

检测报告 编号: SHAEC25016639102

日期: 2025 年 07月 09 日

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
- 型号: SOP-8
- 客户参考信息**:**

2510 、0402 、0603 、DFN0603-2L 、DFN1006-2L 、DFN1006-3L 、 DFN10x15-5L 、DFN10x15-5L-XX 、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-XX 、 DFN3020-10L 、 DFN3030-8L 、 DFN3030-8L-XX 、 DFN3030-12L、DFN3333-2L、DFN3333-8L、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 、DIP-5、DriveJM-34、DriveJM-62、DriveJM-DC、DriveJM-E1、DriveJM-E2、DriveJM-EC、DriveJM-ED、DriveJM-H1、 DriveJM-H2、F3、FBP-02C-A、IGBT-34mm、LSOP-4、PDFN3.3x3.3-8L、 PDFN3x3-8L 、 PDFN3x3-8L-XX 、 PDFN5x6-8L 、 PDFN5x6-8L-XX 、 PowerJE10x12、PowerJE5x6、PowerJE7x8、PowerJE8x8、PPTC、 SGD0201 、SGD0402 、SMD-5、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-247iL-XX TO-252-XX TSSOP-8 WSOP-6

以上样品及信息由客户提供。

SGS 工作编号:	SHP25-022373	
样品接收时间:	2025年07月03日	

通标标准技术服务(上海)有限公司 授权签名

Jenny Lan 兰柳珍 批准签署人





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日期: 2025 年 07 月 09 日

检测周期: 2025年07月03日~2025年07月09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。

编号: SHAEC25016639102

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、镉和六价铬	符合
聚氯乙烯 (PVC)	见检测结果
卤素	见检测结果

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	SHA25-0166391-0001.C001	黑色本体
SN2	A2	SHA25-0166391-0001.C002	银色金属引脚

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	A1
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	25	ND
二溴联苯 (DiBB)	-	mg/kg	25	ND



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检测项目	限值	单位	MDL	A1
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
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:

(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
铅 (Pb)	1000	mg/kg	2	9
示 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	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。

(2) IEC 62321系列等同于 EN 62321系列。



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第4页,共10页

- (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。

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。

卤素

检测方法: 参考 EN 14582:2016,采用 IC 进行分析。

检测项目	单位	MDL	A1
氟 (F)	mg/kg	20	ND
氯 (Cl)	mg/kg	50	ND
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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元素检测流程图

样品按照下述流程被完全消解





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附件

六价铬检测流程图





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PBB/PBDE/Phthalates 检测流程图





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PVC 检测流程图





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卤素检测流程图





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