

检测报告 编号: SHAEC2208420002 日期: 2022年07月20日 第1页,共11页

客户名称: 捷捷半导体有限公司

客户地址: 江苏省南通市苏通科技产业园井冈山路6号

样品名称: 固态继电器

以上样品及信息由客户提供。

SGS工作编号: SP22-012439 - SH 样品接收日期: 2022年06月28日

检测周期: 2022年06月28日 - 2022年07月04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

结论: 基于所送样品进行的检测,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

> 检测结果符合欧盟RoHS指令2011/65/EU附录Ⅱ的修正指令(EU) 2015/863的限值

要求。

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Tom Ni倪俊 批准签署人





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检测报告 编号: SHAEC2208420002 日期: 2022年07月20日 第2页,共11页

检测结果:

检测样品描述:

| 样品编号 | SGS样品ID | 描述 |
|------|------------------|---------|
| SN1 | SHA22-084200.001 | 黑色/银色本体 |
| SN2 | SHA22-084200.002 | 黑色固体 |
| SN3 | SHA22-084200.003 | 银色金属 |

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

检测方法: 参考IEC 62321-4:2013+AMD1:2017, 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。

| <u>检测项目</u> | <u>限值</u> | <u>单位</u> | <u>MDL</u> | <u>001</u> |
|----------------|-----------|-----------|------------|------------|
| 镉(Cd) | 100 | mg/kg | 2 | ND |
| 铅(Pb) | 1000 | mg/kg | 2 | 2569▲ |
| 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 |
| | | | | |



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| 检测报告 编号: SHAEC2208420002 日期: 2022年07月20日 第3页,共11 | 检测报告 | 编号: SHAEC2208420002 | 日期: 2022年07月20日 | 第3页,共11页 |
|--|------|---------------------|-----------------|----------|
|--|------|---------------------|-----------------|----------|

| 检测项目 | <u>限值</u> | 单位 | <u>MDL</u> | <u>001</u> |
|-----------------------|-----------|-------|------------|------------|
| 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 |
| 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。

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 37,25

- (2) 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。
- (3)▲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(a)|: 高熔点型焊料中的铅(如铅含量等于或大于85%的铅基合金焊料)。

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

检测方法: 参考IEC 62321-4:2013+AMD1:2017,IEC 62321-5:2013和IEC 62321-7-1:2015,采用ICP-OES和UV-Vis进行分析。

| <u>检测项目</u> | 限值 | <u>单位</u> | <u>MDL</u> | <u>003</u> |
|--------------|------|-----------|------------|------------|
| 镉 (Cd) | 100 | mg/kg | 2 | ND |
| 铅(Pb) | 1000 | mg/kg | 2 | 15 |
| 汞 (Hg) | 1000 | mg/kg | 2 | ND |
| 六价铬(Cr(VI))▼ | - | μg/cm² | 0.10 | ND |

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321系列

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(2) ▼ = a. 当六价铬的浓度高于0.13 µg/cm²时,样品为阳性,即含有六价铬;



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编号: SHAEC2208420002

日期: 2022年07月20日 第4页,共11页

b. 当六价铬的浓度为ND(低于0.10 µg/cm²)时,样品为阴性,即未检测到六价铬;

c. 当六价铬的浓度介于 $0.10 \, \mu g/cm^2 = 0.13 \, \mu g/cm^2$ 之间时,无法直接判定是否检测到六价铬,因不同个体的 样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期,样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

索应

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

| <u>检测项目</u> | <u>单位</u> | <u>MDL</u> | <u>002</u> |
|-------------|-----------|------------|------------|
| 氟 (F) | mg/kg | 50 | ND |
| 氯 (CI) | mg/kg | 50 | 111 |
| 溴 (Br) | mg/kg | 50 | ND |
| 碘 (I) | mg/kg | 50 | ND |

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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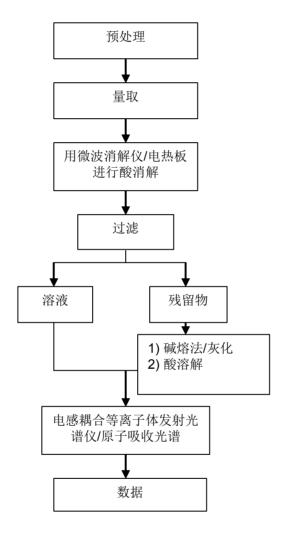
编号: SHAEC2208420002

日期: 2022年07月20日 第5页,共11页

附件

元素(IEC62321) 检测流程图

1) 样品按照下述流程被完全消解





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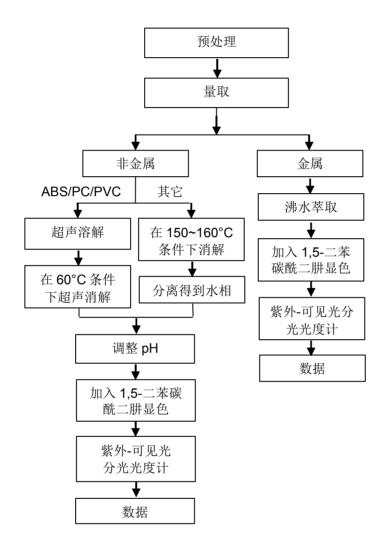


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日期: 2022年07月20日 第6页,共11页

六价铬检测流程图





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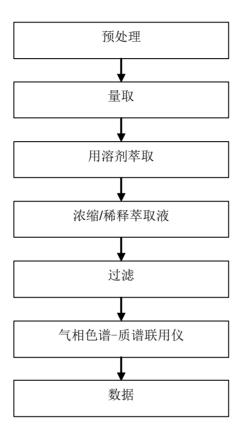


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日期: 2022年07月20日 第7页,共11页

PBBs/PBDEs 检测流程图





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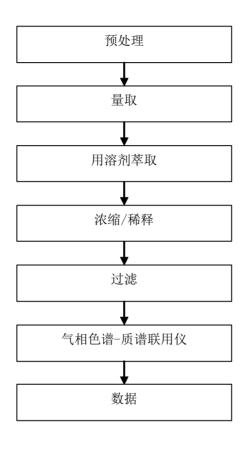


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日期: 2022年07月20日 第8页,共11页

Phthalates 检测流程图





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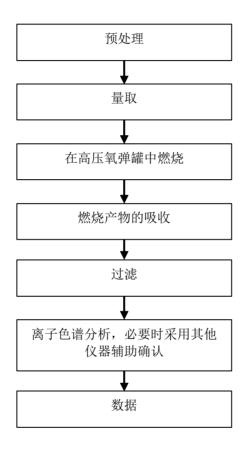


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日期: 2022年07月20日 第9页,共11页

Halogen(氧弹法)检测流程图





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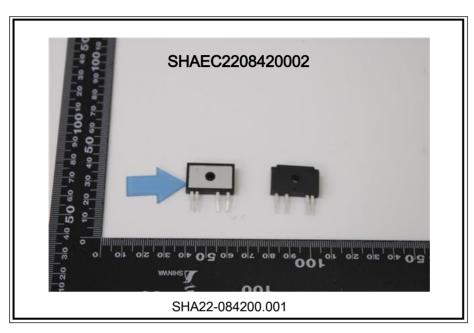
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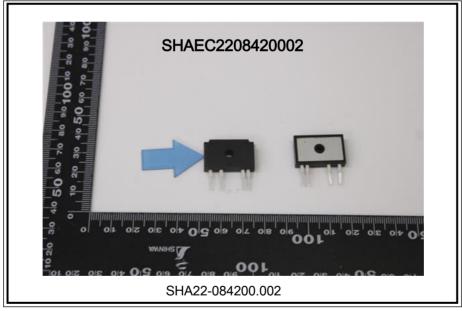


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样品照片:







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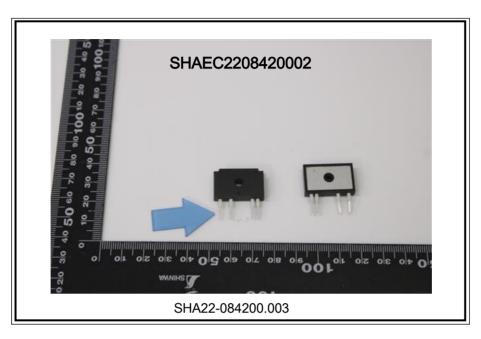
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