

## 检测报告

编号: CANEC26001247102

日期: 2026年01月21日

第1页, 共7页

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  
SOD SOD723 SOD923 SOT-23 SOT23-3L SOT23-5 SOT23-6  
SOT323 SOT363 SOT523 SOT723 SOT89 SOT143 SOT223 DFN0603  
DFN1006 DFN1610 DFN2020 DFN2510 DFN3\*3 DFN5\*6 PDFN3\*3  
PDFN5\*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 DBF 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 SOP-4 DO-213AA DO-213AB DO-218AB GF5045 TO-92  
TO-126 TO-251 eSOP-8 SOP-16 eTSSOP-20 MSOP-8 TSSOP-14  
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: SZP26-002163  
样品接收时间: 2026年01月14日  
检测周期: 2026年01月14日 ~ 2026年01月20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广州分公司  
授权签名

关正孟

Zm Guan 关正孟  
批准签署人

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SGS-CSI Standards Technical Services Co., Ltd.  
Guangzhou Branch Technical Services Co., Ltd. Chemical Laboratory

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第2页, 共7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 (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	CAN26-0012471-0001.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	72285▲
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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第3页, 共7页

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, 样品中的铅(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)]: 高熔化温度型焊料中的铅 (即铅含量超过 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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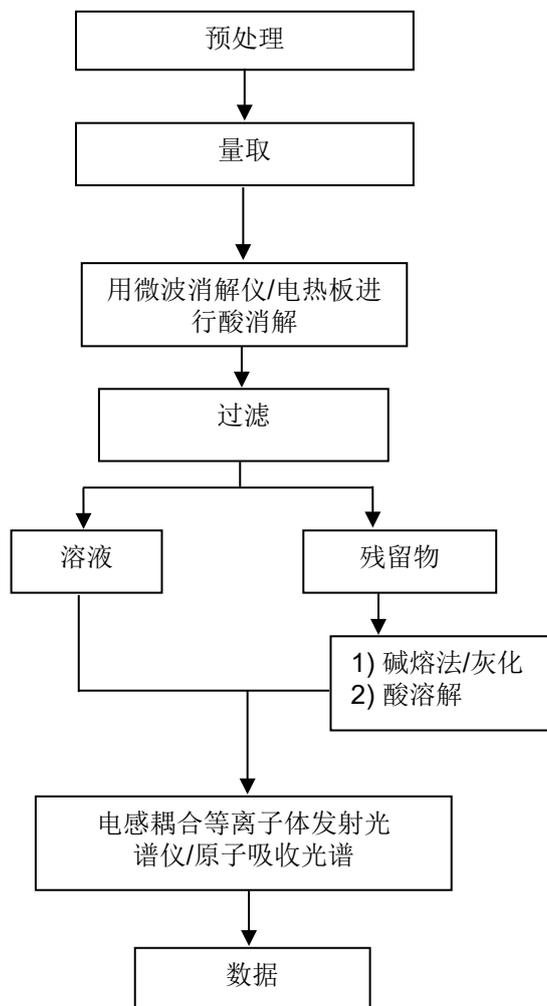
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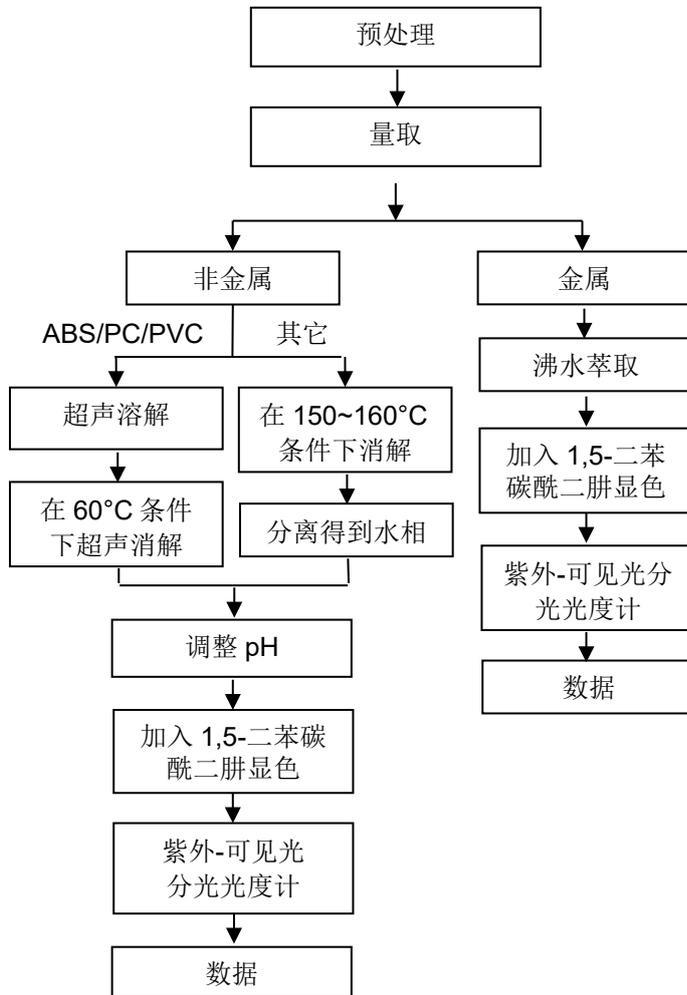
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### 元素检测流程图

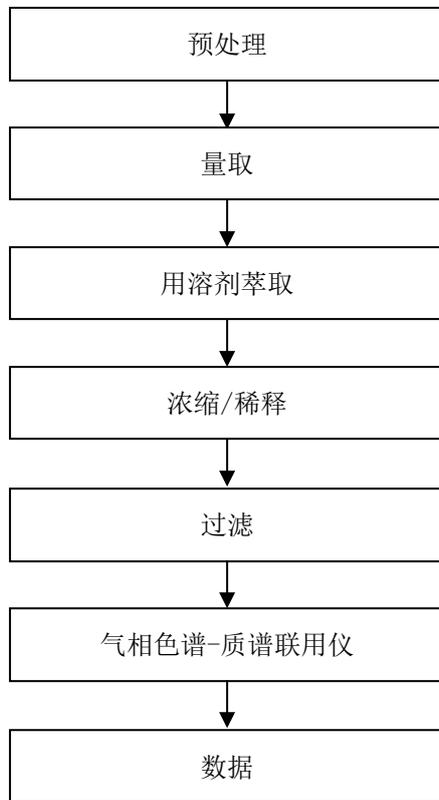
样品按照下述流程被完全消解



### 六价铬检测流程图



### PBB(s)/PBDE(s)/Phthalates 检测流程图



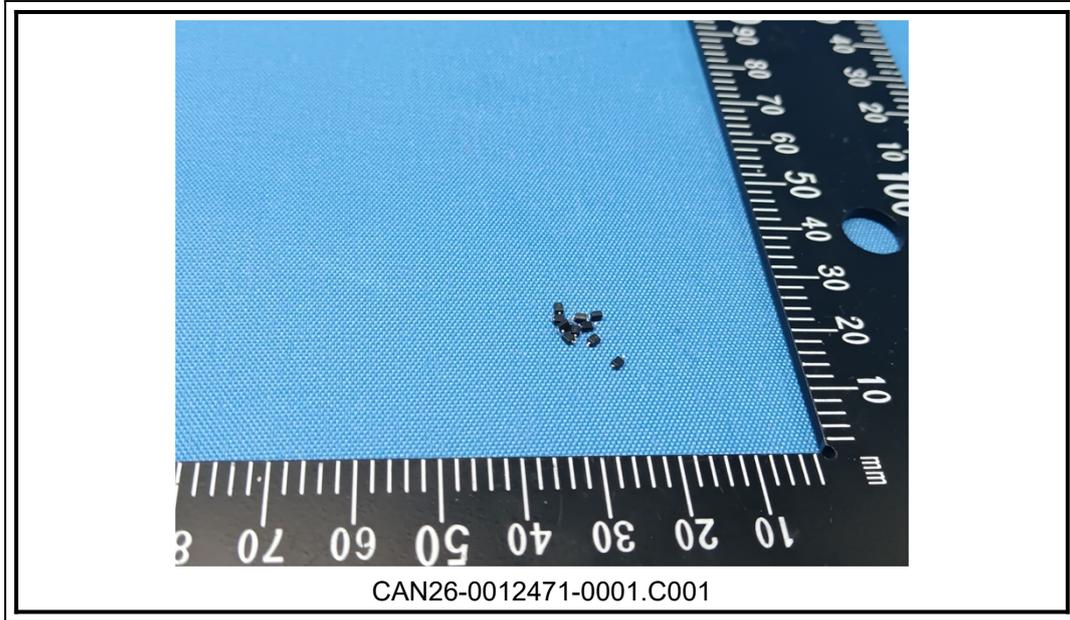
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第7页, 共7页

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