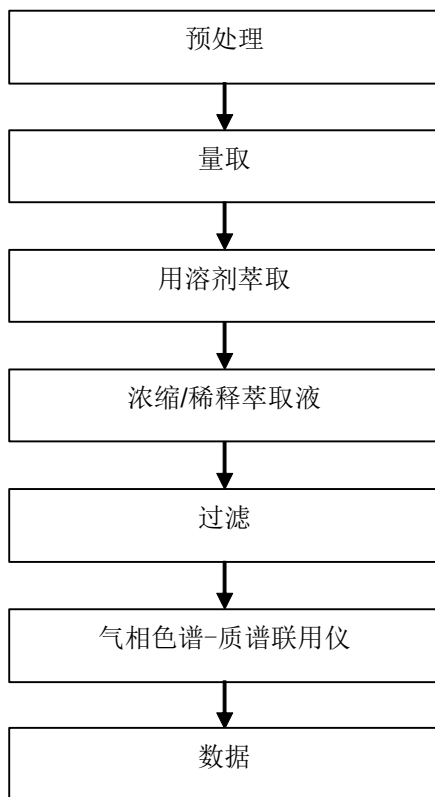
除非另有说明, 参照ILAC-G8:09/2019, 使用简单接受 ( $w=0$ ) 的二元判定规则进行符合性判定。  
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 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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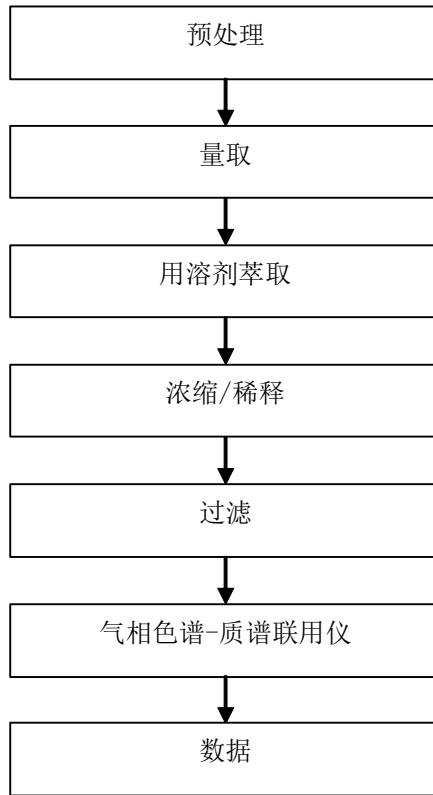
### PBBs/PBDEs 检测流程图



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## Phthalates 检测流程图

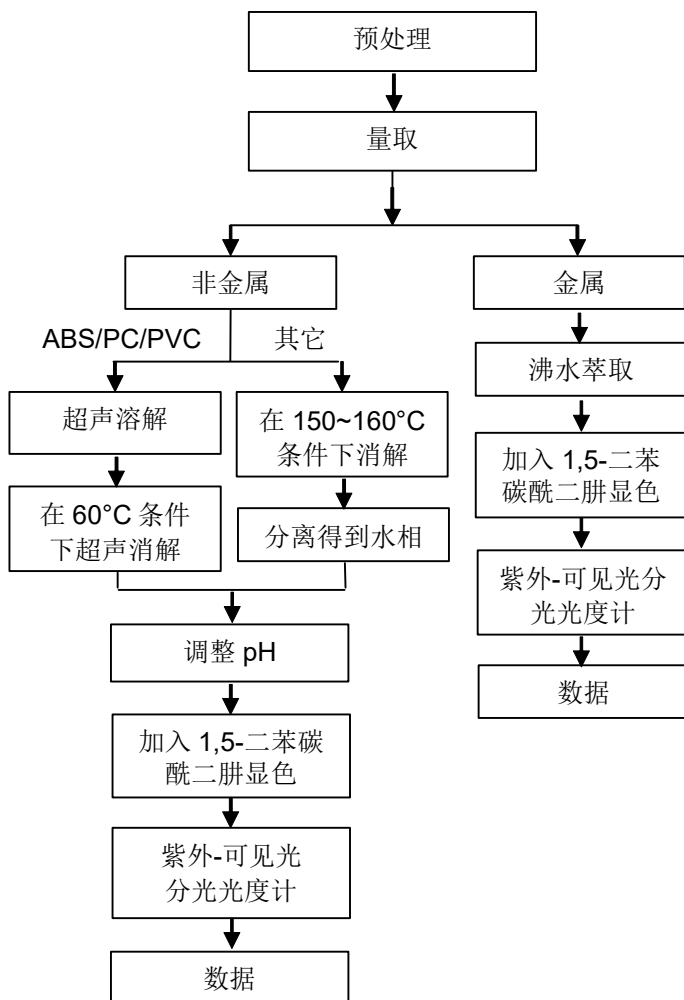


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附件

### 六价铬检测流程图

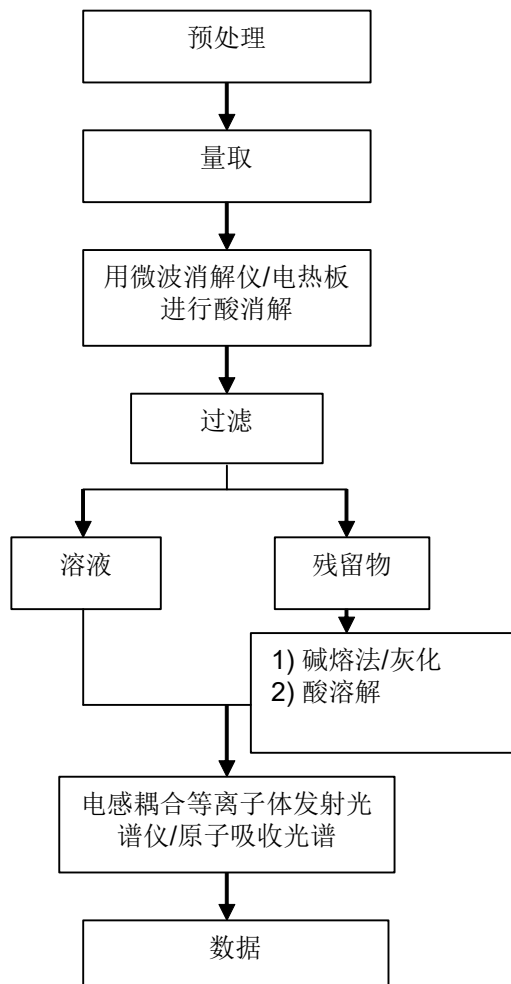


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## 元素(IEC62321) 检测流程图

1)样品按下述流程被完全消解

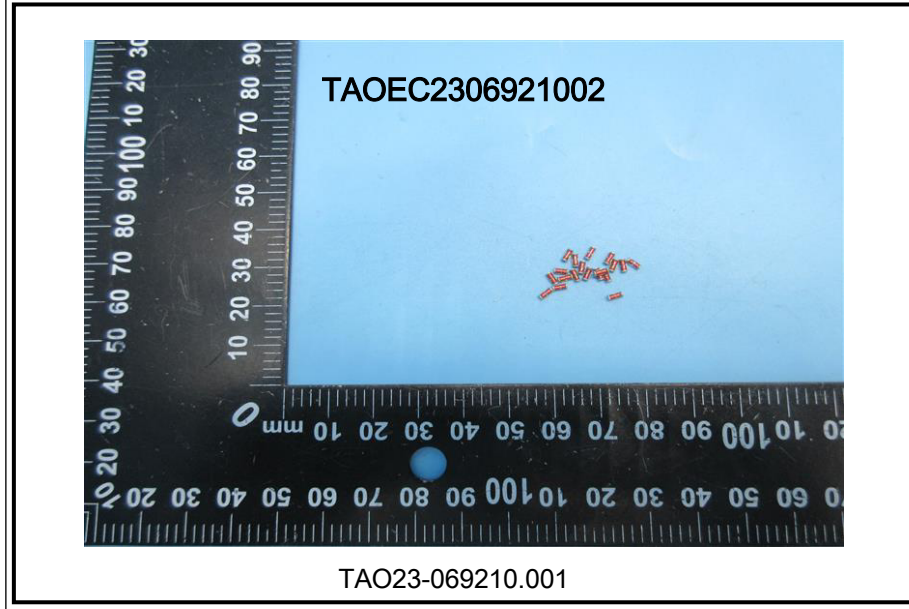


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样品照片:



此照片仅限于随SGS正本报告使用

\*\*\* 报告结束 \*\*\*

第八页



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## 检测报告

编号: TAOEC2306921004

日期: 2023年10月12日 第1页,共4页

客户名称: 济南鲁晶半导体有限公司

客户地址: 济南市高新区飞跃大道2016号创新工场F1/F3

样品名称: 玻封二极管

型号: LL34

客户参考信息: DO-35, DO-34, DO-41G, LL34(MINI-MELF), LL41 (MELF)

以上样品及信息由客户提供。

SGS工作编号: QDP23-001244 - QD

样品接收日期: 2023年09月20日

检测周期: 2023年09月20日 - 2023年10月11日

检测要求: 根据客户要求检测

检测方法: 请参见下一页

检测结果: 请参见下一页

通标标准技术服务(青岛)有限公司  
授权签名

Zhang Bo, Justin 张波  
批准签署人

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## 检测报告

编号: TAOEC2306921004

日期: 2023年10月12日 第2页,共4页

检测结果:

### 检测样品描述:

样品编号	SGS样品ID	描述
SN1	TAO23-069210.002	带有银色金属和透明玻璃的的橙色本体(混测)

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

### 卤素

检测方法: 参照EN 14582: 2016方法测定, 采用 IC进行分析.

检测项目	单位	MDL	002
氟(F)	mg/kg	20	ND
氯(Cl)	mg/kg	50	ND
溴(Br)	mg/kg	50	ND
碘(I)	mg/kg	50	ND

备注:

样品的检测是基于申请人要求混合检测, 报告中的混合检测结果不代表其中个别单一材质的含量, 该检测数据仅供参考。

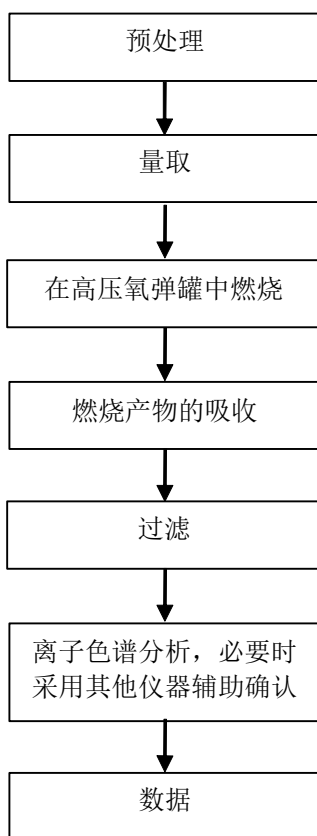
除非另有说明, 参照ILAC-G8:09/2019, 使用简单接受 ( $w=0$ ) 的二元判定规则进行符合性判定。  
 除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。  
 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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附件

### 卤素检测流程图

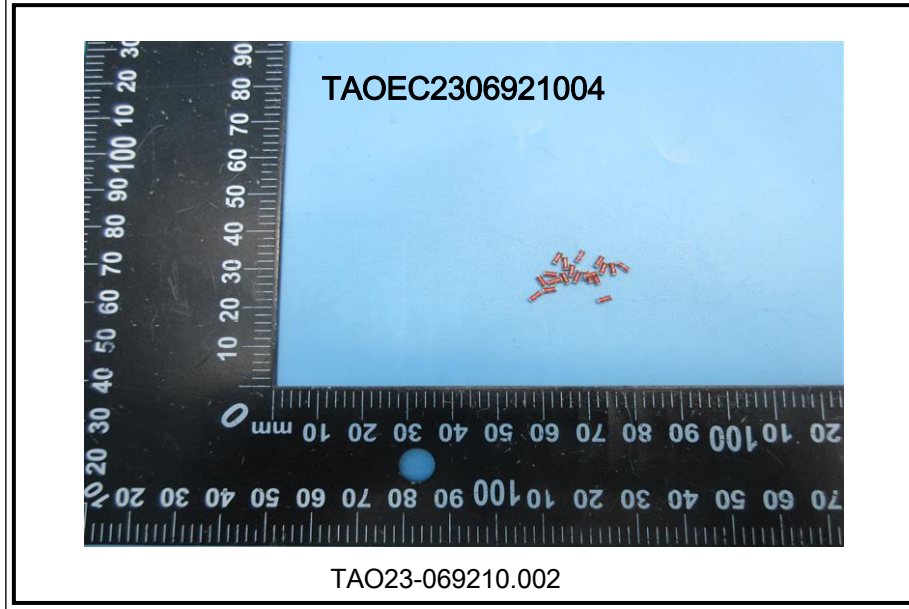


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