

No. SHAEC1806747806

日期: 2018年04月23日 第1页,共12页

深圳市普诺实业有限公司 深圳市福田区华强北路深纺大厦B座1803

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: SP18-010365 - SH

客户参考信息: 塑封料:白胶:引线/框架:GPP,SKY,OJ芯片:锡锭:油墨:焊片/焊膏:成品二

极管(轴向式、贴片式、桥式、TO式)

样品接收日期: 2018年04月08日

测试周期: 2018年04月08日 - 2018年04月16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

结论: 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

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

永海鸭

Helen Liu 刘海鹏 批准签署人

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t E&E (86-21) 61402553 f E&E (86-21) 64953679 t HL (86-21) 61402594 f HL (86-21) 61156899



#### 测试报告 No. SHAEC1806747806 日期: 2018年04月23日 第2页.共12页

测试结果:

#### 测试样品描述:

样品编号	SGS样品ID	描述
SN1	SHA18-067478.001	银色芯片
SN2	SHA18-067478.002	银色液体
SN3	SHA18-067478.003	黑色固体
SN4	SHA18-067478.004	白色液体
SN5	SHA18-067478.005	铜色金属
SN6	SHA18-067478.006	银色金属
SN7	SHA18-067478.007	银色金属

#### 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, AAS, UV-Vis和GC-MS进行分析。

<u>测试项目</u>	限值	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
镉(Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2	ND	ND	ND
汞(Hg)	1000	mg/kg	2	ND	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND	ND
一溴联苯	-	mg/kg	5	ND	ND	ND
二溴联苯	-	mg/kg	5	ND	ND	ND
三溴联苯	-	mg/kg	5	ND	ND	ND
四溴联苯	-	mg/kg	5	ND	ND	ND
五溴联苯	-	mg/kg	5	ND	ND	ND
六溴联苯	-	mg/kg	5	ND	ND	ND
七溴联苯	-	mg/kg	5	ND	ND	ND
八溴联苯	-	mg/kg	5	ND	ND	ND
九溴联苯	-	mg/kg	5	ND	ND	ND



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<u>测试项目</u>	<u>限值</u>	<u>单位</u>	MDL	<u>001</u>	<u>002</u>	<u>003</u>
十溴联苯	_	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND	ND	ND
一溴二苯醚	_	mg/kg	5	ND	ND	ND
二溴二苯醚	-	mg/kg	5	ND	ND	ND
三溴二苯醚	-	mg/kg	5	ND	ND	ND
四溴二苯醚	-	mg/kg	5	ND	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND	ND
十溴二苯醚	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND	ND	ND
测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>004</u>		
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	-	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		
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		



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<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>004</u>
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

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:125863 7,25

- (2) 2015年6月4号发表在欧盟官方杂志(官方公报)上的RoHS指令(EU) 2015/863 附录II限值中还包括邻苯 二甲酸酯BBP,DBP,DEHP和DIBP。新的指今限制了电子电器产品的每一个均一材质中邻苯二甲酸酯含 量不得超过0.1%。
- (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。
- (4) DEHP, BBP, DBP 和 DIBP的限制不适用于2019年7月22日前投放市场的电缆及电子电气产品中用于维 修、重复利用、功能更新及容量提升的备用配件以及2021年7月22日前投放市场的医疗器械,包括体外医 疗器械,监控仪表,包括工业监测和控制仪器。
- (5) DEHP、BBP 和 DBP的限制不适用于玩具产品,因为No.1907/2006 附录XVII第51条已对玩具产品中 的DEHP、BBP 和 DBP含量进行了限制。

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

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

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>005</u>	<u>006</u>	<u>007</u>
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2	79		6
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
铅 (Pb)	0.1	%	-		93.73▲	
六价铬(Cr(VI))▼	-	µg/cm²	0.10	ND	ND	ND

#### 备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。



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IEC 62321系列等同于 EN 62321系列

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- (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;
- 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006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 || 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)。

所示结果为混样品总重量中的含量

此报告数据来源于SHAEC1806747802的报告.

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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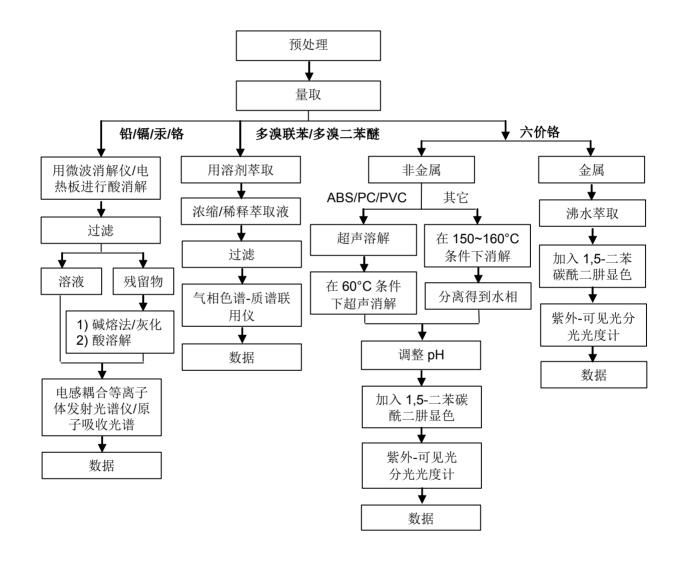
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#### 附件

## Pb/Cd/Hq/Cr<sup>6+</sup>/PBBs/PBDEs 测试流程图

- 1) 分析人员: 金叶/徐刚/杨小龙/宋珂静
- 2) 项目负责人:施青/马永存/徐亮/王晓艳
- 3) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。





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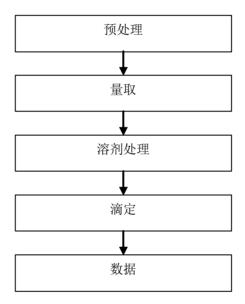
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附件

### 滴定测试流程图

1) 分析人员: 徐祥书 2) 项目负责人: 王保群





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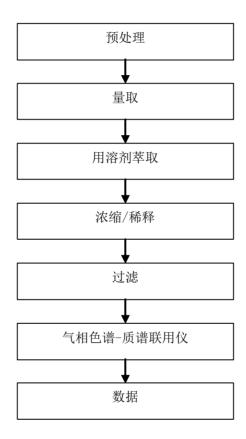
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附件

### Phthalates 测试流程图

1) 分析人员: 高仰景 2) 项目负责人: 黄婷





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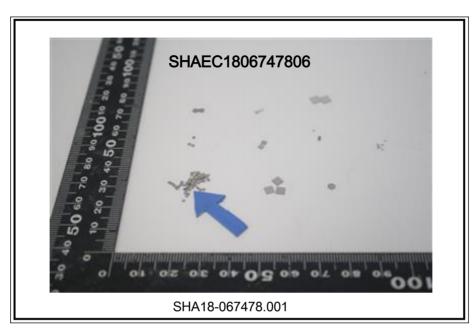
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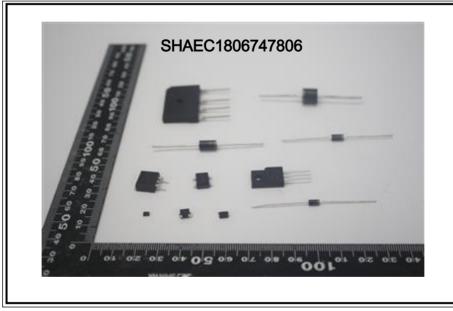


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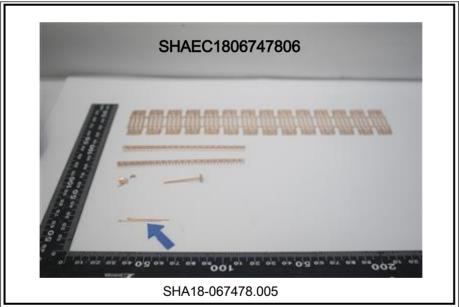
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