

No. CANEC2124946206

日期: 2022年01月14日 第1页,共14页

浙江里阳半导体有限公司

浙江省玉环芦浦镇漩门工业区市浙江里阳半导体有限公司

本报告取代测试报告CANEC2124946202

以下测试之样品是由申请者所提供及确认:半导体放电管

SGS工作编号:	CP21-070065 - GZ
样品接收日期:	2021年12月31日
测试周期:	2021年12月31日 - 2022年01月07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。

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Zm guan关正孟 批准签署人



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No. CANEC2124946206

日期: 2022年01月14日 第2页,共14页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN21-249462.001	银色金属引脚
SN2	CAN21-249462.002	带芯片的铜色金属
SN3	CAN21-249462.003	"半导体放电管"
SN4	CAN21-249462.004	黑色塑料

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

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+A1:2017, 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>	单位	<u>MDL</u>	<u>004</u>
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	ND
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND
多溴联苯之和(PBBs)	1,000	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)	1,000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND



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日期: 2022年01月14日 第3页,共14页

测试项目	<u>限值</u>	<u>单位</u>	MDL	<u>004</u>
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)	1,000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1,000	mg/kg	50	ND

备注:

(1)最大允许极限值引用自RoHS指令(EU) 2015/863 。
 (2) 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
 37.25

(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。

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+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, 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>001</u>	<u>002</u>
镉 (Cd)	100	mg/kg	2	ND	ND
铅 (Pb)	1,000	mg/kg	2	15	46812▲
汞 (Hg)	1,000	mg/kg	2	ND	ND
六价铬(Cr(VI))▼	-	µg/cm²	0.10	ND	ND
多溴联苯之和(PBBs)	1,000	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



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日期: 2022年01月14日 第4页,共14页

测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	
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)	1,000	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	
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 。

(2) 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 37,25

(3) ▼=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。

<u>卤素</u>

测试方法: 参考EN 14582:2016,用 IC分析。

测试项目	<u>单位</u>	<u>MDL</u>	<u>003</u>
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND



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测试项目	单位	MDL	<u>003</u>
碘 (I)	mg/kg	50	ND

AfPS GS 2019:01 PAK-多环芳香烃

测试方法: 参考AfPS GS 2019:01 PAK测试,采用 GC-MS进行分析。

测试项目	CAS NO.	<u>单位</u>	MDL	<u>003</u>
萘 (NAP)	91-20-3	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
蒽 (ANT)	120-12-7	mg/kg	0.1	ND
荧蒽 (FLT)	206-44-0	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
䓛 (CHR)	218-01-9	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	205-99-2	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	205-82-3	mg/kg	0.1	ND
苯并 (k)荧蒽 (BkF)	207-08-9	mg/kg	0.1	ND
苯并(a)芘 (BaP)	50-32-8	mg/kg	0.1	ND
苯并(e)芘 (BeP)	192-97-2	mg/kg	0.1	ND
茚苯(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)苝(二萘嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND
4项多环芳香烃总和(菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧	-	mg/kg	-	ND
蒽 (FLT))				
15项多环芳香烃总和	-	mg/kg	-	ND



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日期: 2022年01月14日 第6页,共14页

AfPS(德国产品安全委员会):多环芳香烃的要求

	1类 2类				类
参数	设计意图为放入口 中的材料,或与皮 肤长期接触(超过 30秒)的材料用于	不属于第1类, 见 ^d 与皮肤长期 秒)或短期重复	l接触(超过 30	不属于第1和23 可预见与皮 (不超过3	
(mg/kg)	-2009/48/EC 定 义的玩具,或 -供3岁以下儿童 ^{a,b}	a .供儿童 使用的产品	b.其他产品	a .供儿童 使用的产品	b.其他产品
	使用。	(C/1113) H		(C/1113/ HI	
苯并(a)芘 (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并 (a) 葱 (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并 (k)荧葱 (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
䓛 (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)苝(二萘嵌苯) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚苯(1,2,3-c,d)芘 (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲 (PHE),芘 (PYR),蒽 (ANT),荧蒽 (FLT)	<1(总和)	<5(总和)	<10(总和)	< 20 (总和)	< 50 (总和)
萘 (NAP)	< 1	< 2		< '	10
15 PAH之和	<1	< 5	< 10	< 20	< 50

注释:

a儿童是指法定年龄未满 14 周岁的人。

^b供儿童使用包括儿童的主动接触或被动接触。

。"短期重复接触"的定义摘自 REACH 附录 XVII 第 50 条修正案 ((EC) No. 1272/2013)。

^d 根据德国产品安全法(ProdSG)(第一章第 2 条第 28 款)的定义,"可预见的使用"是指将产品投放市场的人无意 但可以合理预见的方式使用产品。

备注:

德国产品安全委员会(AfPS)于 2020 年 4 月 10 日发布了关于多环芳香烃(PAHs)的新文件(AfPS GS 2019:01 PAK),该文件将于 2020 年 7 月 1 日起用于 GS-MARK 认证。

全氟辛酸(PFOA)及其盐 & 全氟辛烷磺酸 (PFOS)及其衍生物

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



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日期: 2022年01月14日 第7页,共14页

测试项目	CAS NO.	<u>单位</u>	MDL	<u>003</u>
全氟辛酸 (PFOA)及其盐+	335-67-1	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS)^	1763-23-1	mg/kg	0.010	ND
全氟辛基磺酰胺(PFOSA)	754-91-6	mg/kg	0.010	ND
N-甲基全氟辛烷磺酰胺(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺(EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE)	1691-99-2	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS)及其衍生物	-	mg/kg	-	ND

备注:

测试报告

(1) + PFOA 及其盐包含PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) 和 APFO (CAS No.: 3825-26-1);
(2) ^ 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)

备注▲: 根据客户提供的声明,样品002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(即铅含量等于或大于85%的铅基合金焊料)。

本报告更新了样品名称。

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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Pb/Cd/Hg/Cr6+/PBBs/PBDEs 测试流程图

1) 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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Phthalates 测试流程图





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Halogen 测试流程图





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PAHs 测试流程图





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PFOA / PFOS 测试流程图





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