

检测报告

编号: SHAEC24028769404

日期: 2024 年 12 月 30 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: 功率器件

客户参考信息: 1.锡球; 3.无卤塑封料 1; 4.玻钝芯片; 5.肖特基芯片; 7.无卤塑封料 2; 8.无卤塑封料 3; 9.无卤塑封料 4; 10.框架/跳线/引线; 14.铝线/铝带; 26.锡膏/焊片/焊锡丝; 27.铜线; 28.镀金钎铜线; 29.镀钎铜线; 31.框架(铜铁银); 34.无卤塑封料 5; 35.框架(铜) 1; 36.无卤塑封料 6; 37.无卤塑封料 7; 38.无卤塑封料 8; 39.无卤塑封料 9; 40.无卤塑封料 10; 41.无卤塑封料 11; 42.框架(铜银) 1; 43.框架(铜) 2; 44.框架(铜银) 2; 52.无卤塑封料 15; 53.无卤塑封料 16; 54.跳线

以上样品及信息由客户提供。

SGS 工作编号: SHP24-040813

样品接收时间: 2024 年 12 月 16 日

检测周期: 2024 年 12 月 16 日 ~ 2024 年 12 月 23 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 |

通标标准技术服务(上海)有限公司

授权签名

罗萍

Carol Luo 罗萍

批准签署人

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Testing Center - China

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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 | SHA24-0287694-0001.C001 | 银色金属 |
| SN2 | A3 | SHA24-0287694-0001.C003 | 灰色固体 |
| SN3 | A4 | SHA24-0287694-0001.C004 | 灰色/黑色固体片 |
| SN4 | A5 | SHA24-0287694-0001.C005 | 彩色固体片 |
| SN5 | A7 | SHA24-0287694-0001.C007 | 灰色固体 |
| SN6 | A8 | SHA24-0287694-0001.C008 | 灰色固体 |
| SN7 | A9 | SHA24-0287694-0001.C009 | 灰色固体 |
| SN8 | A10 | SHA24-0287694-0001.C010 | 铜色金属 |
| SN9 | A14 | SHA24-0287694-0001.C014 | 银色金属丝 |
| SN10 | A26 | SHA24-0287694-0001.C026 | 银色金属丝 |
| SN11 | A27 | SHA24-0287694-0001.C027 | 铜色金属丝 |
| SN12 | A28 | SHA24-0287694-0001.C028 | 银色金属丝 |
| SN13 | A29 | SHA24-0287694-0001.C029 | 银色金属丝 |
| SN14 | A31 | SHA24-0287694-0001.C031 | 铜色/银色金属 |
| SN15 | A34 | SHA24-0287694-0001.C034 | 灰色固体 |
| SN16 | A35 | SHA24-0287694-0001.C035 | 铜色金属 |
| SN17 | A36 | SHA24-0287694-0001.C036 | 灰色固体 |
| SN18 | A37 | SHA24-0287694-0001.C037 | 灰色固体 |
| SN19 | A38 | SHA24-0287694-0001.C038 | 灰色固体 |
| SN20 | A39 | SHA24-0287694-0001.C039 | 灰色固体 |
| SN21 | A40 | SHA24-0287694-0001.C040 | 灰色固体 |
| SN22 | A41 | SHA24-0287694-0001.C041 | 灰色固体 |
| SN23 | A42 | SHA24-0287694-0001.C042 | 铜色金属 |



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| 样品序号 | 样品编号 | SGS 样品 ID | 样品描述 |
|------|------|-------------------------|------|
| SN24 | A43 | SHA24-0287694-0001.C043 | 铜色金属 |
| SN25 | A44 | SHA24-0287694-0001.C044 | 铜色金属 |
| SN26 | A52 | SHA24-0287694-0001.C052 | 灰色固体 |
| SN27 | A53 | SHA24-0287694-0001.C053 | 灰色固体 |
| SN28 | A54 | SHA24-0287694-0001.C054 | 铜色金属 |

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 | A3 | A4 | A5 |
|------------------|------|-------|-----|----|--------------------|----|
| 铅 (Pb) | 1000 | mg/kg | 2 | ND | 21965 [▲] | 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 | 25 | ND | ND | ND |
| 二溴联苯 (DiBB) | - | mg/kg | 25 | ND | ND | ND |
| 三溴联苯 (TriBB) | - | mg/kg | 25 | ND | ND | ND |
| 四溴联苯 (TetraBB) | - | mg/kg | 25 | ND | ND | ND |
| 五溴联苯 (PentaBB) | - | mg/kg | 25 | ND | ND | ND |
| 六溴联苯 (HexaBB) | - | mg/kg | 25 | ND | ND | ND |
| 七溴联苯 (HeptaBB) | - | mg/kg | 25 | ND | ND | ND |
| 八溴联苯 (OctaBB) | - | mg/kg | 25 | ND | ND | ND |
| 九溴联苯 (NonaBB) | - | mg/kg | 25 | ND | ND | ND |
| 十溴联苯 (DecaBB) | - | mg/kg | 25 | 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 | 25 | ND | ND | ND |
| 二溴二苯醚 (DiBDE) | - | mg/kg | 25 | ND | ND | ND |
| 三溴二苯醚 (TriBDE) | - | mg/kg | 25 | ND | ND | ND |
| 四溴二苯醚 (TetraBDE) | - | mg/kg | 25 | ND | ND | ND |
| 五溴二苯醚 (PentaBDE) | - | mg/kg | 25 | ND | ND | ND |



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检测报告

编号: SHAEC24028769404

日期: 2024年12月30日

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| 检测项目 | 限值 | 单位 | MDL | A3 | A4 | A5 |
|------------------------|------|-------|-----|----|----|----|
| 六溴二苯醚 (HexaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 七溴二苯醚 (HeptaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 八溴二苯醚 (OctaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 九溴二苯醚 (NonaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 十溴二苯醚 (DecaBDE) | - | mg/kg | 25 | 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 | A7 | A8 | A9 |
|------------------------|------|-------|-----|----|----|----|
| 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 | 25 | ND | ND | ND |
| 二溴联苯 (DiBB) | - | mg/kg | 25 | ND | ND | ND |
| 三溴联苯 (TriBB) | - | mg/kg | 25 | ND | ND | ND |
| 四溴联苯 (TetraBB) | - | mg/kg | 25 | ND | ND | ND |
| 五溴联苯 (PentaBB) | - | mg/kg | 25 | ND | ND | ND |
| 六溴联苯 (HexaBB) | - | mg/kg | 25 | ND | ND | ND |
| 七溴联苯 (HeptaBB) | - | mg/kg | 25 | ND | ND | ND |
| 八溴联苯 (OctaBB) | - | mg/kg | 25 | ND | ND | ND |
| 九溴联苯 (NonaBB) | - | mg/kg | 25 | ND | ND | ND |
| 十溴联苯 (DecaBB) | - | mg/kg | 25 | 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 | 25 | ND | ND | ND |
| 二溴二苯醚 (DiBDE) | - | mg/kg | 25 | ND | ND | ND |
| 三溴二苯醚 (TriBDE) | - | mg/kg | 25 | ND | ND | ND |
| 四溴二苯醚 (TetraBDE) | - | mg/kg | 25 | ND | ND | ND |
| 五溴二苯醚 (PentaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 六溴二苯醚 (HexaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 七溴二苯醚 (HeptaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 八溴二苯醚 (OctaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 九溴二苯醚 (NonaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 十溴二苯醚 (DecaBDE) | - | mg/kg | 25 | 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 |



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| 检测项目 | 限值 | 单位 | MDL | A34 | A36 | A37 |
|------------------------|------|-------|-----|-----|-----|-----|
| 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 | 25 | ND | ND | ND |
| 二溴联苯 (DiBB) | - | mg/kg | 25 | ND | ND | ND |
| 三溴联苯 (TriBB) | - | mg/kg | 25 | ND | ND | ND |
| 四溴联苯 (TetraBB) | - | mg/kg | 25 | ND | ND | ND |
| 五溴联苯 (PentaBB) | - | mg/kg | 25 | ND | ND | ND |
| 六溴联苯 (HexaBB) | - | mg/kg | 25 | ND | ND | ND |
| 七溴联苯 (HeptaBB) | - | mg/kg | 25 | ND | ND | ND |
| 八溴联苯 (OctaBB) | - | mg/kg | 25 | ND | ND | ND |
| 九溴联苯 (NonaBB) | - | mg/kg | 25 | ND | ND | ND |
| 十溴联苯 (DecaBB) | - | mg/kg | 25 | 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 | 25 | ND | ND | ND |
| 二溴二苯醚 (DiBDE) | - | mg/kg | 25 | ND | ND | ND |
| 三溴二苯醚 (TriBDE) | - | mg/kg | 25 | ND | ND | ND |
| 四溴二苯醚 (TetraBDE) | - | mg/kg | 25 | ND | ND | ND |
| 五溴二苯醚 (PentaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 六溴二苯醚 (HexaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 七溴二苯醚 (HeptaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 八溴二苯醚 (OctaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 九溴二苯醚 (NonaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 十溴二苯醚 (DecaBDE) | - | mg/kg | 25 | 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 | A38 | A39 | A40 |
|----------------|------|-------|-----|-----|-----|-----|
| 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 | 25 | ND | ND | ND |
| 二溴联苯 (DiBB) | - | mg/kg | 25 | ND | ND | ND |
| 三溴联苯 (TriBB) | - | mg/kg | 25 | ND | ND | ND |
| 四溴联苯 (TetraBB) | - | mg/kg | 25 | ND | ND | ND |
| 五溴联苯 (PentaBB) | - | mg/kg | 25 | ND | ND | ND |
| 六溴联苯 (HexaBB) | - | mg/kg | 25 | ND | ND | ND |



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| 检测项目 | 限值 | 单位 | MDL | A38 | A39 | A40 |
|------------------------|------|-------|-----|-----|-----|-----|
| 七溴联苯 (HeptaBB) | - | mg/kg | 25 | ND | ND | ND |
| 八溴联苯 (OctaBB) | - | mg/kg | 25 | ND | ND | ND |
| 九溴联苯 (NonaBB) | - | mg/kg | 25 | ND | ND | ND |
| 十溴联苯 (DecaBB) | - | mg/kg | 25 | 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 | 25 | ND | ND | ND |
| 二溴二苯醚 (DiBDE) | - | mg/kg | 25 | ND | ND | ND |
| 三溴二苯醚 (TriBDE) | - | mg/kg | 25 | ND | ND | ND |
| 四溴二苯醚 (TetraBDE) | - | mg/kg | 25 | ND | ND | ND |
| 五溴二苯醚 (PentaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 六溴二苯醚 (HexaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 七溴二苯醚 (HeptaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 八溴二苯醚 (OctaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 九溴二苯醚 (NonaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 十溴二苯醚 (DecaBDE) | - | mg/kg | 25 | 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 | A41 | A52 | A53 |
|------------------|------|-------|-----|-----|-----|-----|
| 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 | 25 | ND | ND | ND |
| 二溴联苯 (DiBB) | - | mg/kg | 25 | ND | ND | ND |
| 三溴联苯 (TriBB) | - | mg/kg | 25 | ND | ND | ND |
| 四溴联苯 (TetraBB) | - | mg/kg | 25 | ND | ND | ND |
| 五溴联苯 (PentaBB) | - | mg/kg | 25 | ND | ND | ND |
| 六溴联苯 (HexaBB) | - | mg/kg | 25 | ND | ND | ND |
| 七溴联苯 (HeptaBB) | - | mg/kg | 25 | ND | ND | ND |
| 八溴联苯 (OctaBB) | - | mg/kg | 25 | ND | ND | ND |
| 九溴联苯 (NonaBB) | - | mg/kg | 25 | ND | ND | ND |
| 十溴联苯 (DecaBB) | - | mg/kg | 25 | 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 | 25 | ND | ND | ND |
| 二溴二苯醚 (DiBDE) | - | mg/kg | 25 | ND | ND | ND |
| 三溴二苯醚 (TriBDE) | - | mg/kg | 25 | ND | ND | ND |
| 四溴二苯醚 (TetraBDE) | - | mg/kg | 25 | ND | ND | ND |
| 五溴二苯醚 (PentaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 六溴二苯醚 (HexaBDE) | - | mg/kg | 25 | ND | ND | ND |



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检测报告

编号: SHAEC24028769404

日期: 2024 年 12 月 30 日

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| 检测项目 | 限值 | 单位 | MDL | A41 | A52 | A53 |
|------------------------|------|-------|-----|-----|-----|-----|
| 七溴二苯醚 (HeptaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 八溴二苯醚 (OctaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 九溴二苯醚 (NonaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 十溴二苯醚 (DecaBDE) | - | mg/kg | 25 | 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 |

备注:

- (1) 最大允许限值引用自 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。

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 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 | A10 | A14 |
|------------------|------|--------------------|------|----|-----|-----|
| 铅 (Pb) | 1000 | mg/kg | 2 | 38 | 7 | 6 |
| 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 ² | 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 | 25 | ND | ND | ND |
| 二溴联苯 (DiBB) | - | mg/kg | 25 | ND | ND | ND |
| 三溴联苯 (TriBB) | - | mg/kg | 25 | ND | ND | ND |
| 四溴联苯 (TetraBB) | - | mg/kg | 25 | ND | ND | ND |
| 五溴联苯 (PentaBB) | - | mg/kg | 25 | ND | ND | ND |
| 六溴联苯 (HexaBB) | - | mg/kg | 25 | ND | ND | ND |
| 七溴联苯 (HeptaBB) | - | mg/kg | 25 | ND | ND | ND |
| 八溴联苯 (OctaBB) | - | mg/kg | 25 | ND | ND | ND |
| 九溴联苯 (NonaBB) | - | mg/kg | 25 | ND | ND | ND |
| 十溴联苯 (DecaBB) | - | mg/kg | 25 | 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 | 25 | ND | ND | ND |
| 二溴二苯醚 (DiBDE) | - | mg/kg | 25 | ND | ND | ND |
| 三溴二苯醚 (TriBDE) | - | mg/kg | 25 | ND | ND | ND |
| 四溴二苯醚 (TetraBDE) | - | mg/kg | 25 | ND | ND | ND |
| 五溴二苯醚 (PentaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 六溴二苯醚 (HexaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 七溴二苯醚 (HeptaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 八溴二苯醚 (OctaBDE) | - | mg/kg | 25 | ND | ND | ND |



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检测报告

编号: SHAEC24028769404

日期: 2024 年 12 月 30 日

第 8 页, 共 30 页

| 检测项目 | 限值 | 单位 | MDL | A1 | A10 | A14 |
|------------------------|------|-------|-----|----|-----|-----|
| 九溴二苯醚 (NonaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 十溴二苯醚 (DecaBDE) | - | mg/kg | 25 | 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 | A27 | A28 | A29 |
|------------------------|------|--------------------|------|-----|-----|-----|
| 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))▼ | - | µg/cm ² | 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 | 25 | ND | ND | ND |
| 二溴联苯 (DiBB) | - | mg/kg | 25 | ND | ND | ND |
| 三溴联苯 (TriBB) | - | mg/kg | 25 | ND | ND | ND |
| 四溴联苯 (TetraBB) | - | mg/kg | 25 | ND | ND | ND |
| 五溴联苯 (PentaBB) | - | mg/kg | 25 | ND | ND | ND |
| 六溴联苯 (HexaBB) | - | mg/kg | 25 | ND | ND | ND |
| 七溴联苯 (HeptaBB) | - | mg/kg | 25 | ND | ND | ND |
| 八溴联苯 (OctaBB) | - | mg/kg | 25 | ND | ND | ND |
| 九溴联苯 (NonaBB) | - | mg/kg | 25 | ND | ND | ND |
| 十溴联苯 (DecaBB) | - | mg/kg | 25 | 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 | 25 | ND | ND | ND |
| 二溴二苯醚 (DiBDE) | - | mg/kg | 25 | ND | ND | ND |
| 三溴二苯醚 (TriBDE) | - | mg/kg | 25 | ND | ND | ND |
| 四溴二苯醚 (TetraBDE) | - | mg/kg | 25 | ND | ND | ND |
| 五溴二苯醚 (PentaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 六溴二苯醚 (HexaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 七溴二苯醚 (HeptaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 八溴二苯醚 (OctaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 九溴二苯醚 (NonaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 十溴二苯醚 (DecaBDE) | - | mg/kg | 25 | 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 | A31 | A35 | A42 |
|--------|------|-------|-----|-----|-----|-----|
| 铅 (Pb) | 1000 | mg/kg | 2 | 9 | 7 | 6 |
| 汞 (Hg) | 1000 | mg/kg | 2 | ND | ND | ND |
| 镉 (Cd) | 100 | mg/kg | 2 | ND | ND | ND |



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| 检测项目 | 限值 | 单位 | MDL | A31 | A35 | A42 |
|------------------------|------|--------------------|------|-----|-----|-----|
| 六价铬 (Cr(VI))▼ | - | µg/cm ² | 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 | 25 | ND | ND | ND |
| 二溴联苯 (DiBB) | - | mg/kg | 25 | ND | ND | ND |
| 三溴联苯 (TriBB) | - | mg/kg | 25 | ND | ND | ND |
| 四溴联苯 (TetraBB) | - | mg/kg | 25 | ND | ND | ND |
| 五溴联苯 (PentaBB) | - | mg/kg | 25 | ND | ND | ND |
| 六溴联苯 (HexaBB) | - | mg/kg | 25 | ND | ND | ND |
| 七溴联苯 (HeptaBB) | - | mg/kg | 25 | ND | ND | ND |
| 八溴联苯 (OctaBB) | - | mg/kg | 25 | ND | ND | ND |
| 九溴联苯 (NonaBB) | - | mg/kg | 25 | ND | ND | ND |
| 十溴联苯 (DecaBB) | - | mg/kg | 25 | 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 | 25 | ND | ND | ND |
| 二溴二苯醚 (DiBDE) | - | mg/kg | 25 | ND | ND | ND |
| 三溴二苯醚 (TriBDE) | - | mg/kg | 25 | ND | ND | ND |
| 四溴二苯醚 (TetraBDE) | - | mg/kg | 25 | ND | ND | ND |
| 五溴二苯醚 (PentaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 六溴二苯醚 (HexaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 七溴二苯醚 (HeptaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 八溴二苯醚 (OctaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 九溴二苯醚 (NonaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 十溴二苯醚 (DecaBDE) | - | mg/kg | 25 | 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 | A43 | A44 | A54 |
|----------------|------|--------------------|------|-----|-----|-----|
| 铅 (Pb) | 1000 | mg/kg | 2 | 13 | ND | 11 |
| 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 ² | 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 | 25 | ND | ND | ND |
| 二溴联苯 (DiBB) | - | mg/kg | 25 | ND | ND | ND |
| 三溴联苯 (TriBB) | - | mg/kg | 25 | ND | ND | ND |
| 四溴联苯 (TetraBB) | - | mg/kg | 25 | ND | ND | ND |
| 五溴联苯 (PentaBB) | - | mg/kg | 25 | ND | ND | ND |
| 六溴联苯 (HexaBB) | - | mg/kg | 25 | ND | ND | ND |
| 七溴联苯 (HeptaBB) | - | mg/kg | 25 | ND | ND | ND |
| 八溴联苯 (OctaBB) | - | mg/kg | 25 | ND | ND | ND |
| 九溴联苯 (NonaBB) | - | mg/kg | 25 | ND | ND | ND |



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| 检测项目 | 限值 | 单位 | MDL | A43 | A44 | A54 |
|------------------------|------|-------|-----|-----|-----|-----|
| 十溴联苯 (DecaBB) | - | mg/kg | 25 | 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 | 25 | ND | ND | ND |
| 二溴二苯醚 (DiBDE) | - | mg/kg | 25 | ND | ND | ND |
| 三溴二苯醚 (TriBDE) | - | mg/kg | 25 | ND | ND | ND |
| 四溴二苯醚 (TetraBDE) | - | mg/kg | 25 | ND | ND | ND |
| 五溴二苯醚 (PentaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 六溴二苯醚 (HexaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 七溴二苯醚 (HeptaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 八溴二苯醚 (OctaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 九溴二苯醚 (NonaBDE) | - | mg/kg | 25 | ND | ND | ND |
| 十溴二苯醚 (DecaBDE) | - | mg/kg | 25 | 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 |

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。

检测方法: 参考滴定法, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 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 | A26 |
|----------------|------|--------|------|-------|
| 铅(Pb) | 0.1 | % | - | 92.5▲ |
| 汞(Hg) | 1000 | mg/kg | 2 | ND |
| 镉(Cd) | 100 | mg/kg | 2 | ND |
| 六价铬 (Cr(VI))▼ | - | µg/cm² | 0.10 | 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 |



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| 检测项目 | 限值 | 单位 | MDL | A26 |
|------------------------|------|-------|-----|-----|
| 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 |
| 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:

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 b. 当六价格的浓度为ND (低于0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价格。
 c. 当六价格的浓度介于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格, 因不同个体的样品表面差异可能会影响测定结果。

▲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>

▲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)-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。

更多豁免相关信息, 可以从以下链接获取:

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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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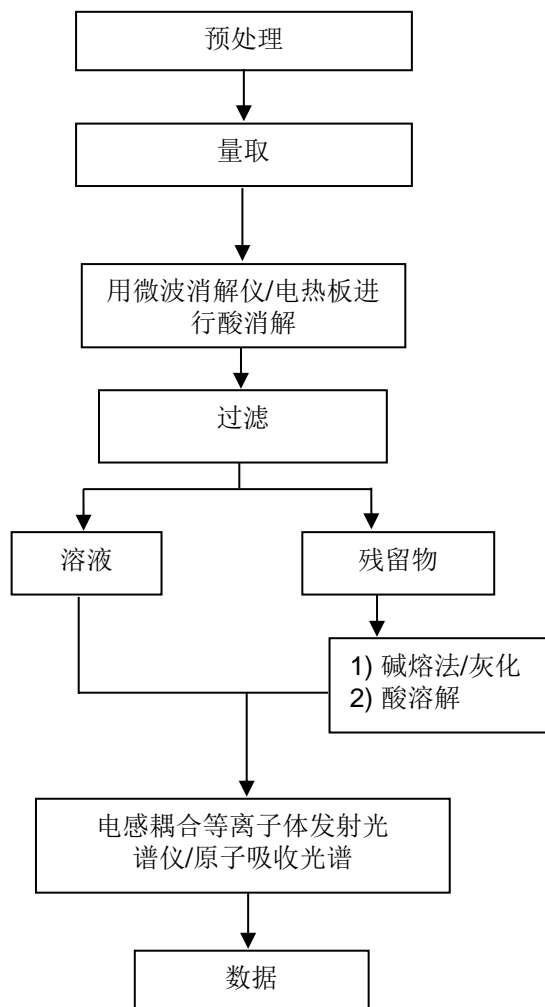
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附件

元素检测流程图

样品按照下述流程被完全消解



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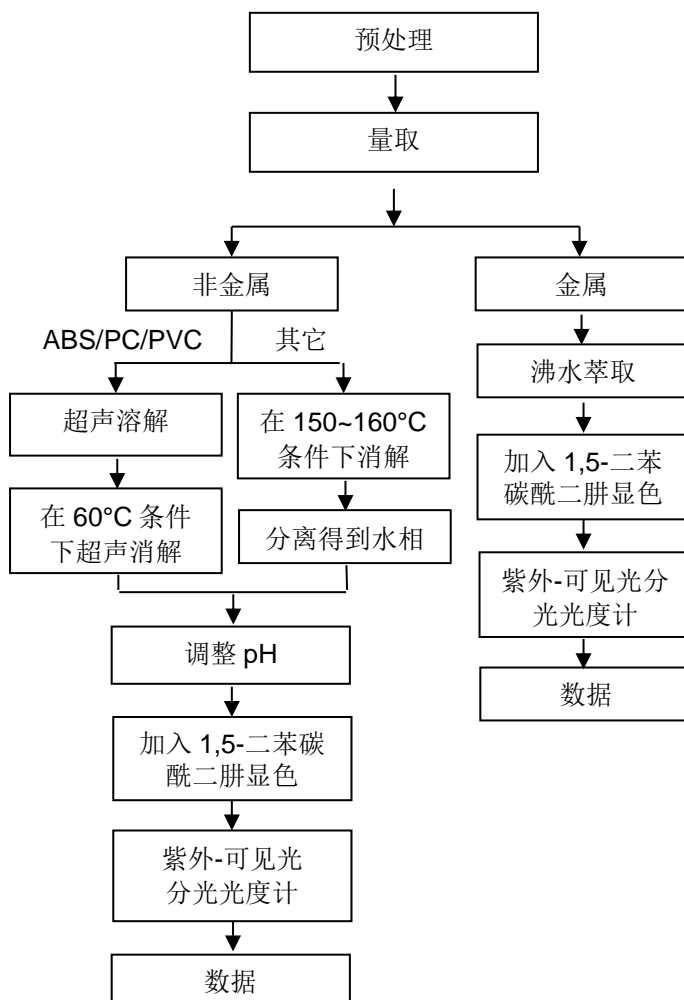
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六价铬检测流程图



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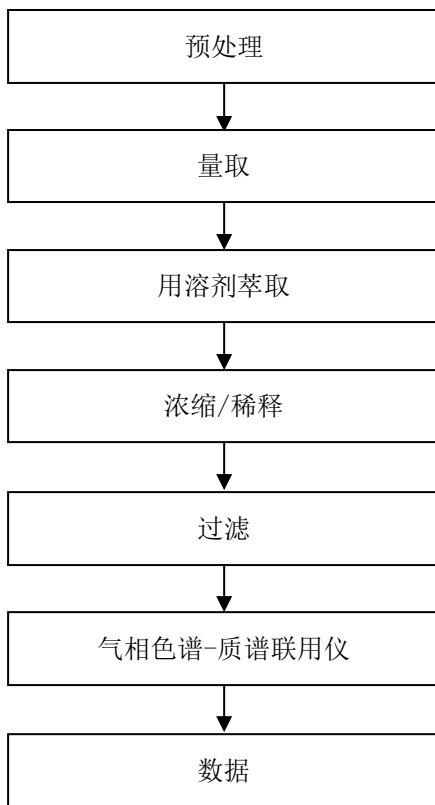
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PBB/PBDE/Phthalates 检测流程图



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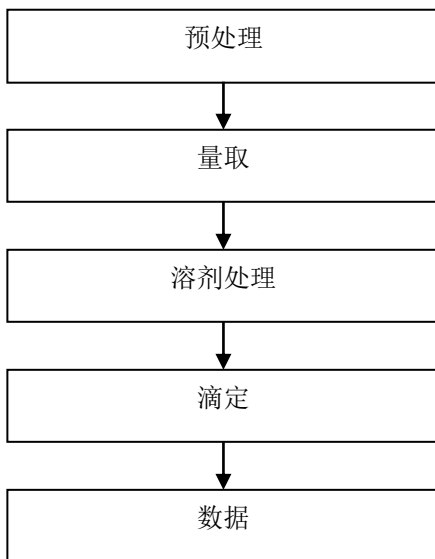
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滴定检测流程图



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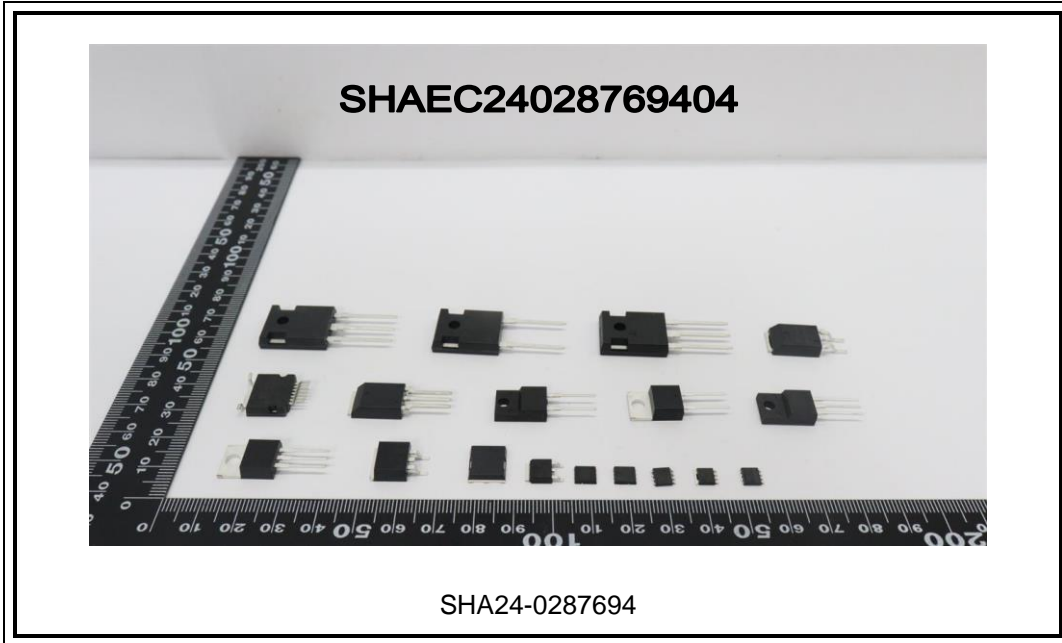
检测报告

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日期: 2024 年 12 月 30 日

第 16 页, 共 30 页

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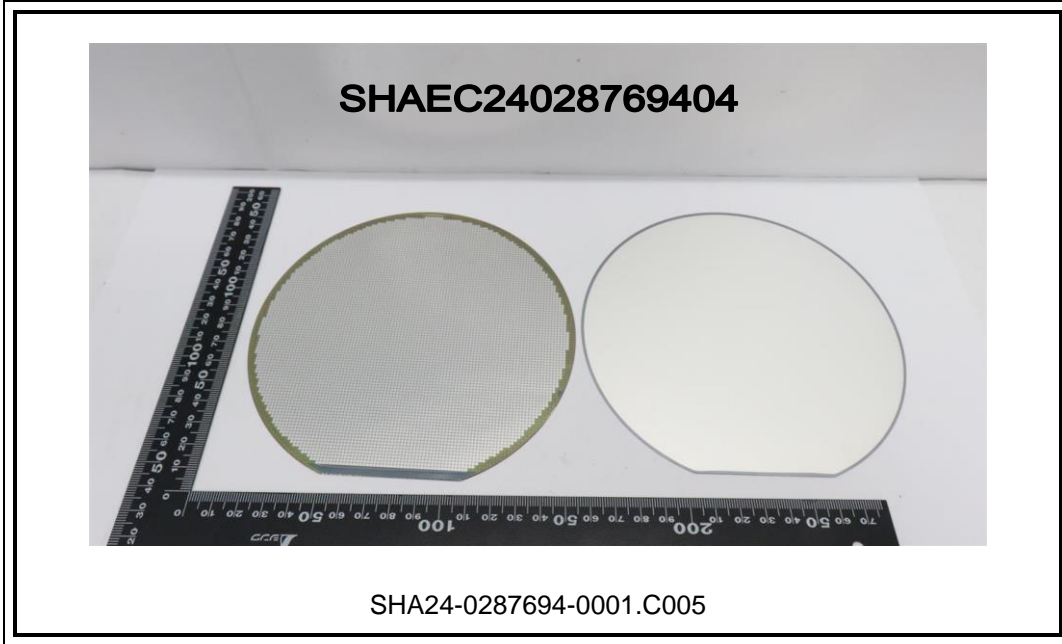
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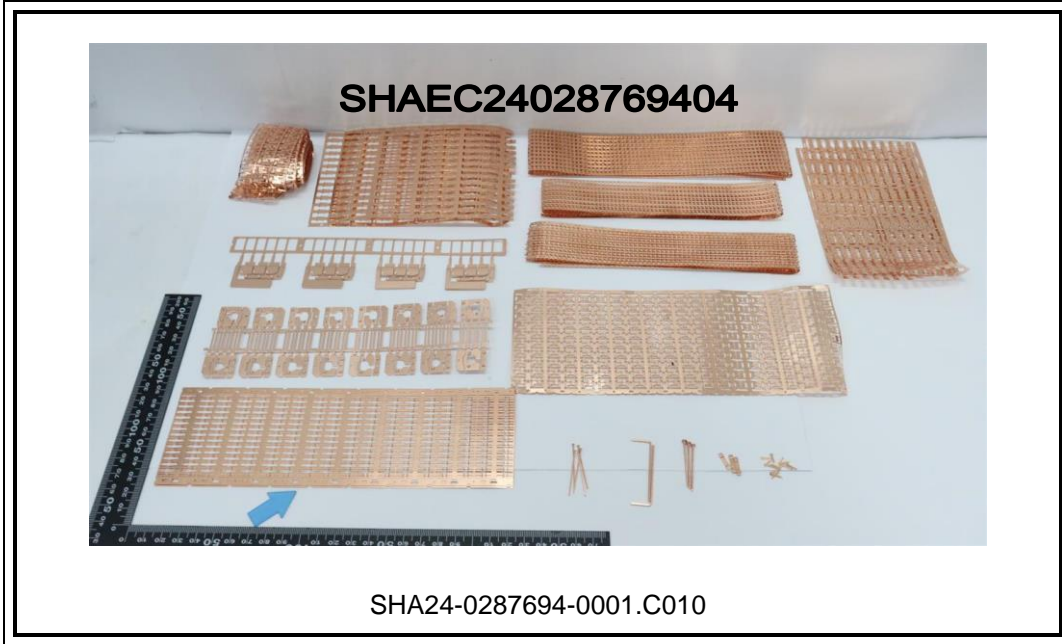
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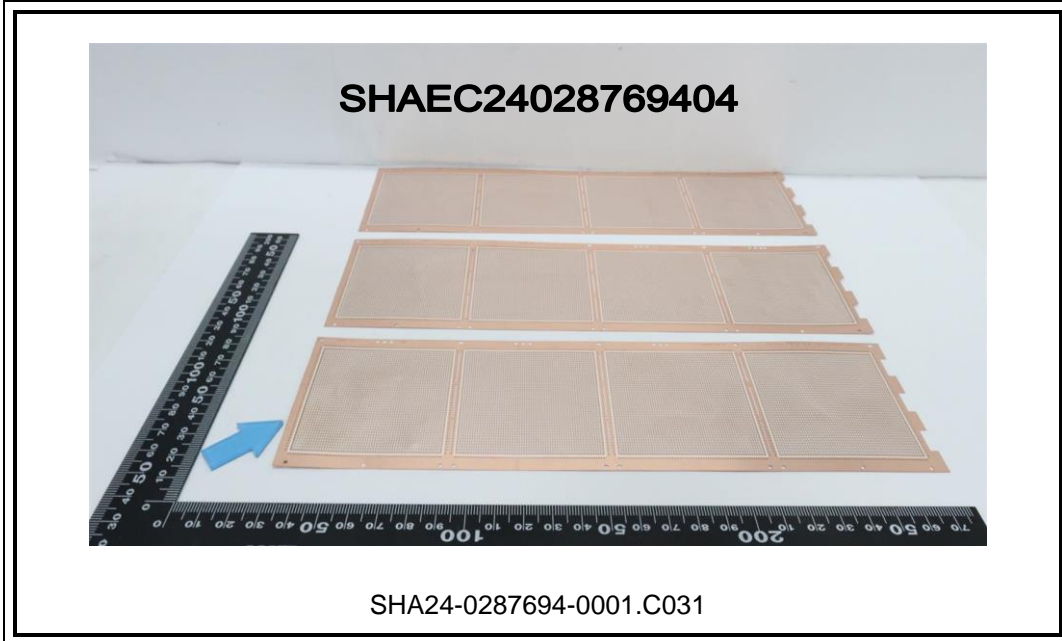
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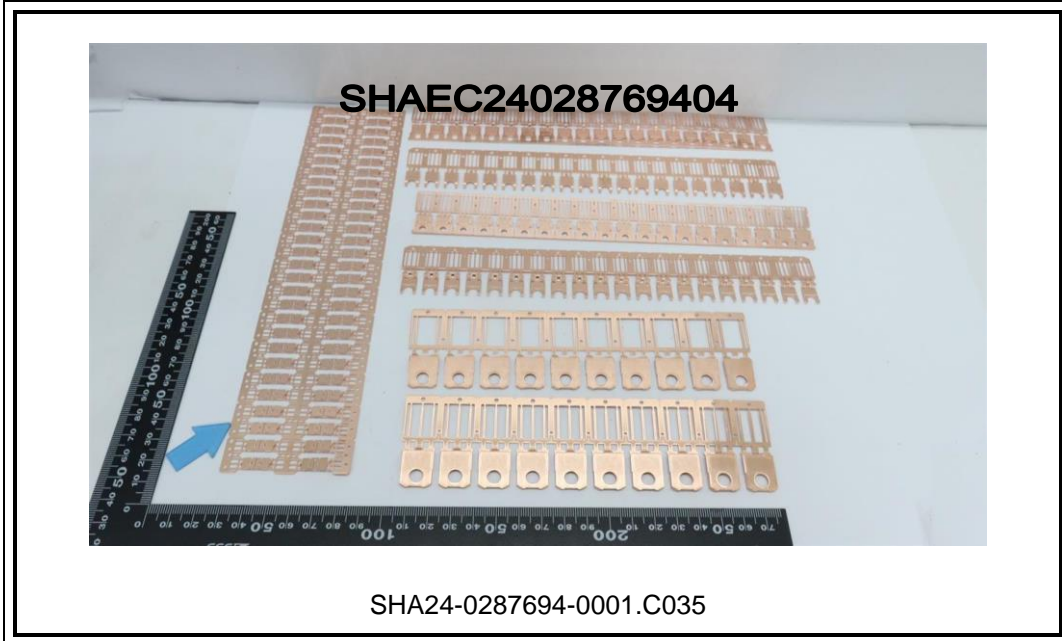
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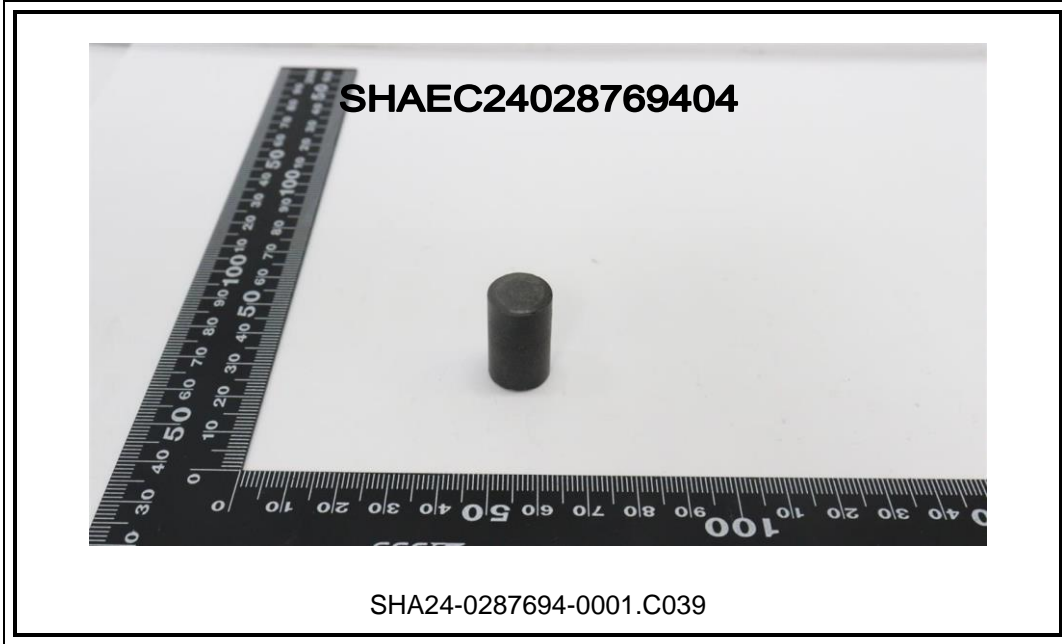
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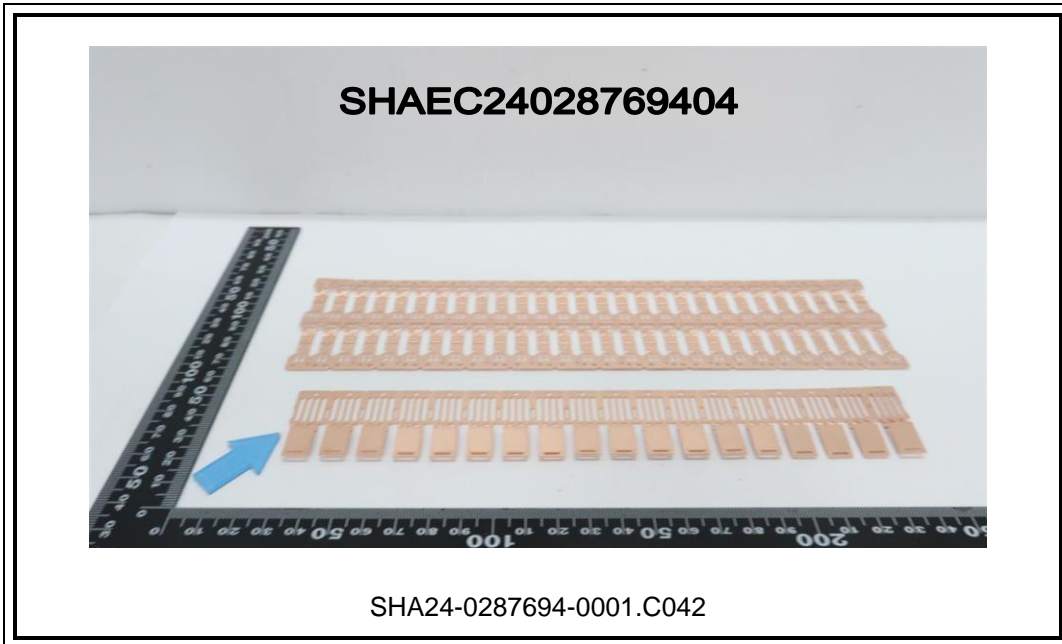
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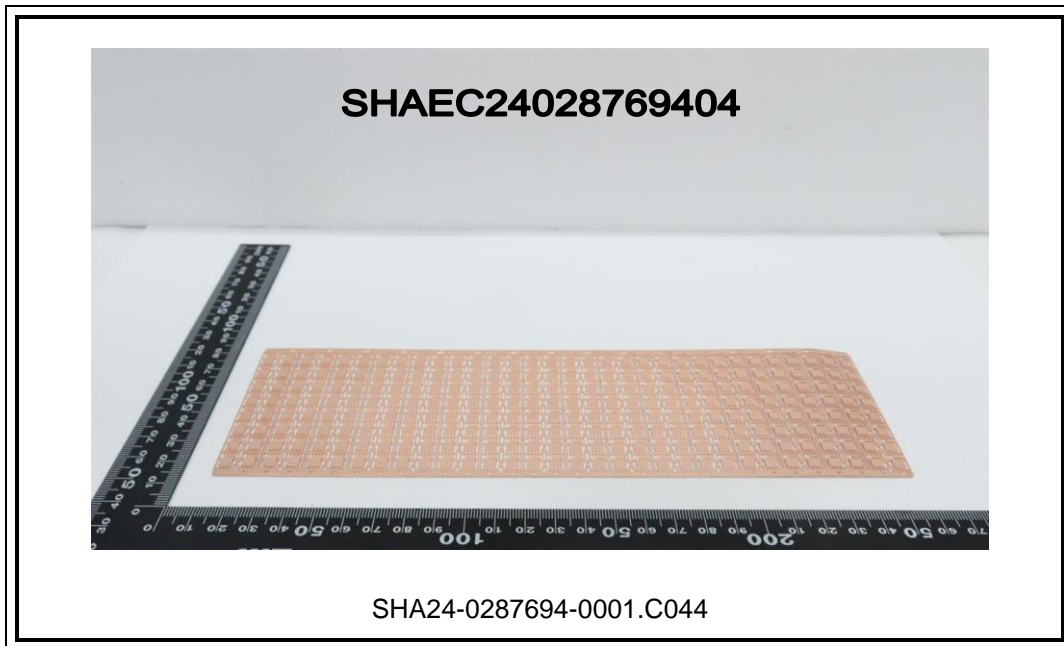
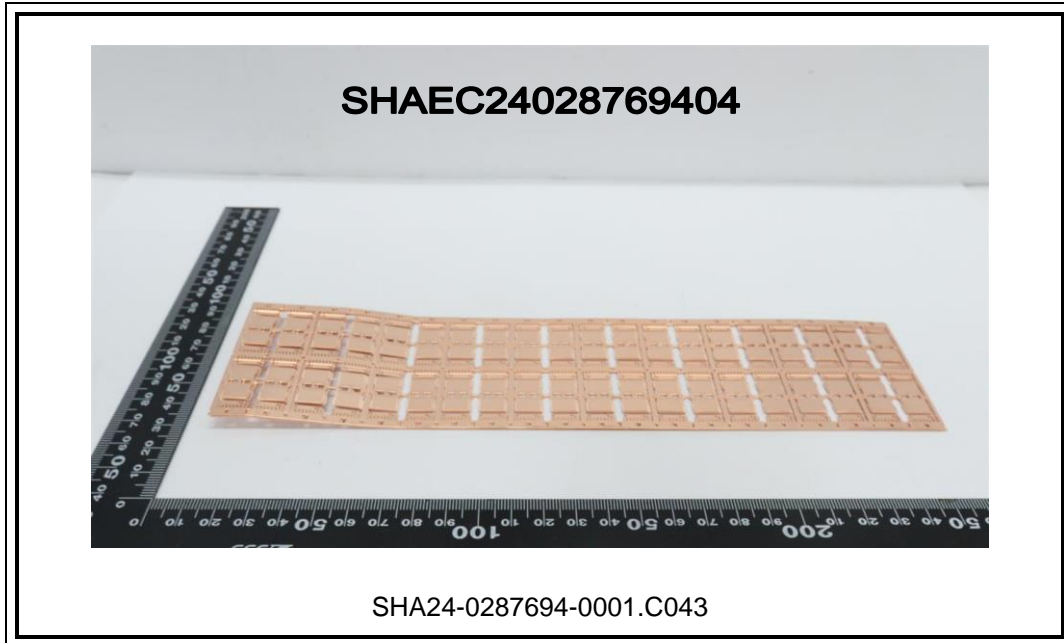
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