

检测报告 编号: SHAEC23010796702 日期: 2023年07月27日 第1页,共11页

客户名称: 江苏捷捷微电子股份有限公司

客户地址: 江苏省启东市经济开发区钱塘江路 3000 号

样品名称: SOP-8

客户参考信息: 2510、0402、0603、DFN0603-2L、DFN1006-2L、DFN1006-3L、DFN10x15-5L、DFN10x15-5L、DFN1610-2L、DFN1610-6L、

DFN2010-5L、DFN2010-8L、DFN2020-2L、DFN2020-3L、DFN2020-6L、DFN2020-6L-XX、DFN2020-8L、DFN2510-10L、DFN2626-10L、DFN2x2-3L、DFN2x2-6L、DFN2x2-6L-XX、DFN3.0x3.0-8L、DFN3.3x3.3-8L、DFN3.3x3.3-8L、DFN3030-8L、DFN3030-8L、DFN3030-8L-XX、DFN3030-12L、DFN3033-2L、DFN3033-8L、DFN3810-9L、DFN3x3-8L-XX、DFN4120-10L、DFN5060-8L、DFN5060-8L-XX、DFN5515-18L、DFN5x6-8L(Dual)、DFN5x6-8L-XX、DFN8080-2L、DFN8080-4L、DFN8x8-2L、DFN8x8-4L-XX、DriveJM-34、DriveJM-62、DriveJM-DC、DriveJM-E1、DriveJM-E2、DriveJM-EC、DriveJM-ED、DriveJM-H1、DriveJM-H2、FBP-02C-A、LSOP-4、PDFN3.3x3.3-8L、PDFN3x3-8L、PDFN3x3-8L、PDFN3x3-8L-XX、PDFN5x6-8L 、PDFN5x6-8L-XX、PowerJE10x12、PowerJE5x6、PowerJE7x8、PowerJE8x8、PPTC、SGD0201、SGD0402、SOD-123 、SOD-123FL、SOD-323 、SOD-323 、SOD

SGD0402 、SOD-123 、SOD-123FL 、SOD-123FLT 、SOD-323 、SOD-323F 、SOD-323FL 、SOD-523 、SOD-723 、SOD-923 、SOP-10 、SOP-16 、SOP-4 、SOP-5 、SOP-7 、SOP-8 、SOT-143 、SOT-143-XX 、SOT-223 、SOT-223-XX 、SOT-227 、SOT-227-XX 、SOT-23 、SOT-23-XX 、SOT-323 、SOT-323-XX 、SOT-353 、SOT-353-XX 、SOT-363 、SOT-363-XX 、SOT-523 、SOT-523-XX 、SOT-563 、SOT-563-XX 、SOT-723 、SOT-723-XX 、SOT-82 、SOT-89-XX 、SOT-89R-XX 、SSOP-16 、SSOP-4 、

TO-252-XX、TSSOP-8、WSOP-6 以上样品及信息由客户提供。

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SGS 工作编号: SHP23-008300 样品接收时间: 2023 年 07 月 21 日

检测周期: 2023年07月21日~2023年07月27日

通标标准技术服务(上海)有限公司

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Jenny Lan 兰柳珍 批准签署人 SGS 1

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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(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-乙基已基)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、镉和六价铬	符合
卤素	见检测结果
聚氯乙烯 (PVC)	见检测结果

检测结果:

检测部件外观描述:

1=0.4111 11 / 1 / 2 G 4 F 1			
样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA23-0107967-0001.C001	黑色本体
SN2	A2	SHA23-0107967-0001.C002	银色金属引脚

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(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-乙基已基)酯 (DEHP)和邻苯二甲酸二异丁酯(DIBP)

参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 检测方法: 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	A1
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	ND
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(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯(TriBB)	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	A1
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(PBDEs)	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。

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬

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, AAS 和 UV-Vis 进行分析。

检测项目	限值	单位	MDL	A2
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	8
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。



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- (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测试时样品含六价铬的状态。

卤素

参考 EN 14582:2016, 采用 IC 进行分析。 检测方法:

检测项目	单位	MDL	A1
氟 (F)	mg/kg	20	ND
氯 (CI)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

聚氯乙烯 (PVC)

检测方法: 参考 SGS 内部方法,采用 FTIR/HATR 进行分析。

检测项目	A1
聚氯乙烯 (PVC)	阴性

备注:

(1) 阴性=未检测到, 阳性=已检测到。

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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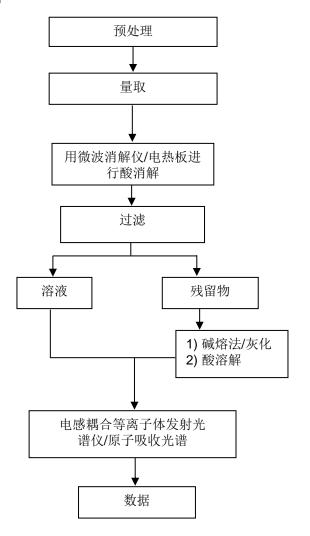
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附件

元素检测流程图

样品按照下述流程被完全消解





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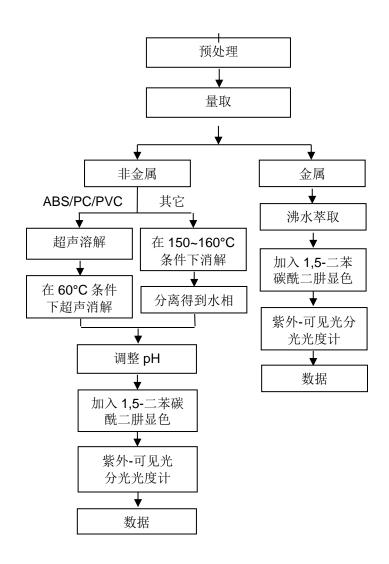


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六价铬检测流程图





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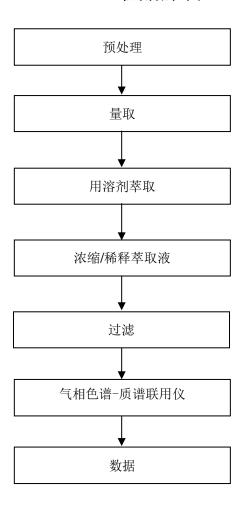


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PBBs/PBDEs 检测流程图





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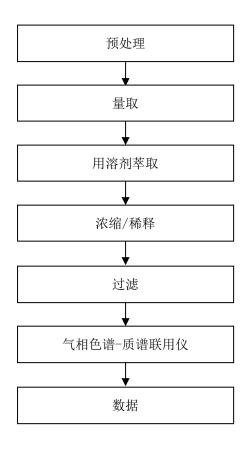


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Phthalates 检测流程图





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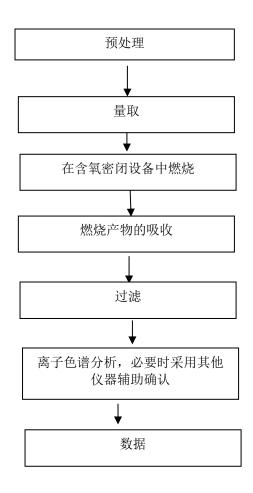


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卤素检测流程图





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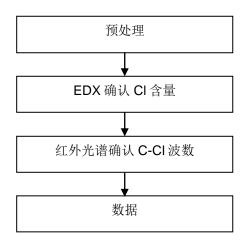


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PVC 检测流程图





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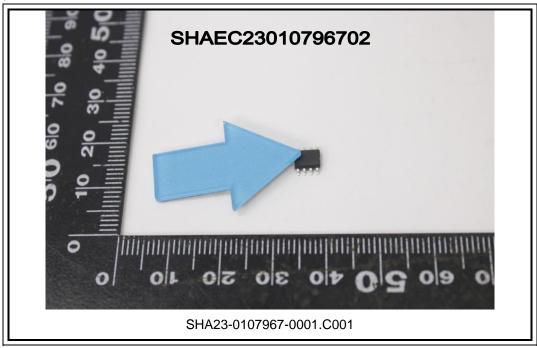


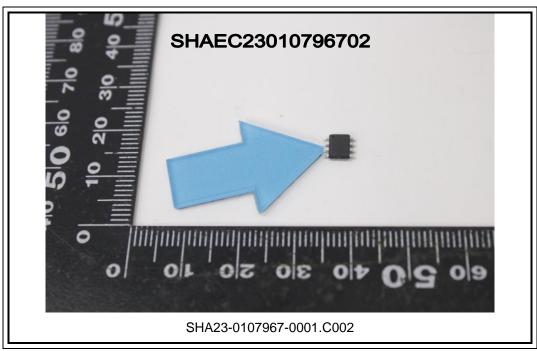
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