

检测报告

编号: SZXEC23002073604

日期: 2023年09月05日

第1页, 共9页

客户名称: 同芯科技(广东)有限公司
客户地址: 广东省东莞市寮步镇石龙坑金龙街39号8906室

样品名称: 半导体器件
型号: 半导体器件
客户参考信息: 请见附件
以上样品及信息由客户提供。

SGS工作编号: SZP23-016604
样品接收时间: 2023年08月29日
检测周期: 2023年08月29日~2023年09月04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(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

通标标准技术服务有限公司深圳分公司
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Mescal Ye 叶晓键
批准签署人

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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	SZX23-0020736-0001.C001	“半导体器件”

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-乙基己基)酯 (DEHP)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, 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	A1
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	34178▲
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
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



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检测项目	限值	单位	MDL	A1
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, 编号 A1 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、玻璃或陶瓷基复合元件。

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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附件

元素检测流程图

样品按照下述流程被完全消解



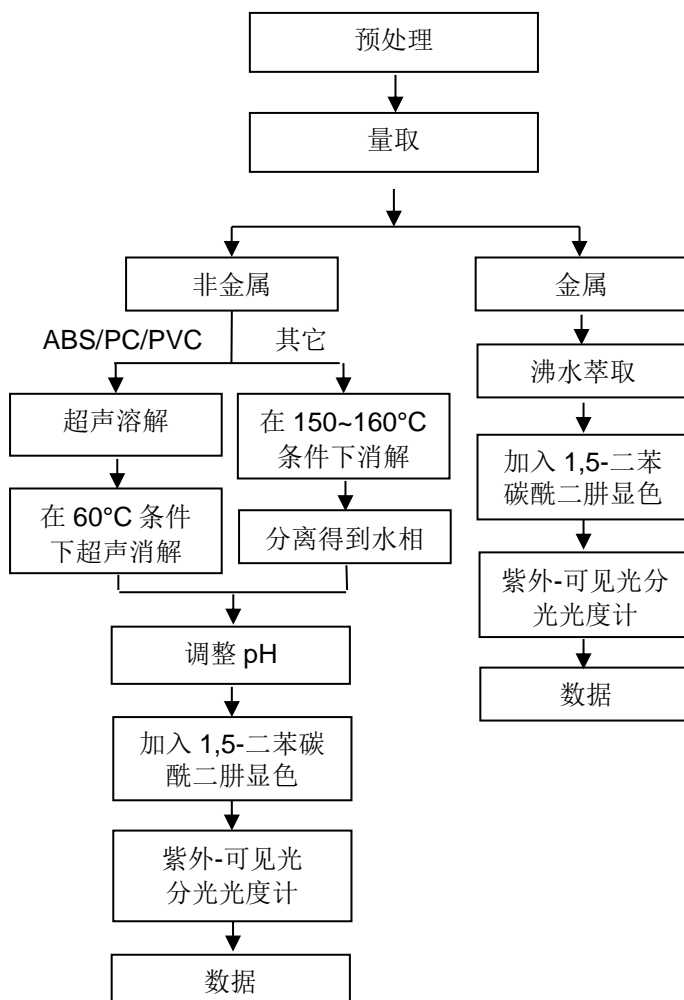
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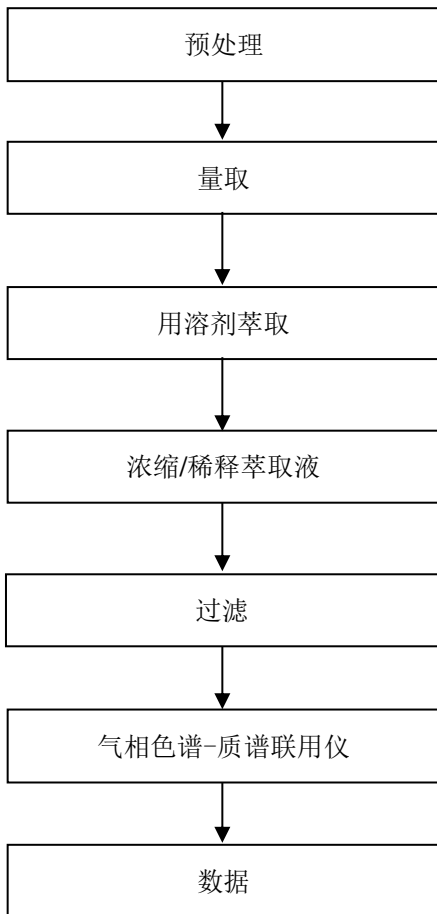
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六价铬检测流程图



PBBs/PBDEs 检测流程图



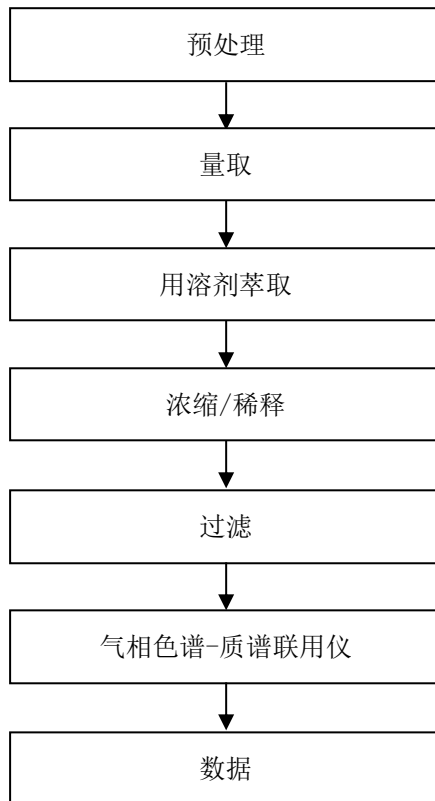
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Phthalates 检测流程图



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DO-34(GLASS),DO-35(GLASS),DO-41(GLASS),DO-213AA,DO-213AB,DO-218AB,LL-34,LL-41,
MiniMELF,
SOT-23,SOT-23-3L,,SOT-23-5L,SOT-23-6L,SOT-323,SOT-343,SOT-353,SOT-363,SOT-523,SOT-553,
SOT-563,SOT-723,SOT-223-2L,SOT-223-3L,SOT-89-2L,SOT-89-3L,SOT-89-5L,SOT-252,SOT-143,SOT-883,
0402,0603,SOD-123,SOD-123FL,SOD-123H1,SOD-123HT,SOD-123S,SOD-123T,SOD-123W,SOD-126,
SOD-323,SOD-323FLSOD-323W,SOD-523,SOD-723,SOD-923,SOD-882,SC-59,SC-89.SOPseries,DFNseries,
PDFNseries,QFNseries,WQFNseries,ESOPseries,TOLLA-8,TSSOP-8.DSMA/DO-214AC,SMA/DO-214AC,
SMA-HST,SMA-L,SMA-S,SMB/DO-214AA,SMF,SMAF,SMBF,SMCF,SMB-HS,SMB-S,SMC/DO-214AB.
TO-220AB,ITO-220AB,TO-220AC,ITO-220AC,TO-220A,TO-220B,TO-220C,TO-220K,TO-220S, TO-220,
TO-220F,TO-220ABW,TO-227A,TO-220FP-2L,TO-220FP-3L,TO-251CW,TO-220CW,TO-220FCW,TO-220FW, TO-
247AC,TO-247AB,TO-247S,TO-247-2L,TO-247-4L,TO-247Plus,TO-3P,TO-251,TO-251S,TO-251W,
TO-252,TO-252K,TO-252W,TO-252-3L,TO-252-4L,TO-253,TO-262,TO-262C,TO-263,TO-263W,TO-263AB,
TO-263C-2L,TO-263C-3L,TO-263S-2L,TO-263S-3L,TO-263-3L,TO-263-5L,TO-263-6L,TO-277B,TO-92,
TO-92S,TO-92L,TO-92LK,TO-92L,TO-92MOD,TO-126F,TO-126P,TO-126H,TO-126T,TO-126B4,TO-126B5.
ABF,ABS,DBF,LB,TMBF,DBM,DBS,DFS,TBS,D3K,DB-1 ,MBS,MSB ,MSBL,MBF ,MBM,UMB,UMSB,STSB,
D3K,HBS,GBJ,GBL,GBP,GBPC,GBPC-W,GBU,KBU,KBJ,KBL,KBP,KBPC,KBPC-3,KBPC-35,KBPC-50,KBPC-6,KBPC-
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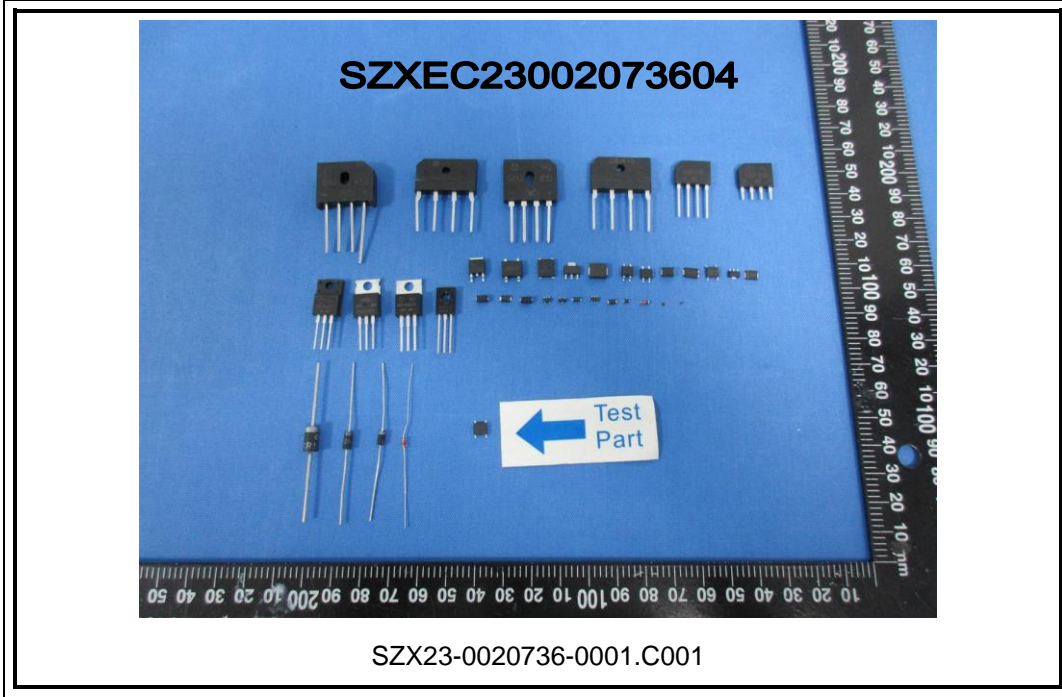
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