

## 检测报告

编号: SHAEC24000195806

日期: 2024年01月19日

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客户名称: 扬州扬杰电子科技股份有限公司

客户地址: 扬州市邗江区荷叶西路6号

样品名称: 光伏二极管

客户参考信息: 1.锡球; 2.有卤塑封料 1; 3.无卤塑封料 1; 4.玻钝芯片; 5.肖特基芯片; 6.油墨; 8.无卤塑封料 3; 10.框架/跳线/引线; 14.铝线/铝带; 16.有卤塑封料 2; 26.锡膏/焊片/焊锡丝; 35.框架(铜) 1; 38.无卤塑封料 8; 42.框架(铜银) 1; 44.框架(铜银) 2; 45.无卤塑封料 12; 46.有卤塑封料 4; 47.跳线

以上样品及信息由客户提供。

SGS 工作编号: SHP24-000085

样品接收时间: 2024年01月03日

检测周期: 2024年01月03日 ~ 2024年01月15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 |
| 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)   | 符合 |
| 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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刘盈妹

Annie Liu 刘盈妹  
批准签署人

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Testing Center - China3<sup>rd</sup> Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn  
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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   | SHA24-0001958-0001.C001 | 银色金属     |
| SN2  | A2   | SHA24-0001958-0001.C002 | 灰色固体     |
| SN3  | A3   | SHA24-0001958-0001.C003 | 灰色固体     |
| SN4  | A4   | SHA24-0001958-0001.C004 | 灰色/黑色固体片 |
| SN5  | A5   | SHA24-0001958-0001.C005 | 彩色固体片    |
| SN6  | A6   | SHA24-0001958-0001.C006 | 银色液体     |
| SN7  | A8   | SHA24-0001958-0001.C008 | 灰色固体     |
| SN8  | A10  | SHA24-0001958-0001.C010 | 铜色金属     |
| SN9  | A14  | SHA24-0001958-0001.C014 | 银色金属丝    |
| SN10 | A16  | SHA24-0001958-0001.C016 | 灰色固体     |
| SN11 | A26  | SHA24-0001958-0001.C026 | 银色金属丝    |
| SN12 | A35  | SHA24-0001958-0001.C035 | 铜色金属     |
| SN13 | A38  | SHA24-0001958-0001.C038 | 灰色固体     |
| SN14 | A42  | SHA24-0001958-0001.C042 | 铜色金属     |
| SN15 | A44  | SHA24-0001958-0001.C044 | 铜色金属     |
| SN16 | A45  | SHA24-0001958-0001.C045 | 灰色固体     |
| SN17 | A46  | SHA24-0001958-0001.C046 | 灰色固体     |
| SN18 | A47  | SHA24-0001958-0001.C047 | 铜色金属     |

**备注:**

- (1) 1 mg/kg = 1 ppm = 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 (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)**



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# 检测报告

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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/AAS, UV-Vis 和 GC-MS 进行分析。

| 检测项目                   | 限值   | 单位    | MDL | A2 | A3 | A4     |
|------------------------|------|-------|-----|----|----|--------|
| 铅 (Pb)                 | 1000 | mg/kg | 2   | ND | ND | 32265▲ |
| 汞 (Hg)                 | 1000 | mg/kg | 2   | ND | ND | ND     |
| 镉 (Cd)                 | 100  | mg/kg | 2   | ND | ND | ND     |
| 六价铬 (Cr(VI))           | 1000 | mg/kg | 8   | ND | ND | ND     |
| 多溴联苯之和 (PBB)           | 1000 | mg/kg | -   | ND | ND | ND     |
| 一溴联苯 (MonoBB)          | -    | mg/kg | 5   | ND | ND | ND     |
| 二溴联苯 (DiBB)            | -    | mg/kg | 5   | ND | ND | ND     |
| 三溴联苯 (TriBB)           | -    | mg/kg | 5   | ND | ND | ND     |
| 四溴联苯 (TetraBB)         | -    | mg/kg | 5   | ND | ND | ND     |
| 五溴联苯 (PentaBB)         | -    | mg/kg | 5   | ND | ND | ND     |
| 六溴联苯 (HexaBB)          | -    | mg/kg | 5   | ND | ND | ND     |
| 七溴联苯 (HeptaBB)         | -    | mg/kg | 5   | ND | ND | ND     |
| 八溴联苯 (OctaBB)          | -    | mg/kg | 5   | ND | ND | ND     |
| 九溴联苯 (NonaBB)          | -    | mg/kg | 5   | ND | ND | ND     |
| 十溴联苯 (DecaBB)          | -    | mg/kg | 5   | ND | ND | ND     |
| 多溴二苯醚之和 (PBDE)         | 1000 | mg/kg | -   | ND | ND | ND     |
| 一溴二苯醚 (MonoBDE)        | -    | mg/kg | 5   | ND | ND | ND     |
| 二溴二苯醚 (DiBDE)          | -    | mg/kg | 5   | ND | ND | ND     |
| 三溴二苯醚 (TriBDE)         | -    | mg/kg | 5   | ND | ND | ND     |
| 四溴二苯醚 (TetraBDE)       | -    | mg/kg | 5   | ND | ND | ND     |
| 五溴二苯醚 (PentaBDE)       | -    | mg/kg | 5   | ND | ND | ND     |
| 六溴二苯醚 (HexaBDE)        | -    | mg/kg | 5   | ND | ND | ND     |
| 七溴二苯醚 (HeptaBDE)       | -    | mg/kg | 5   | ND | ND | ND     |
| 八溴二苯醚 (OctaBDE)        | -    | mg/kg | 5   | ND | ND | ND     |
| 九溴二苯醚 (NonaBDE)        | -    | mg/kg | 5   | ND | ND | ND     |
| 十溴二苯醚 (DecaBDE)        | -    | mg/kg | 5   | ND | ND | ND     |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg | 50  | ND | ND | ND     |
| 邻苯二甲酸丁苄酯 (BBP)         | 1000 | mg/kg | 50  | ND | ND | ND     |
| 邻苯二甲酸二丁酯 (DBP)         | 1000 | mg/kg | 50  | ND | ND | ND     |
| 邻苯二甲酸二异丁酯 (DIBP)       | 1000 | mg/kg | 50  | ND | ND | ND     |

| 检测项目          | 限值   | 单位    | MDL | A5 | A6 | A8 |
|---------------|------|-------|-----|----|----|----|
| 铅 (Pb)        | 1000 | mg/kg | 2   | ND | ND | ND |
| 汞 (Hg)        | 1000 | mg/kg | 2   | ND | ND | ND |
| 镉 (Cd)        | 100  | mg/kg | 2   | ND | ND | ND |
| 六价铬 (Cr(VI))  | 1000 | mg/kg | 8   | ND | ND | ND |
| 多溴联苯之和 (PBB)  | 1000 | mg/kg | -   | ND | ND | ND |
| 一溴联苯 (MonoBB) | -    | mg/kg | 5   | ND | ND | ND |
| 二溴联苯 (DiBB)   | -    | mg/kg | 5   | ND | ND | ND |



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| 检测项目                   | 限值   | 单位    | MDL | A5 | A6 | A8 |
|------------------------|------|-------|-----|----|----|----|
| 三溴联苯 (TriBB)           | -    | mg/kg | 5   | ND | ND | ND |
| 四溴联苯 (TetraBB)         | -    | mg/kg | 5   | ND | ND | ND |
| 五溴联苯 (PentaBB)         | -    | mg/kg | 5   | ND | ND | ND |
| 六溴联苯 (HexaBB)          | -    | mg/kg | 5   | ND | ND | ND |
| 七溴联苯 (HeptaBB)         | -    | mg/kg | 5   | ND | ND | ND |
| 八溴联苯 (OctaBB)          | -    | mg/kg | 5   | ND | ND | ND |
| 九溴联苯 (NonaBB)          | -    | mg/kg | 5   | ND | ND | ND |
| 十溴联苯 (DecaBB)          | -    | mg/kg | 5   | ND | ND | ND |
| 多溴二苯醚之和 (PBDE)         | 1000 | mg/kg | -   | ND | ND | ND |
| 一溴二苯醚 (MonoBDE)        | -    | mg/kg | 5   | ND | ND | ND |
| 二溴二苯醚 (DiBDE)          | -    | mg/kg | 5   | ND | ND | ND |
| 三溴二苯醚 (TriBDE)         | -    | mg/kg | 5   | ND | ND | ND |
| 四溴二苯醚 (TetraBDE)       | -    | mg/kg | 5   | ND | ND | ND |
| 五溴二苯醚 (PentaBDE)       | -    | mg/kg | 5   | ND | ND | ND |
| 六溴二苯醚 (HexaBDE)        | -    | mg/kg | 5   | ND | ND | ND |
| 七溴二苯醚 (HeptaBDE)       | -    | mg/kg | 5   | ND | ND | ND |
| 八溴二苯醚 (OctaBDE)        | -    | mg/kg | 5   | ND | ND | ND |
| 九溴二苯醚 (NonaBDE)        | -    | mg/kg | 5   | ND | ND | ND |
| 十溴二苯醚 (DecaBDE)        | -    | mg/kg | 5   | ND | ND | ND |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg | 50  | ND | ND | ND |
| 邻苯二甲酸丁苄酯 (BBP)         | 1000 | mg/kg | 50  | ND | ND | ND |
| 邻苯二甲酸二丁酯 (DBP)         | 1000 | mg/kg | 50  | ND | ND | ND |
| 邻苯二甲酸二异丁酯 (DIBP)       | 1000 | mg/kg | 50  | ND | ND | ND |

| 检测项目            | 限值   | 单位    | MDL | A16 | A38 | A45 |
|-----------------|------|-------|-----|-----|-----|-----|
| 铅 (Pb)          | 1000 | mg/kg | 2   | ND  | ND  | ND  |
| 汞 (Hg)          | 1000 | mg/kg | 2   | ND  | ND  | ND  |
| 镉 (Cd)          | 100  | mg/kg | 2   | ND  | ND  | ND  |
| 六价铬 (Cr(VI))    | 1000 | mg/kg | 8   | ND  | ND  | ND  |
| 多溴联苯之和 (PBB)    | 1000 | mg/kg | -   | ND  | ND  | ND  |
| 一溴联苯 (MonoBB)   | -    | mg/kg | 5   | ND  | ND  | ND  |
| 二溴联苯 (DiBB)     | -    | mg/kg | 5   | ND  | ND  | ND  |
| 三溴联苯 (TriBB)    | -    | mg/kg | 5   | ND  | ND  | ND  |
| 四溴联苯 (TetraBB)  | -    | mg/kg | 5   | ND  | ND  | ND  |
| 五溴联苯 (PentaBB)  | -    | mg/kg | 5   | ND  | ND  | ND  |
| 六溴联苯 (HexaBB)   | -    | mg/kg | 5   | ND  | ND  | ND  |
| 七溴联苯 (HeptaBB)  | -    | mg/kg | 5   | ND  | ND  | ND  |
| 八溴联苯 (OctaBB)   | -    | mg/kg | 5   | ND  | ND  | ND  |
| 九溴联苯 (NonaBB)   | -    | mg/kg | 5   | ND  | ND  | ND  |
| 十溴联苯 (DecaBB)   | -    | mg/kg | 5   | ND  | ND  | ND  |
| 多溴二苯醚之和 (PBDE)  | 1000 | mg/kg | -   | ND  | ND  | ND  |
| 一溴二苯醚 (MonoBDE) | -    | mg/kg | 5   | ND  | ND  | ND  |
| 二溴二苯醚 (DiBDE)   | -    | mg/kg | 5   | ND  | ND  | ND  |



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| 检测项目                   | 限值   | 单位    | MDL | A16 | A38 | A45 |
|------------------------|------|-------|-----|-----|-----|-----|
| 三溴二苯醚 (TriBDE)         | -    | mg/kg | 5   | ND  | ND  | ND  |
| 四溴二苯醚 (TetraBDE)       | -    | mg/kg | 5   | ND  | ND  | ND  |
| 五溴二苯醚 (PentaBDE)       | -    | mg/kg | 5   | ND  | ND  | ND  |
| 六溴二苯醚 (HexaBDE)        | -    | mg/kg | 5   | ND  | ND  | ND  |
| 七溴二苯醚 (HeptaBDE)       | -    | mg/kg | 5   | ND  | ND  | ND  |
| 八溴二苯醚 (OctaBDE)        | -    | mg/kg | 5   | ND  | ND  | ND  |
| 九溴二苯醚 (NonaBDE)        | -    | mg/kg | 5   | ND  | ND  | ND  |
| 十溴二苯醚 (DecaBDE)        | -    | mg/kg | 5   | ND  | ND  | ND  |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg | 50  | ND  | ND  | ND  |
| 邻苯二甲酸丁苄酯 (BBP)         | 1000 | mg/kg | 50  | ND  | ND  | ND  |
| 邻苯二甲酸二丁酯 (DBP)         | 1000 | mg/kg | 50  | ND  | ND  | ND  |
| 邻苯二甲酸二异丁酯 (DIBP)       | 1000 | mg/kg | 50  | ND  | ND  | ND  |

| 检测项目                   | 限值   | 单位    | MDL | A46 |
|------------------------|------|-------|-----|-----|
| 铅 (Pb)                 | 1000 | mg/kg | 2   | ND  |
| 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 | 5   | ND  |
| 二溴联苯 (DiBB)            | -    | mg/kg | 5   | ND  |
| 三溴联苯 (TriBB)           | -    | mg/kg | 5   | ND  |
| 四溴联苯 (TetraBB)         | -    | mg/kg | 5   | ND  |
| 五溴联苯 (PentaBB)         | -    | mg/kg | 5   | ND  |
| 六溴联苯 (HexaBB)          | -    | mg/kg | 5   | ND  |
| 七溴联苯 (HeptaBB)         | -    | mg/kg | 5   | ND  |
| 八溴联苯 (OctaBB)          | -    | mg/kg | 5   | ND  |
| 九溴联苯 (NonaBB)          | -    | mg/kg | 5   | ND  |
| 十溴联苯 (DecaBB)          | -    | mg/kg | 5   | ND  |
| 多溴二苯醚之和 (PBDE)         | 1000 | mg/kg | -   | ND  |
| 一溴二苯醚 (MonoBDE)        | -    | mg/kg | 5   | ND  |
| 二溴二苯醚 (DiBDE)          | -    | mg/kg | 5   | ND  |
| 三溴二苯醚 (TriBDE)         | -    | mg/kg | 5   | ND  |
| 四溴二苯醚 (TetraBDE)       | -    | mg/kg | 5   | ND  |
| 五溴二苯醚 (PentaBDE)       | -    | mg/kg | 5   | ND  |
| 六溴二苯醚 (HexaBDE)        | -    | mg/kg | 5   | ND  |
| 七溴二苯醚 (HeptaBDE)       | -    | mg/kg | 5   | ND  |
| 八溴二苯醚 (OctaBDE)        | -    | mg/kg | 5   | ND  |
| 九溴二苯醚 (NonaBDE)        | -    | mg/kg | 5   | ND  |
| 十溴二苯醚 (DecaBDE)        | -    | mg/kg | 5   | 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  |



SGS-CSTC (Shanghai) Co., Ltd.  
Testing Center-Chemical Laboratory

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3<sup>rd</sup> Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn

中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t HL (86-21) 61402594 f HL (86-21) 61156899 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## 检测报告

编号: SHAEC24000195806

日期: 2024年01月19日

第6页, 共25页

| 检测项目             | 限值   | 单位    | MDL | A46 |
|------------------|------|-------|-----|-----|
| 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)▲根据客户提供的声明, 编号 A4 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>

**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)**

检测方法: 参考滴定法, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, 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  | A26   |
|------------------|------|--------------------|------|-------|
| 镉 (Cd)           | 100  | mg/kg              | 2    | ND    |
| 铅(Pb)            | 0.1  | %                  | -    | 92.1▲ |
| 汞 (Hg)           | 1000 | mg/kg              | 2    | ND    |
| 六价铬 (Cr(VI))▼    | -    | µg/cm <sup>2</sup> | 0.10 | ND    |
| 多溴联苯之和 (PBB)     | 1000 | mg/kg              | -    | ND    |
| 一溴联苯 (MonoBB)    | -    | mg/kg              | 5    | ND    |
| 二溴联苯 (DiBB)      | -    | mg/kg              | 5    | ND    |
| 三溴联苯 (TriBB)     | -    | mg/kg              | 5    | ND    |
| 四溴联苯 (TetraBB)   | -    | mg/kg              | 5    | ND    |
| 五溴联苯 (PentaBB)   | -    | mg/kg              | 5    | ND    |
| 六溴联苯 (HexaBB)    | -    | mg/kg              | 5    | ND    |
| 七溴联苯 (HeptaBB)   | -    | mg/kg              | 5    | ND    |
| 八溴联苯 (OctaBB)    | -    | mg/kg              | 5    | ND    |
| 九溴联苯 (NonaBB)    | -    | mg/kg              | 5    | ND    |
| 十溴联苯 (DecaBB)    | -    | mg/kg              | 5    | ND    |
| 多溴二苯醚之和 (PBDE)   | 1000 | mg/kg              | -    | ND    |
| 一溴二苯醚 (MonoBDE)  | -    | mg/kg              | 5    | ND    |
| 二溴二苯醚 (DiBDE)    | -    | mg/kg              | 5    | ND    |
| 三溴二苯醚 (TriBDE)   | -    | mg/kg              | 5    | ND    |
| 四溴二苯醚 (TetraBDE) | -    | mg/kg              | 5    | ND    |
| 五溴二苯醚 (PentaBDE) | -    | mg/kg              | 5    | ND    |
| 六溴二苯醚 (HexaBDE)  | -    | mg/kg              | 5    | ND    |
| 七溴二苯醚 (HeptaBDE) | -    | mg/kg              | 5    | ND    |
| 八溴二苯醚 (OctaBDE)  | -    | mg/kg              | 5    | ND    |



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| 检测项目                   | 限值   | 单位    | MDL | A26 |
|------------------------|------|-------|-----|-----|
| 九溴二苯醚 (NonaBDE)        | -    | mg/kg | 5   | ND  |
| 十溴二苯醚 (DecaBDE)        | -    | 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) ▼ = 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;

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 µg/cm²与0.13 µg/cm²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。

(4)▲根据客户提供的声明, 编号A26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(即铅含量等于或大于85%的铅基合金焊料)。

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>

**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 62321-7-1:2015, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

| 检测项目            | 限值   | 单位     | MDL  | A1 | A10 | A14 |
|-----------------|------|--------|------|----|-----|-----|
| 铅 (Pb)          | 1000 | mg/kg  | 2    | 31 | 7   | ND  |
| 汞 (Hg)          | 1000 | mg/kg  | 2    | ND | ND  | ND  |
| 镉 (Cd)          | 100  | mg/kg  | 2    | ND | ND  | ND  |
| 六价铬 (Cr(VI))▼   | -    | µg/cm² | 0.10 | ND | ND  | ND  |
| 多溴联苯之和 (PBB)    | 1000 | mg/kg  | -    | ND | ND  | ND  |
| 一溴联苯 (MonoBB)   | -    | mg/kg  | 5    | ND | ND  | ND  |
| 二溴联苯 (DiBB)     | -    | mg/kg  | 5    | ND | ND  | ND  |
| 三溴联苯 (TriBB)    | -    | mg/kg  | 5    | ND | ND  | ND  |
| 四溴联苯 (TetraBB)  | -    | mg/kg  | 5    | ND | ND  | ND  |
| 五溴联苯 (PentaBB)  | -    | mg/kg  | 5    | ND | ND  | ND  |
| 六溴联苯 (HexaBB)   | -    | mg/kg  | 5    | ND | ND  | ND  |
| 七溴联苯 (HeptaBB)  | -    | mg/kg  | 5    | ND | ND  | ND  |
| 八溴联苯 (OctaBB)   | -    | mg/kg  | 5    | ND | ND  | ND  |
| 九溴联苯 (NonaBB)   | -    | mg/kg  | 5    | ND | ND  | ND  |
| 十溴联苯 (DecaBB)   | -    | mg/kg  | 5    | ND | ND  | ND  |
| 多溴二苯醚之和 (PBDE)  | 1000 | mg/kg  | -    | ND | ND  | ND  |
| 一溴二苯醚 (MonoBDE) | -    | mg/kg  | 5    | ND | ND  | ND  |



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## 检测报告

编号: SHAEC24000195806

日期: 2024年01月19日

第8页, 共25页

| 检测项目                   | 限值   | 单位    | MDL | A1 | A10 | A14 |
|------------------------|------|-------|-----|----|-----|-----|
| 二溴二苯醚 (DiBDE)          | -    | mg/kg | 5   | ND | ND  | ND  |
| 三溴二苯醚 (TriBDE)         | -    | mg/kg | 5   | ND | ND  | ND  |
| 四溴二苯醚 (TetraBDE)       | -    | mg/kg | 5   | ND | ND  | ND  |
| 五溴二苯醚 (PentaBDE)       | -    | mg/kg | 5   | ND | ND  | ND  |
| 六溴二苯醚 (HexaBDE)        | -    | mg/kg | 5   | ND | ND  | ND  |
| 七溴二苯醚 (HeptaBDE)       | -    | mg/kg | 5   | ND | ND  | ND  |
| 八溴二苯醚 (OctaBDE)        | -    | mg/kg | 5   | ND | ND  | ND  |
| 九溴二苯醚 (NonaBDE)        | -    | mg/kg | 5   | ND | ND  | ND  |
| 十溴二苯醚 (DecaBDE)        | -    | mg/kg | 5   | ND | ND  | ND  |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg | 50  | ND | ND  | ND  |
| 邻苯二甲酸丁苄酯 (BBP)         | 1000 | mg/kg | 50  | ND | ND  | ND  |
| 邻苯二甲酸二丁酯 (DBP)         | 1000 | mg/kg | 50  | ND | ND  | ND  |
| 邻苯二甲酸二异丁酯 (DIBP)       | 1000 | mg/kg | 50  | ND | ND  | ND  |

| 检测项目                   | 限值   | 单位                 | MDL  | A35 | A42 | A44 |
|------------------------|------|--------------------|------|-----|-----|-----|
| 铅 (Pb)                 | 1000 | mg/kg              | 2    | 7   | 7   | 8   |
| 汞 (Hg)                 | 1000 | mg/kg              | 2    | ND  | ND  | ND  |
| 镉 (Cd)                 | 100  | mg/kg              | 2    | ND  | ND  | ND  |
| 六价铬 (Cr(VI))▼          | -    | µg/cm <sup>2</sup> | 0.10 | ND  | ND  | ND  |
| 多溴联苯之和 (PBB)           | 1000 | mg/kg              | -    | ND  | ND  | ND  |
| 一溴联苯 (MonoBB)          | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 二溴联苯 (DiBB)            | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 三溴联苯 (TriBB)           | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 四溴联苯 (TetraBB)         | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 五溴联苯 (PentaBB)         | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 六溴联苯 (HexaBB)          | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 七溴联苯 (HeptaBB)         | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 八溴联苯 (OctaBB)          | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 九溴联苯 (NonaBB)          | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 十溴联苯 (DecaBB)          | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 多溴二苯醚之和 (PBDE)         | 1000 | mg/kg              | -    | ND  | ND  | ND  |
| 一溴二苯醚 (MonoBDE)        | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 二溴二苯醚 (DiBDE)          | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 三溴二苯醚 (TriBDE)         | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 四溴二苯醚 (TetraBDE)       | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 五溴二苯醚 (PentaBDE)       | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 六溴二苯醚 (HexaBDE)        | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 七溴二苯醚 (HeptaBDE)       | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 八溴二苯醚 (OctaBDE)        | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 九溴二苯醚 (NonaBDE)        | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 十溴二苯醚 (DecaBDE)        | -    | mg/kg              | 5    | ND  | ND  | ND  |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg              | 50   | ND  | ND  | ND  |
| 邻苯二甲酸丁苄酯 (BBP)         | 1000 | mg/kg              | 50   | ND  | ND  | ND  |



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| 检测项目             | 限值   | 单位    | MDL | A35 | A42 | A44 |
|------------------|------|-------|-----|-----|-----|-----|
| 邻苯二甲酸二丁酯 (DBP)   | 1000 | mg/kg | 50  | ND  | ND  | ND  |
| 邻苯二甲酸二异丁酯 (DIBP) | 1000 | mg/kg | 50  | ND  | ND  | ND  |

| 检测项目                      | 限值   | 单位                 | MDL  | A47 |
|---------------------------|------|--------------------|------|-----|
| 铅 (Pb)                    | 1000 | mg/kg              | 2    | ND  |
| 汞 (Hg)                    | 1000 | mg/kg              | 2    | ND  |
| 镉 (Cd)                    | 100  | mg/kg              | 2    | ND  |
| 六价铬 (Cr(VI)) <sup>▼</sup> | -    | µg/cm <sup>2</sup> | 0.10 | ND  |
| 多溴联苯之和 (PBB)              | 1000 | mg/kg              | -    | ND  |
| 一溴联苯 (MonoBB)             | -    | mg/kg              | 5    | ND  |
| 二溴联苯 (DiBB)               | -    | mg/kg              | 5    | ND  |
| 三溴联苯 (TriBB)              | -    | mg/kg              | 5    | ND  |
| 四溴联苯 (TetraBB)            | -    | mg/kg              | 5    | ND  |
| 五溴联苯 (PentaBB)            | -    | mg/kg              | 5    | ND  |
| 六溴联苯 (HexaBB)             | -    | mg/kg              | 5    | ND  |
| 七溴联苯 (HeptaBB)            | -    | mg/kg              | 5    | ND  |
| 八溴联苯 (OctaBB)             | -    | mg/kg              | 5    | ND  |
| 九溴联苯 (NonaBB)             | -    | mg/kg              | 5    | ND  |
| 十溴联苯 (DecaBB)             | -    | mg/kg              | 5    | ND  |
| 多溴二苯醚之和 (PBDE)            | 1000 | mg/kg              | -    | ND  |
| 一溴二苯醚 (MonoBDE)           | -    | mg/kg              | 5    | ND  |
| 二溴二苯醚 (DiBDE)             | -    | mg/kg              | 5    | ND  |
| 三溴二苯醚 (TriBDE)            | -    | mg/kg              | 5    | ND  |
| 四溴二苯醚 (TetraBDE)          | -    | mg/kg              | 5    | ND  |
| 五溴二苯醚 (PentaBDE)          | -    | mg/kg              | 5    | ND  |
| 六溴二苯醚 (HexaBDE)           | -    | mg/kg              | 5    | ND  |
| 七溴二苯醚 (HeptaBDE)          | -    | mg/kg              | 5    | ND  |
| 八溴二苯醚 (OctaBDE)           | -    | mg/kg              | 5    | ND  |
| 九溴二苯醚 (NonaBDE)           | -    | mg/kg              | 5    | ND  |
| 十溴二苯醚 (DecaBDE)           | -    | mg/kg              | 5    | 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) <sup>▼</sup> =
  - a. 当六价铬的浓度高于0.13 µg/cm<sup>2</sup>时, 样品为阳性, 即含有六价铬;
  - b. 当六价铬的浓度为ND (低于0.10 µg/cm<sup>2</sup>) 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 µg/cm<sup>2</sup>与0.13 µg/cm<sup>2</sup>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。



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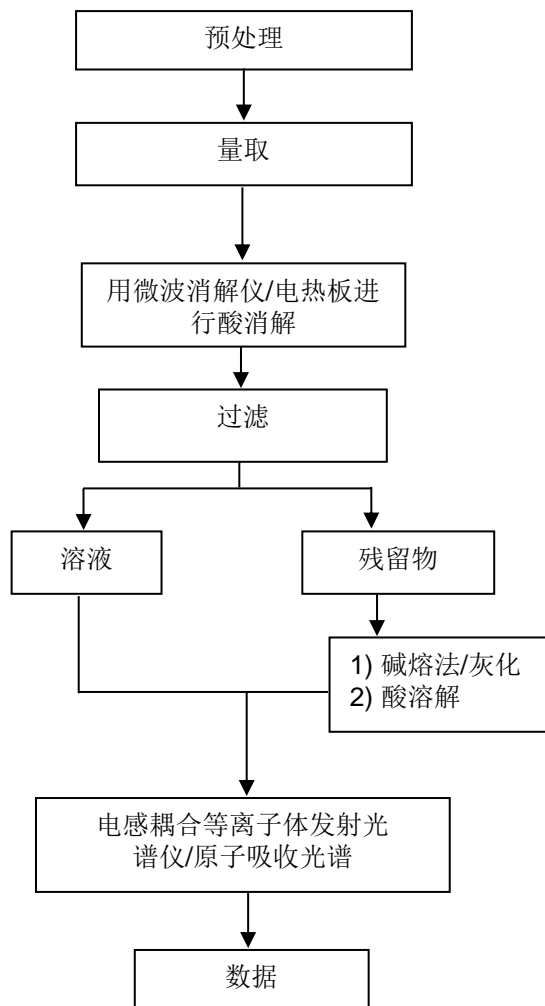
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附件

### 元素检测流程图

样品按照下述流程被完全消解



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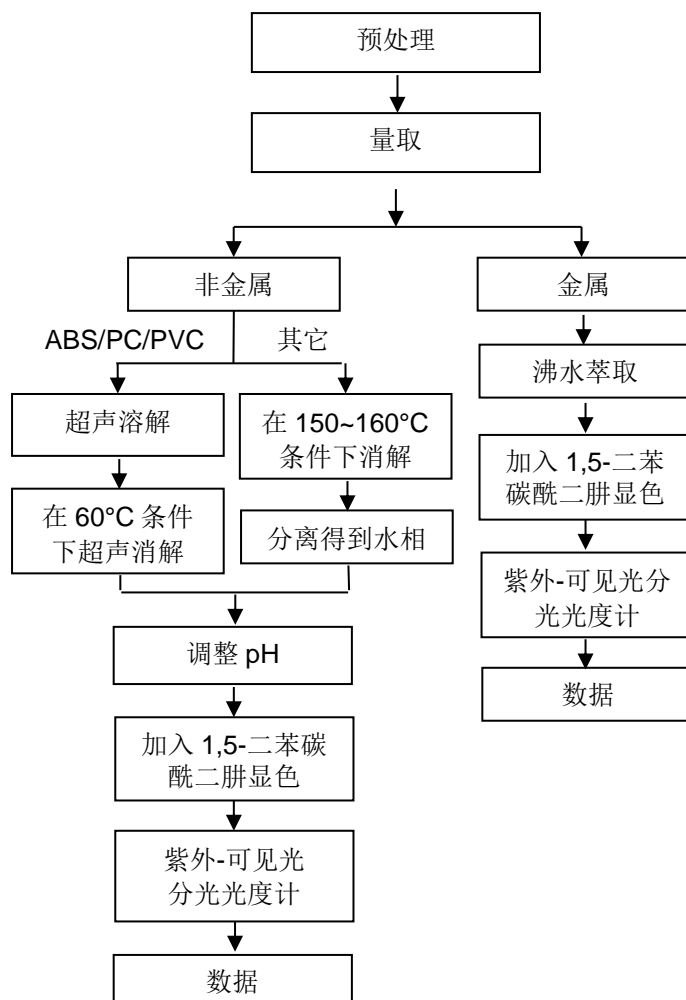
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### 六价铬检测流程图

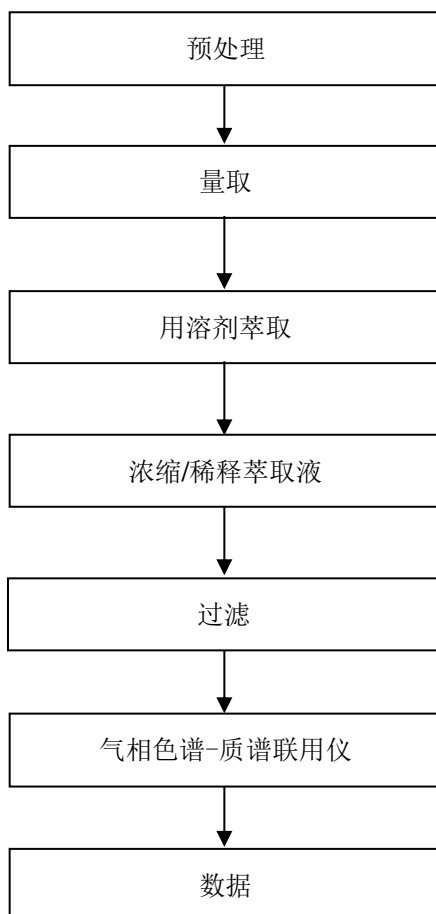


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### PBBs/PBDEs 检测流程图



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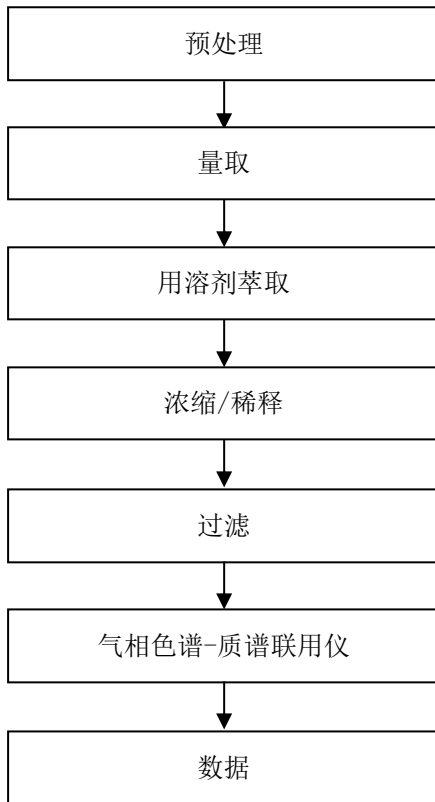
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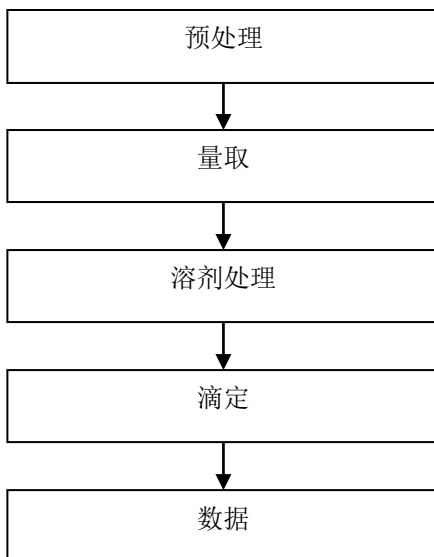
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### Phthalates 检测流程图





### 滴定检测流程图



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## 检测报告

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日期: 2024年01月19日

第 16 页, 共 25 页

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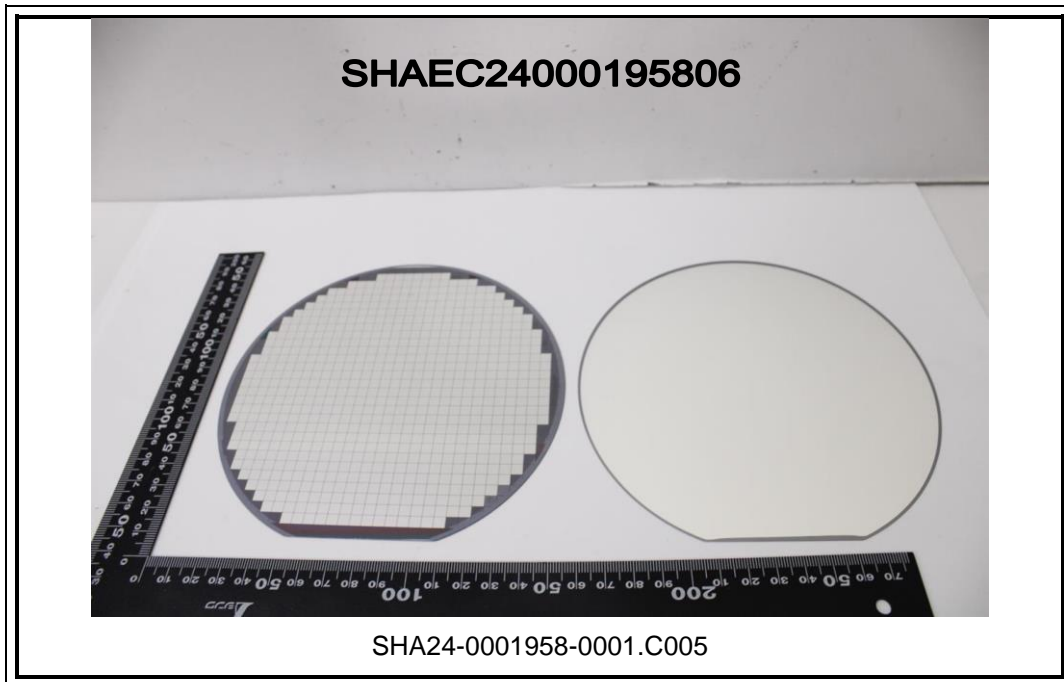
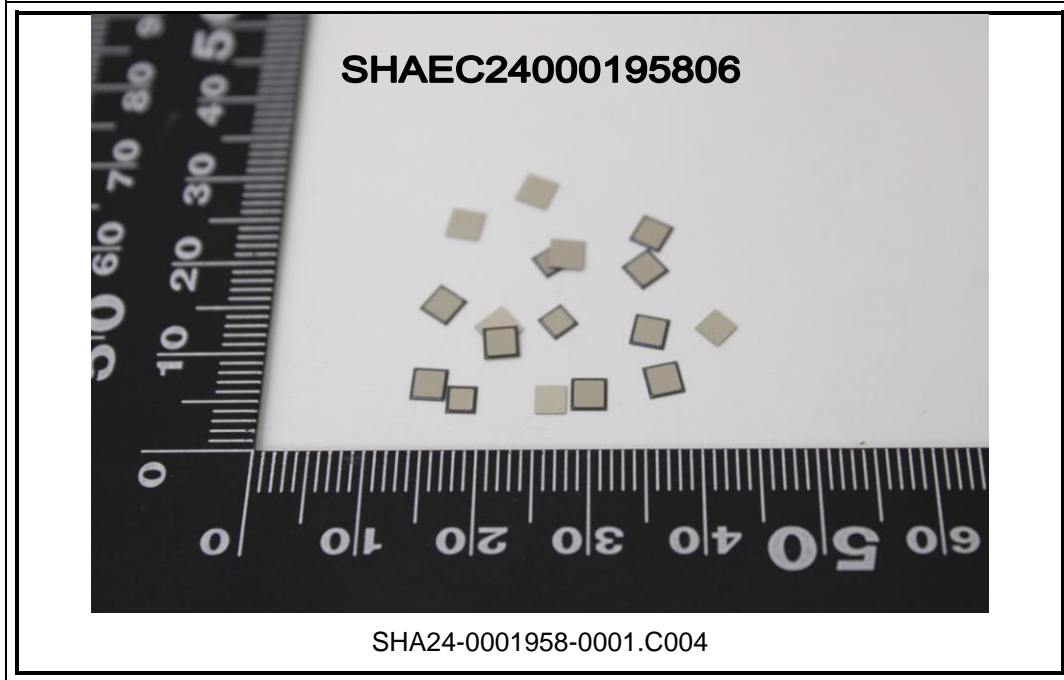


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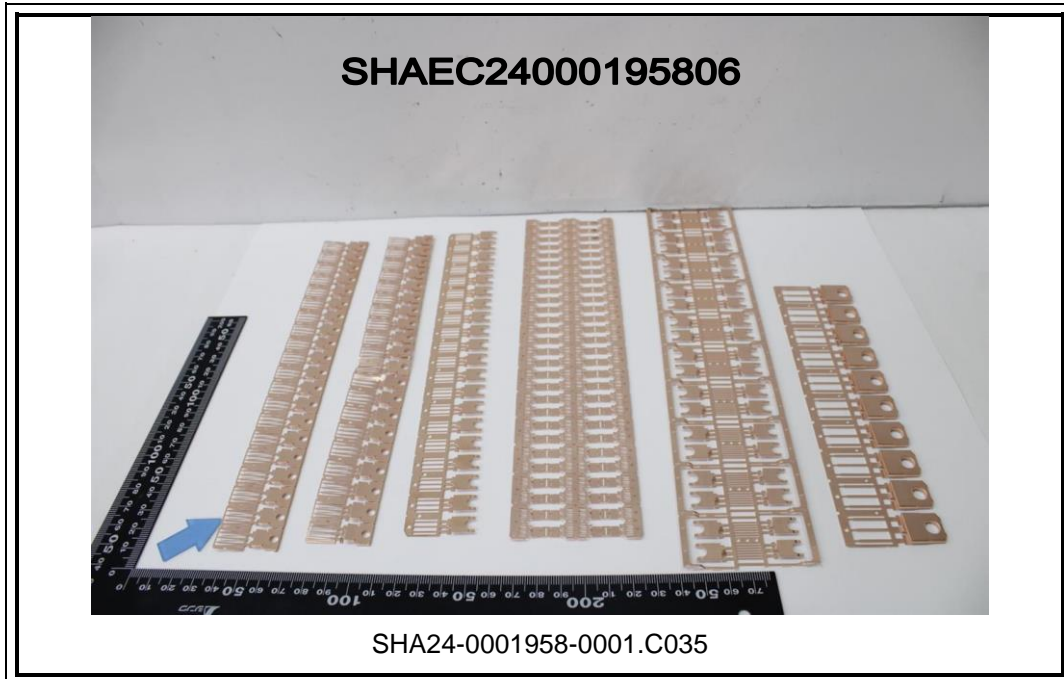




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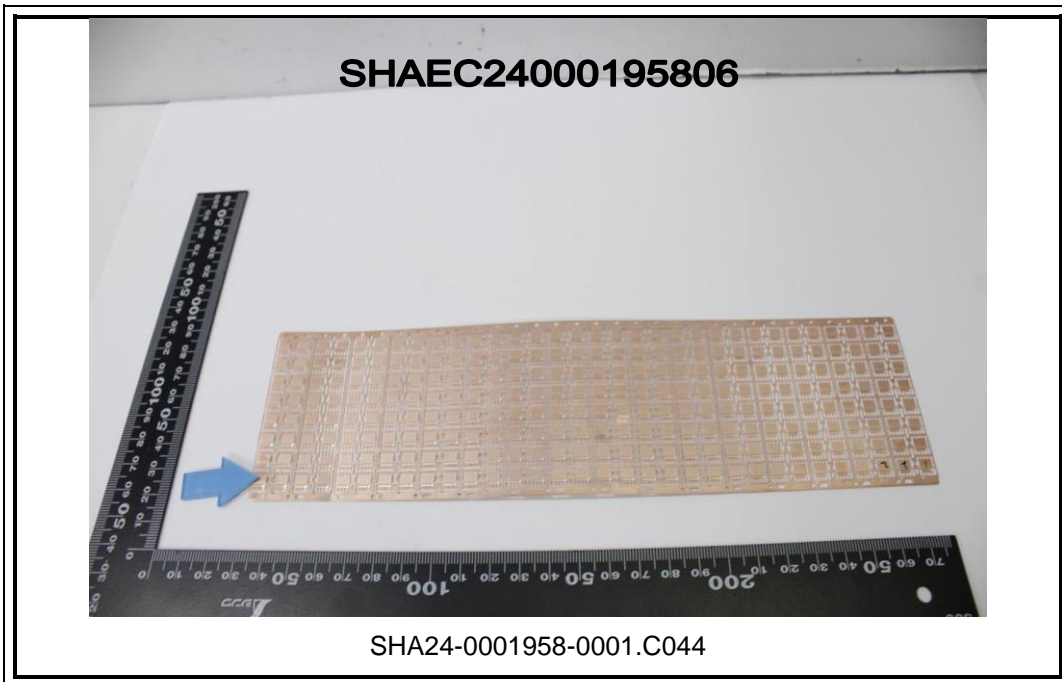
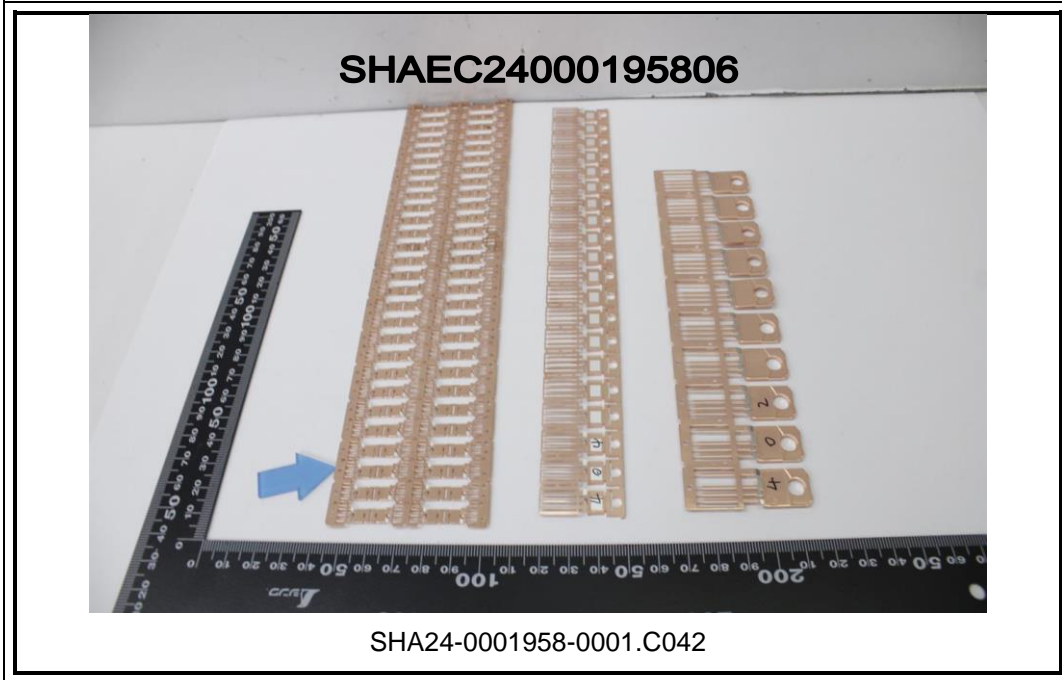
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3<sup>rd</sup> Building, No.889 Yishan Road Xuhui District, Shanghai China 200233    t E&E (86-21) 61402553    f E&E (86-21) 64953679    www.sgsgroup.com.cn  
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SGS-CSTC (Shanghai) Technical Services (Shanghai) Co., Ltd.  
Testing Center-Chemical Laboratory

3<sup>rd</sup> Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn

中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

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SGS-TESTING Technical Services (Shanghai) Co., Ltd.  
Testing Center-Chemical Laboratory

3<sup>rd</sup> Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233

中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn

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