

检测报告

编号: SZXEC25000069802

日期: 2025 年 01 月 14 日

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客户名称: 江苏固得沃克微电子科技有限公司

客户地址: 江苏省盐城市盐城经济技术开发区赣江路 3 号 1 栋

样品名称: 半导体元器件

型号: 1N4007WS

客户参考信息: SMA SMAF SMB SMBF SMC SOD123 SOD123FL SOD323 SOD523
SOD923 SOT-23 SOT23-3L SOT323 SOT523 SOT89 SOT223 DFN0603
DFN1006 DFN1610 DFN3*3 DFN5*6 TO-277 TO-252 TO-263 TO252-4L
TO-220 TO-220AB TO-220AC ITO-220AB ITO-220AC TO-247 TO-3P A-405
DO-15 DO-27 DO-35 DO-41 R-1 R-3 R-6 LL34 MBF MBM MBS MDS LBS
ABS TBS ABF UMB UMSB KMBF ULBF HBS DBS D3K DB-1 KBP KBL GBL
GBJ KBJ KBU GBU WOL GBP KBPC3-8A KBPC10-50A GBPC GBPC-W
KBPC-W S25-VB BR-35 SKBPC SOP-8 SMD-4 DIP-4 DO-213AA DO-213AB
DO-218AB GF5045 TO-92 TO-126 TO-251 PDFN3*3 PDFN5*6 SOP-4
SOT23-6 eSOP-8 SOP-16 eTSSOP-20 MSOP-8 TSSOP-14 SOT23-5
QFN-16 MSOP-10 TSSOP-20 TSSOP-28 TSSOP-16 TSSOP-24 QFN-32
QFN-40

以上样品及信息由客户提供。

SGS 工作编号: SZP25-001067

样品接收时间: 2025 年 01 月 08 日

检测周期: 2025 年 01 月 08 日 ~ 2025 年 01 月 14 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。

通标标准技术服务有限公司深圳分公司
授权签名

石常福

Ford Shi 石常福
批准签署人

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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

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	SZX25-0000698-0001.C001	“半导体元器件”

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	64383▲
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
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



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检测项目	限值	单位	MDL	A1
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。

备注 ▲: 根据客户提供的声明, 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>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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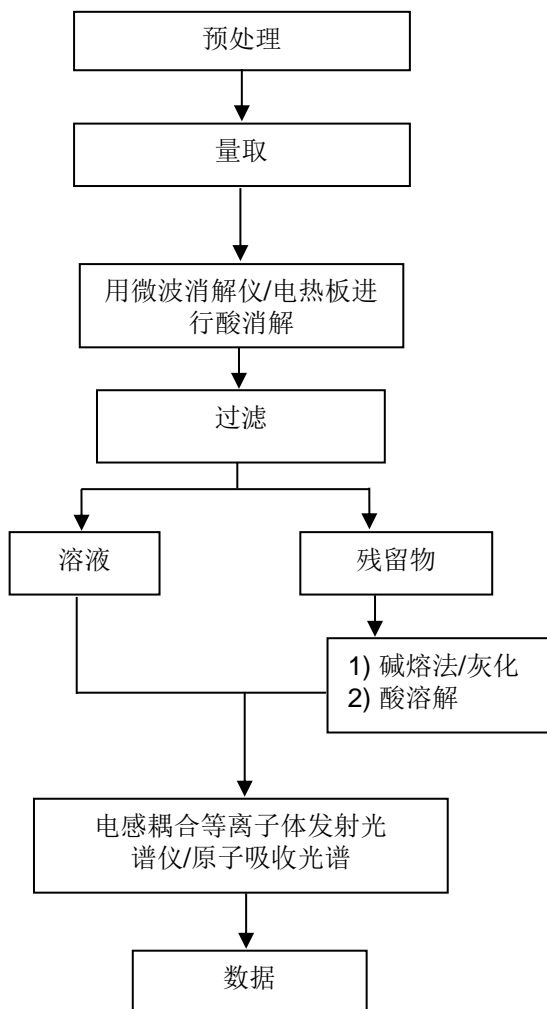
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元素检测流程图

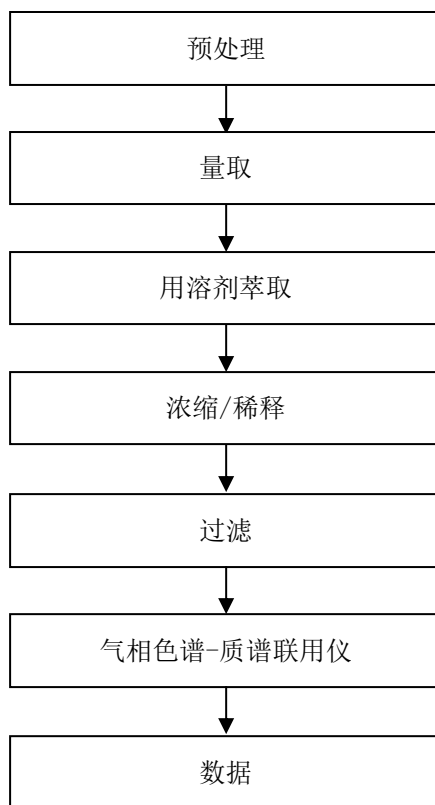
样品按照下述流程被完全消解



六价铬检测流程图



PBB/PBDE/Phthalates 检测流程图



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Shenzhen Branch Inspection & Testing Services Laboratory

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