

测试报告

No. SHAEC2118361416

日期: 2021年09月10日 第1页,共15页

苏州固得电子股份有限公司
中国江苏苏州市通安开发区通锡路31号

以下测试之样品是由申请者所提供及确认: KBJ无卤产品

SGS工作编号: SP21-026971 - SUZ
型号: KBJ
客户参考信息: GBJL,KBJL,KBJ,GBJ,GBL,KBF,GBU,KBU,KBP,KBPC,KBL 无卤产品
主要成分: 铜,锡,环氧
样品接收日期: 2021年08月26日
测试周期: 2021年08月26日 - 2021年09月09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)、邻苯二甲酸丁苯酯(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

Carol Luo 罗萍
批准签署人

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SHAEC2118361416



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Testing Center - Client Responsibility

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测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	SHA21-183614.021	黑色本体
SN2	SHA21-183614.022	银色镀层
SN3	SHA21-183614.023	银色底材
SN4	SHA21-183614.024	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	限值	单位	MDL	021	024
镉(Cd)	100	mg/kg	2	ND	
铅(Pb)	1000	mg/kg	2	5028 [▲]	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	



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测试报告

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测试项目	限值	单位	MDL	021	024
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	
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:1258637,25

(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。

(3)▲根据客户提供的声明, 编号021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)。

(4)▲根据客户提供的声明, 编号021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)-II]: 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。

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和IEC 62321-7-1:2015, 采用ICP-OES和UV-Vis进行分析。

测试项目	限值	单位	MDL	023
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	11
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm ²	0.10	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。

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和IEC 62321-7-1:2015, 采用ICP-OES和UV-Vis进行分析。

测试项目	限值	单位	MDL	022
镉(Cd)	100	mg/kg	10	ND
铅(Pb)	1000	mg/kg	10	37
汞(Hg)	1000	mg/kg	10	ND
六价铬(Cr(VI))▼	-	µg/cm ²	0.10	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:1258637,25

(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。

卤素

测试方法: 参照EN 14582: 2016方法测定, 采用IC进行分析。

测试项目	单位	MDL	021
氟(F)	mg/kg	50	ND
氯(Cl)	mg/kg	50	ND
溴(Br)	mg/kg	50	ND
碘(I)	mg/kg	50	ND



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红磷

测试方法: SGS内部方法(SHTC- CHEM- SOP -342-T), 采用ICP-OES和热裂解GC-MS进行分析。

测试项目	单位	MDL	021
红磷	mg/kg	500	ND

备注:

阳性测试结果基于最坏情况考虑, 并经热裂解GC-MS确认。

全氟辛烷磺酸及其衍生物(PFOS)和全氟辛酸(PFOA)及其盐

测试方法: 参考 CEN/TS 15968: 2010方法, 采用HPLC-MS进行分析。

测试项目	CAS NO.	单位	MDL	021
全氟辛烷磺酸 (PFOS) ^	1763-23-1	mg/kg	10	ND
全氟辛酸 (PFOA) 及其盐+	-	mg/kg	10	ND

备注:

- (1) ^ 全氟辛烷磺酸 (PFOS) 包含 PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA (CAS No.:251099-16-8) 和 POSF (CAS No.: 307-35-7)
- (2) PFOA 及其盐+是指其酸/盐, 包括全氟辛酸(CAS No.: 335-67-1), 全氟辛酸钠 (CAS No.: 335-95-5), 全氟辛酸钾 (CAS No.: 2395-00-8), 全氟辛酸银 (CAS No.: 335-93-3), 全氟辛酰氟 (CAS No.: 335-66-0) 和 全氟辛酸铵 (CAS No.: 3825-26-1)。

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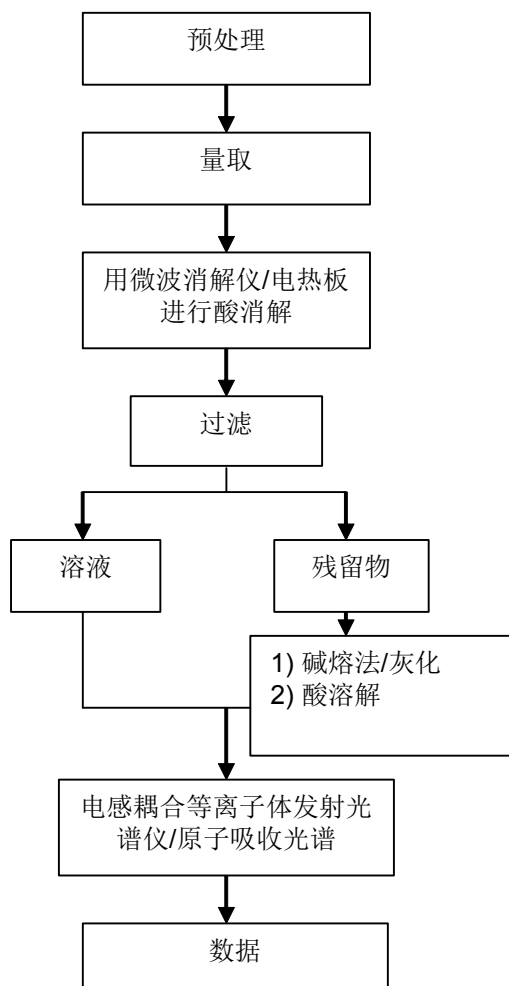


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元素(IEC62321) 测试流程图

1)样品按照下述流程被完全消解

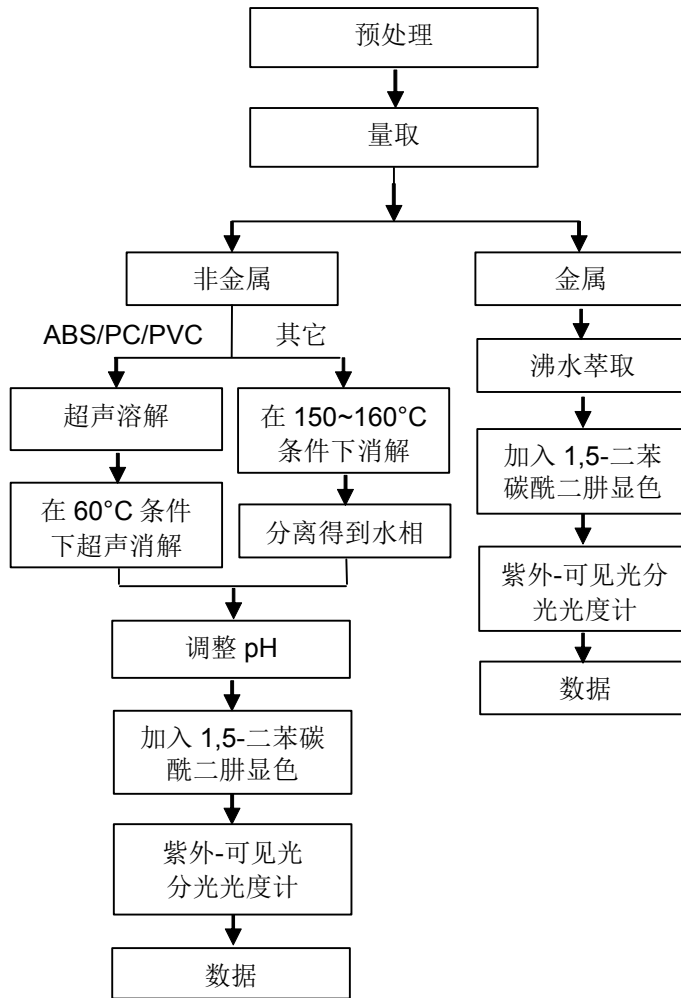


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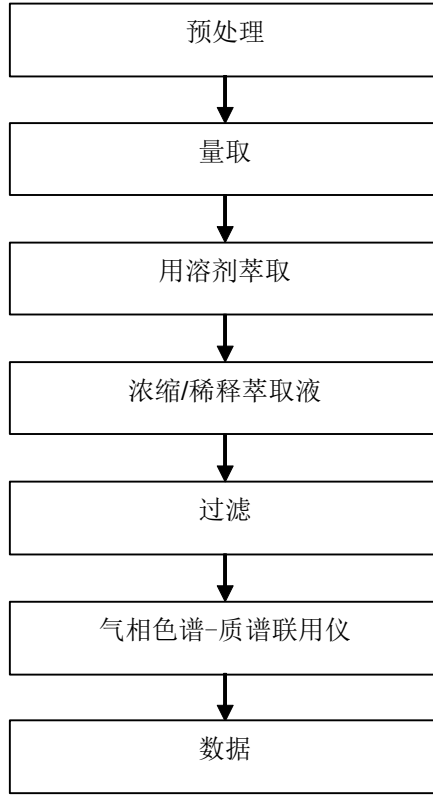
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六价铬测试流程图



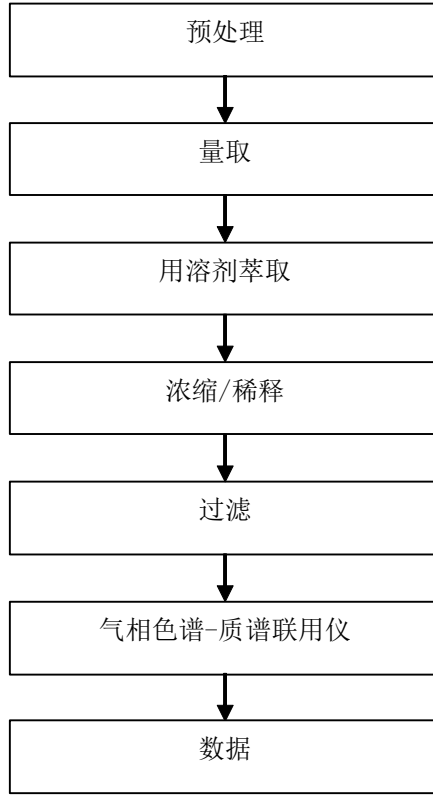
PBBs/PBDEs 测试流程图



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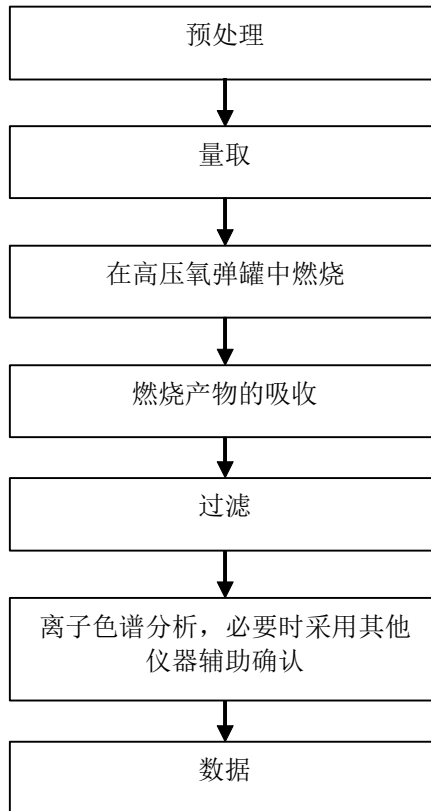
Phthalates 测试流程图



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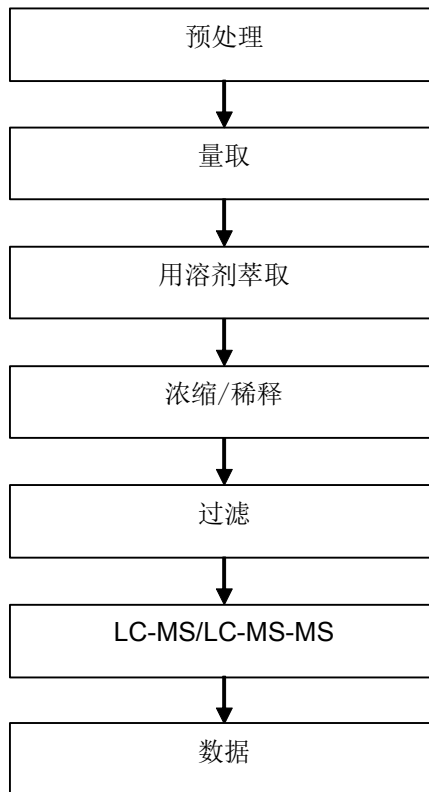
Halogen(氧弹法)测试流程图



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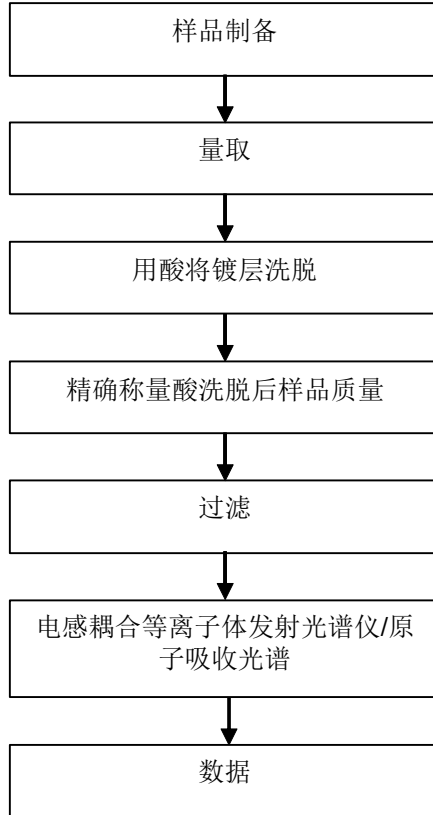
PFASs/ PFOS/PFOA 测试流程图



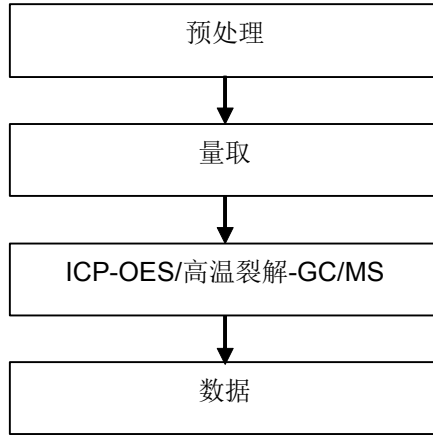
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镀层 Pb/Cd/Hg 测试流程图



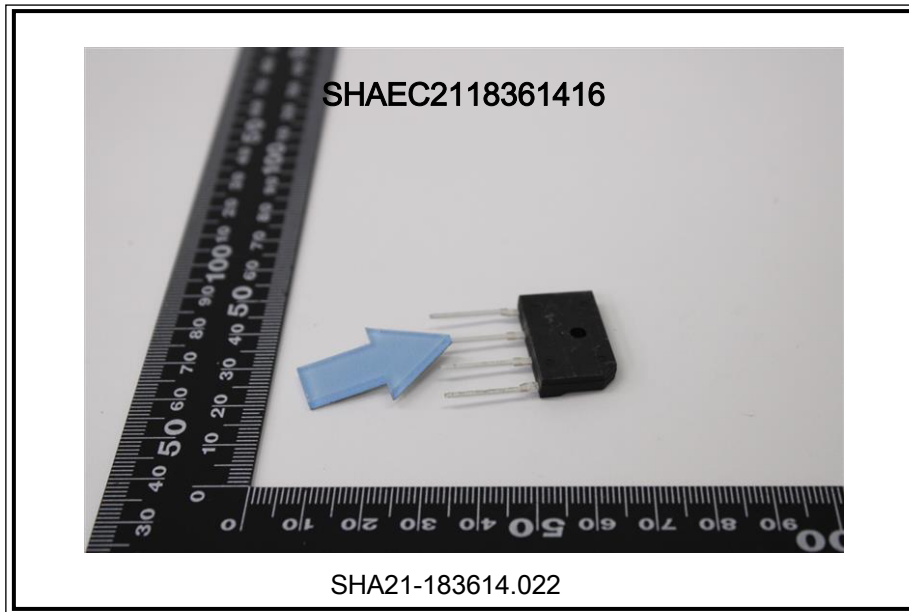
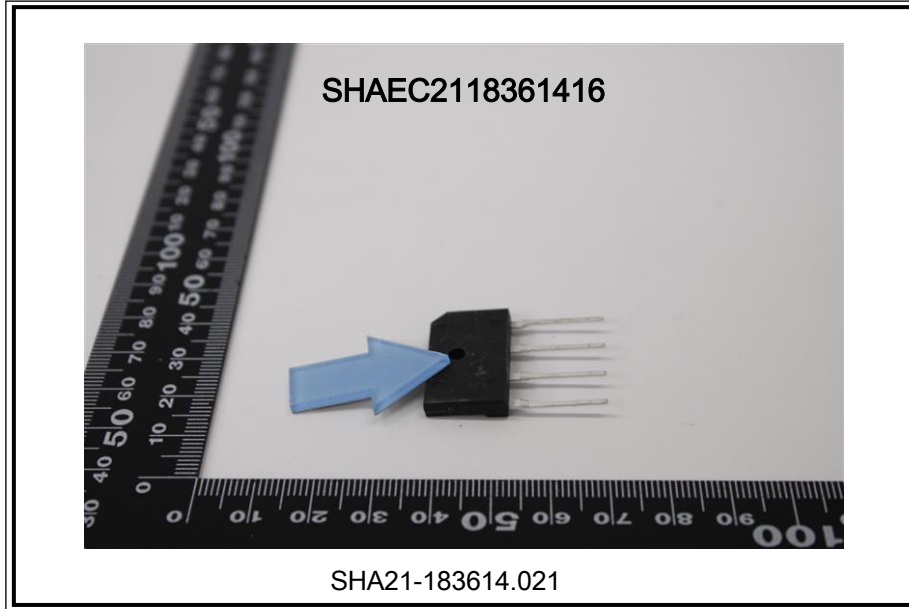
Red Phosphorus 测试流程图



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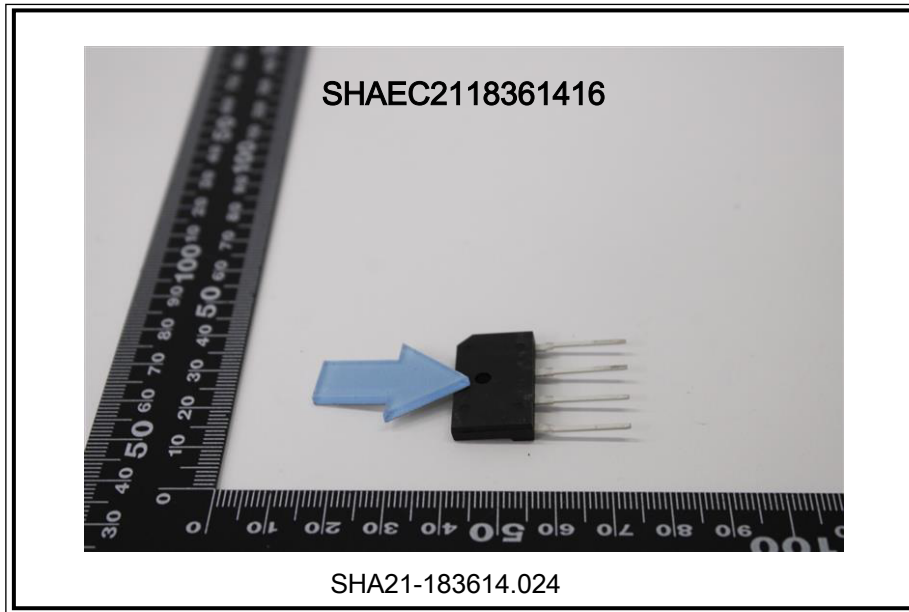
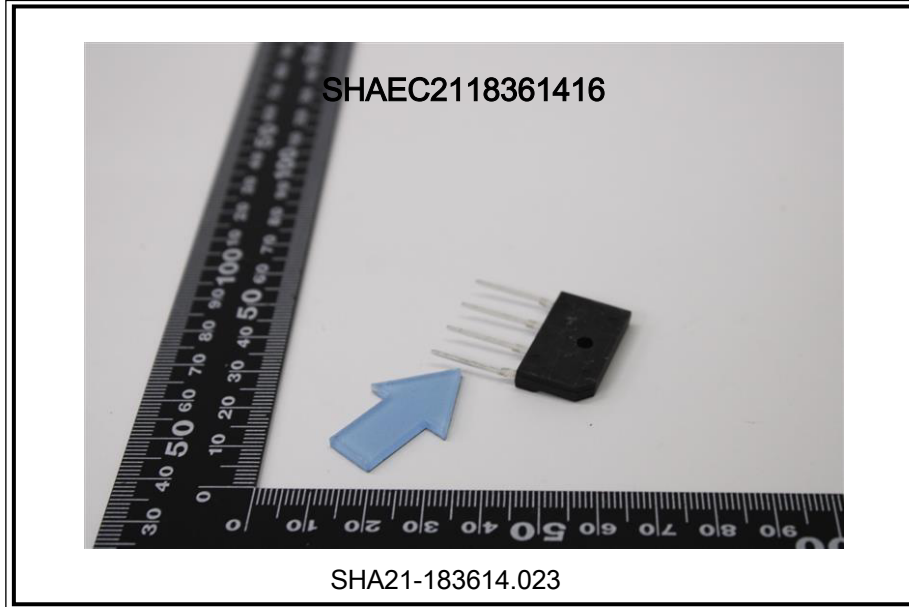
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