

测试报告 No. SHAEC2113111904 日期: 2021年07月05日 第1页,共11页

森美特半导体有限公司 高雄县永安乡永安工业区永工一路28号

以下测试之样品是由申请者所提供及确认:二极管

SGS工作编号: SP21-019138 - SH

型号: **SMD**

客户参考信息: DO-214AC DO-214AA

> 、DO-214AB、DO-218AB、SMAF、SMBF、SOD-123FL、SOD-323 SOT-23 SOT-89 MBS MBF LL41 TO-277 TO-252 TO-263

SOD-523、SOD-723、SOD-923、LL34、ABS、SOP-4、TO-269AA、SOT-23-

6、SOT-363、SOT-223

样品接收日期: 2021年06月25日

测试周期: 2021年06月25日 - 2021年07月05日

测试要求: 根据客户要求测试

测试方法: 请参见下一页 测试结果: 请参见下一页

基于所送样品进行的测试,镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯 结论:

醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯 (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))的 测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值

要求。

通标标准技术服务(上海)有限公司 授权签名

Sue Sheng盛雯舒 批准签署人





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测试报告 No. SHAEC2113111904 日期: 2021年07月05日 第2页,共11页

测试结果:

测试样品描述:

| 样品编号 | SGS样品ID | 描述 |
|------|------------------|------|
| SN1 | SHA21-131119.001 | 银色金属 |
| SN2 | SHA21-131119.002 | 铜色金属 |
| SN3 | SHA21-131119.003 | 黑色固体 |

备注:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法: 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。

| 测试项目 | <u>限值</u> | <u>单位</u> | <u>MDL</u> | <u>003</u> |
|----------------|-----------|-----------|------------|------------|
| 镉(Cd) | 100 | mg/kg | 2 | ND |
| 铅(Pb) | 1000 | mg/kg | 2 | 6 |
| 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 | - | mg/kg | 5 | ND |
| 二溴联苯 | - | mg/kg | 5 | ND |
| 三溴联苯 | - | mg/kg | 5 | ND |
| 四溴联苯 | - | mg/kg | 5 | ND |
| 五溴联苯 | - | mg/kg | 5 | ND |
| 六溴联苯 | - | mg/kg | 5 | ND |
| 七溴联苯 | - | mg/kg | 5 | ND |
| 八溴联苯 | - | mg/kg | 5 | ND |
| 九溴联苯 | - | mg/kg | 5 | ND |
| 十溴联苯 | - | mg/kg | 5 | ND |
| 多溴二苯醚之和(PBDEs) | 1000 | mg/kg | - | ND |
| 一溴二苯醚 | - | mg/kg | 5 | ND |
| 二溴二苯醚 | - | mg/kg | 5 | ND |
| | | | | |



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|------|---------------------|-----------------|----------|
| | | | |

| 测试项目 | <u>限值</u> | <u>单位</u> | <u>MDL</u> | <u>003</u> |
|-----------------------|-----------|-----------|------------|------------|
| 三溴二苯醚 | - | mg/kg | 5 | ND |
| 四溴二苯醚 | - | mg/kg | 5 | ND |
| 五溴二苯醚 | - | mg/kg | 5 | ND |
| 六溴二苯醚 | - | mg/kg | 5 | ND |
| 七溴二苯醚 | - | mg/kg | 5 | ND |
| 八溴二苯醚 | - | mg/kg | 5 | ND |
| 九溴二苯醚 | - | mg/kg | 5 | ND |
| 十溴二苯醚 | - | 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。

IEC 62321系列等同于 EN 62321系列

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586

(2) 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。

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法: 参考滴定法,IEC 62321-4:2013+AMD1:2017,IEC 62321-5:2013和IEC 62321-7-1:2015,采 用ICP-OES和UV-Vis进行分析。

| 测试项目 | 限值 | <u>单位</u> | <u>MDL</u> | <u>001</u> | <u>002</u> |
|--------------|------|-----------|------------|------------|------------|
| 镉 (Cd) | 100 | mg/kg | 2 | ND | ND |
| 铅(Pb) | 1000 | mg/kg | 2 | | ND |
| 汞 (Hg) | 1000 | mg/kg | 2 | ND | ND |
| 铅 (Pb) | 0.1 | % | - | 93.88▲ | |
| 六价铬(Cr(VI))▼ | - | µg/cm² | 0.10 | ND | ND |

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321系列

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID.FSP LANG ID:12586

(2) ▼ = 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;



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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,样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

(3) ▲根据客户提供的声明,编号001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(如铅含量等于或大于85%的铅基合金焊料)。 除非另有说明,此报告结果仅对测试的样品负责。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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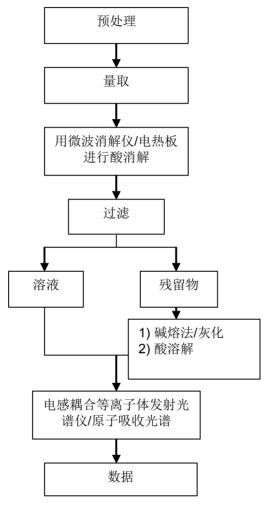
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附件

元素(IEC62321) 测试流程图

1)样品按照下述流程被完全消解





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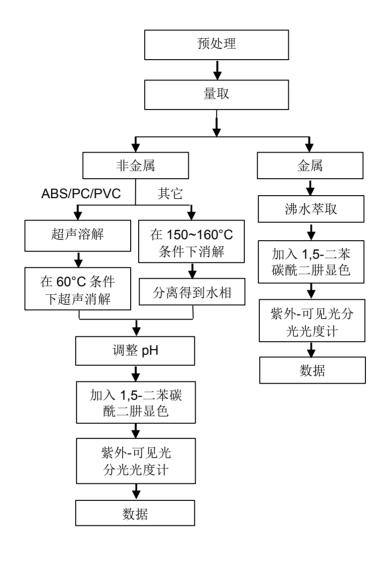


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附件

六价铬测试流程图





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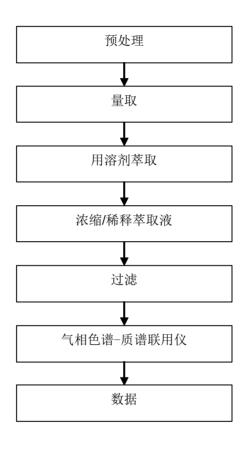


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附件

PBBs/PBDEs 测试流程图





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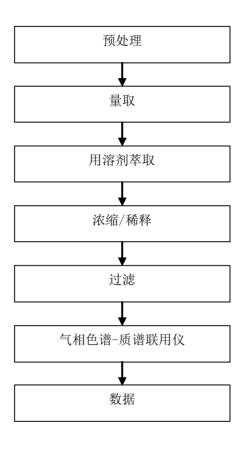


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Phthalates 测试流程图





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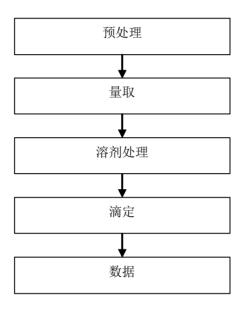


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滴定测试流程图





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样品照片:







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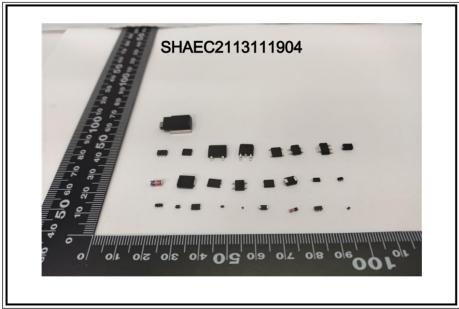
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